

# JAPAN PREVIEW

April 2021



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**WILEY**

## JAPAN PREVIEW

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## 芸術

## A Companion to Modern and Contemporary Latin American and Latina/o Art

EDITOR ALEJANDRO ANREUS, EDITOR ROBIN GREELEY, EDITOR MEGAN SULLIVAN & SERIES EDITOR DANA ARNOLD

William Paterson University; University of Connecticut; Harvard University; University of Southampton

**In-depth scholarship on the central artists, movements, and themes of Latin American art, from the Mexican revolution to the present**

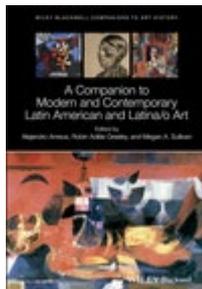
*A Companion to Modern and Contemporary Latin American and Latinx Art* consists of over 30 never-before-published essays on the crucial historical and theoretical issues that have framed our understanding of art in Latin America. This book has a uniquely inclusive focus that includes both Spanish-speaking Caribbean and contemporary Latinx art in the United States. Influential critics of the 20th century are also covered, with an emphasis on their effect on the development of artistic movements.

By providing in-depth explorations of central artists and issues, alongside cross-references to illustrations in major textbooks, this volume provides an excellent complement to wider surveys of Latin American and Latinx art. Readers will engage with the latest scholarship on each of five distinct historical periods, plus broader theoretical and historical trends that continue to influence how we understand Latinx, Indigenous, and Latin American art today.

With its comprehensive approach and informative structure, *A Companion to Modern and Contemporary Latin American and Latinx Art* is an excellent resource for advanced students in Latin American culture and art. It is also a valuable reference for aspiring scholars in the field.

SERIES: BLACKWELL COMPANIONS TO ART HISTORY

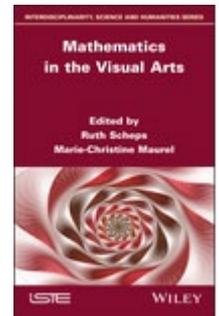
APRIL 2021 608PP  
978-1-118-47541-6 CL \$195.00 (Japan)  
Art History & Theory



## Mathematics in the Visual Arts

EDITOR RUTH SCHEPS & EDITOR MARIE-CHRISTINE MAUREL

Art and science are not separate universes. This book explores this claim by showing how mathematics, geometry and numerical approaches contribute to the construction of works of art. This applies not only to modern visual artists but also to important artists of the past. To illustrate this, this book studies Leonardo da Vinci, who was both an engineer and a painter, and whose paintings can be perfectly modeled using simple geometric curves. The world gains intelligibility through elegant mathematical frameworks -- from the projective spaces of painting to the most complex phase spaces of theoretical physics. A living example of this interdisciplinarity would be the sculptures of Jean Letourner, a specialist in both chaos sciences and carving, as evidenced in his stonework. This book also exemplifies the geometry and life of forms through contemporary works of art -- including fractal art -- which have never before been represented in this type of work.



APRIL 2021 192PP  
978-1-78630-681-4 CL \$165.00 (Japan)  
Art & Applied Arts Special Topics

## 会計学

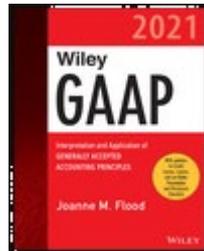
**Wiley GAAP 2021**

Interpretation and Application of Generally Accepted Accounting Principles

JOANNE M. FLOOD

SERIES: WILEY REGULATORY REPORTING

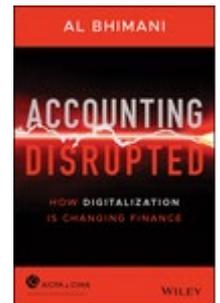
APRIL 2021 UnknownPP  
978-1-119-73617-2 PB \$149.00 (Japan)  
GAAP

**Accounting Disrupted**

How Digitalization Is Changing Finance

AL BHIMANI

Web technologies and mobile devices are driving enterprises to embark on a new wave of digitalization that is reshaping business and the global economy. Modes of data analysis in use now enable extreme corporate agility, swift strategic re-focus and fast resource allocation decisions across many businesses. Established business fundamentals are being eclipsed including accounting expertise. Conventional financial analysis is proving ineffective in dealing with the information needs of executives in organizations facing digital transformation. In fact, accounting faces a disruption unprecedented in scale. This book shows how the new digitalization wave is impacting financial expertise and the transformation in accounting that is now essential. It will be written in a direct, straight forward style with extensive explanations and a wide range of practical illustrations and case studies.



APRIL 2021 UnknownPP  
978-1-119-72006-5 CL \$34.95 (Japan)  
Accounting Special Topics

## 農業

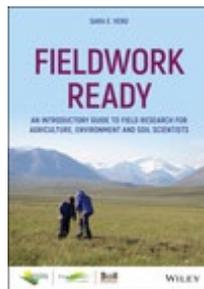
**Fieldwork Ready**

An Introductory Guide to Field Research for  
Agriculture, Environment and Soil Scientists

SARA VERO

**Discover how to plan, conduct, and interpret field research with this essential new guidebook**

Good field research is the driving force behind advancement in the agronomic, environmental, and soil sciences. Nevertheless, many undergraduate and graduate scientists have limited opportunity to develop hands-on experience before undertaking projects in the field. With *Fieldwork Ready*, Dr Sara Vero maps out the fundamental principles, methods, and management techniques that underpin this crucial practice, offering trainee researchers an accessible introduction to the world of on-site investigation.



This instructive text includes:

- Guidance on the essential aspects of environmental monitoring and soil, water, plant, and wildlife research
- Insights into the methods behind experiment planning and effective fieldwork
- Tips for team management and safety
- Explanations of how to select and correctly use soil sampling equipment

Offering new researchers a primer that is practical and easy to follow, *Fieldwork Ready* is the ideal starting point for all those beginning a career in the agricultural sciences.

SERIES: ASA, CSSA, AND SSSA BOOKS

APRIL 2021 UnknownPP  
978-0-89118-375-4 PB \$55.00 (Japan)  
Agriculture & Ecology

**Invasive Alien Species**

EDITOR THAMMINENI PULLAIAH & EDITOR  
MICHAEL IELMINI



APRIL 2021 1500PP  
978-1-119-60702-1 CL \$710.00 (Japan)  
Agriculture & Ecology

**AHMM****Constructing a Practice**

GUEST EDITOR NEIL SPILLER

Bartlett School of Architecture, London, England

AHMM is a premier international architectural practice. Established over 30 years ago, it has won numerous awards including the Stirling Prize. Through the contributions of journalists, clients, fellow professionals and academics, this *AD* issue celebrates the practice's achievements in all areas of architectural production, featuring archive material, new works and unparalleled access to the AHMM organisation, revealing new insights into their work and urban philosophies.



To get to this eminent position, the office has consistently responded in innovative and imaginative ways to the changing imperatives of art, science and economics that influence our built environment. These parameters have metamorphosed considerably since AHMM was founded, in terms of advances in digitisation, material science and changes to contract management, what constitutes sustainability, procurement routes, construction methods, collaboration and architectural education.

Above all this *AD* will explore AHMM's practice as a holistic design project in itself, in terms of building buildings, but also in using a design ethos to cope with shifts in workload and the firm's varying business activities and its administration over the years, thus providing insight for a future generation of potentially successful architectural professionals.

SERIES: ARCHITECTURAL DESIGN

APRIL 2021 136PP  
978-1-119-71748-5 PB \$39.79 (Japan)  
Building Design

**The Architect's Guide to Developing and Managing an International Practice**

BRADFORD PERKINS

Perkins Eastman and Partners, New York, New York

The practice of architecture in the United States is often viewed around the world as the gold standard of design and development. Today, firms from the US and other countries compete on a global scale for projects in the developed markets of Southeast Asia, Latin America and China. There are several key factors that have allowed for these increased market opportunities, namely the rise in communication technology and digital design technology (BIM), more competitive foreign markets, and the need to address and combat global issues such as climate change. *The Architect's Guide to Developing and Managing an International Practice* is a practical guide for architects considering or are already engaged in international work, that offers guidance on the full-spectrum of international practice; from recruiting and licensing to strategic planning and expansion. This guide offers exclusive insights and case studies from experienced architects working around the world. Written by Bradford Perkins, Co-founder and Chairman of the 1,000-person global architecture firm Perkins Eastman, this guide to international practice offers architects the fundamentals and best practices needed to expand their work on a global scale.

APRIL 2021 UnknownPP  
978-1-119-63016-6 CL \$90.00 (Japan)  
Professional Practice

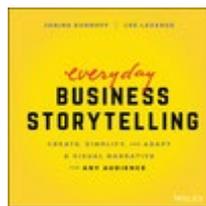
## ビジネス

**Everyday Business Storytelling**

Create, Simplify, and Adapt A Visual Narrative for Any Audience

JANINE KURNOFF & LEE LAZARUS

*Everyday Business Storytelling* arms you with a simple story framework that can be applied to *any* business communication. This practical, easy-to-skim guide helps you choreograph your ideas, data, and insights so it's easy for your audience to quickly understand what they need to *know* and *do* with the information. Grounded in theory but *smothered* in practicality, this book shows you real-world business stories--from the most high-stakes proposals to the "un-sexy" project updates--to help you become a more credible, authentic, influential communicator.



Another bonus? *Everyday Business Storytelling* is filled with clever visual techniques to humanize your story, make it memorable, and drive decision-making.

***Everyday Business Storytelling* is for people in any role, level, or industry**

This book is for busy, talented businesspeople who must churn out presentations, one-pagers, emails, voicemails, virtual meetings (or any type of business communication). *Everyday Business Storytelling* will show you how to apply a simple, repeatable story structure to anything you say, send, deliver, or present. Having a structure to kick-start any communication will save you time *and* provide a common language when collaborating with others.

APRIL 2021 288PP  
978-1-119-70466-9 PB \$35.00 (Japan)  
General & Introductory Business & Management

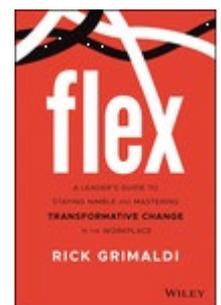
**FLEX**

A Leader's Guide to Staying Nimble and Mastering Transformative Change in the American Workplace

RICK GRIMALDI

Learn to navigate disruption and embrace change as an opportunity to grow and succeed.

Never before has it been so urgent to understand how today's trends are shaping tomorrow's labor force. As seismic shifts continue to change America's world of work in unprecedented ways, leaders must adapt to the rapidly evolving workplace using creative solutions for recruiting, engaging, and retaining a skilled workforce. Forward-thinking 'disruptors' who respond quickly to the new business environment will attract more talent, win more customers, and gain greater profits than those who make assumptions based on what has worked in the past.



*FLEX: A Leader's Guide to Staying Nimble and Mastering Transformative Change in the American Workplace* is your real-world guide to harnessing the power of change to increase employee satisfaction and secure long-term success in the marketplace. Rick Grimaldi, a labor relations attorney with decades of experience helping businesses respond effectively during pivotal moments, shares his valuable insights on the surprising and fundamental ways the world of work is reinventing itself.

Whether you lead a large corporation or own a small family business or you are the policy maker, *FLEX: A Leader's Guide to Staying Nimble and Mastering Transformative Change in the American Workplace* is your real-world blueprint for leading a profitable, healthy company into an ever-evolving future.

APRIL 2021 256PP  
978-1-119-79510-0 CL \$28.00 (Japan)  
General & Introductory Business & Management

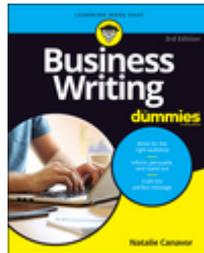
## Business Writing For Dummies

3rd Edition

NATALIE CANAVOR

### Business writing that gets results!

The ability to write well is a key part of your professional success. From reports and presentations to e-mails and Facebook posts, whether you're a marketer, customer service rep, or manager, being able to write clearly and for the right audience is critical to moving your business forward. The techniques covered in this book will arm you with the skills you need to write better business communications.



Inside:

- Planning each communication
- Editing and fine-tuning your copy
- Building your personal brand with communications
- Writing bids, proposals, reports, and more
- Recognizing key differences in your global audiences
- Advancing your career with great writing

APRIL 2021 UnknownPP  
978-1-119-69669-8 PB \$24.99 (Japan)  
BUSINESS SELF-HELP

## Get Hired Now!

How to Accelerate Your Job Search, Stand Out, and Land Your Next Great Opportunity

IAN SIEGEL

From ZipRecruiter CEO Ian Siegel, *Get Hired Now!* is an insightful and entertaining book that examines the surprising forces that shape why some people go on to *better* careers after losing their jobs in a recession while others never recover. It will be packed with cutting-edge research, concrete examples, and actionable advice for job seekers and entrepreneurs to help them accelerate their job search, stand out, and land their next great opportunity.



APRIL 2021 192PP  
978-1-119-79442-4 CL \$24.00 (Japan)  
Personal Career Development

## Digital Makeover

How L'Oréal Put People First to Build a Beauty Tech Powerhouse

BEATRICE COLLIN & MARIE TAILLARD

Get an insider's perspective into how this 110-year old world leader in beauty built on its legacy to transform itself into a digital and tech powerhouse

*Digital Makeover: How L'Oréal Put People First to Build a Beauty Tech Powerhouse* examines L'Oréal's successful people-driven digital

transformation. Professors and authors Beatrice Collin and Marie Taillard set out exactly how L'Oréal turned itself into a digital and tech powerhouse by building on its legacy to reimagine relationships inside the company, and with its customers and partners.

*Digital Makeover* comprehensively describes L'Oréal's strategy, including:

- Maintaining market leadership in the face of disruption
- Believing in the transformative power of the organization, its legacy and its people
- A social-centric approach to beauty tech, ecommerce and digital services
- The company's successful play for market dominance in China
- Case studies that showcase best practices for digital transformation across sectors

*Digital Makeover* is perfect for anyone interested in business strategy, marketing, or digital transformation, as well as businesspeople and leaders from inside and outside the beauty industry, and belongs on the shelves of anyone with an interest in organizational transformation, management, leadership and digital strategies.

APRIL 2021 240PP  
978-1-119-70610-6 CL \$25.00 (Japan)  
Business Technology



## Privacy, Regulations, and Cybersecurity

The Essential Business Guide

CHRIS MOSCHOVITIS

### PRAISE FOR PRIVACY, REGULATIONS, AND CYBERSECURITY

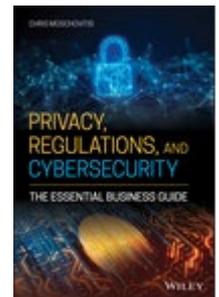
"Data is the new electricity, and every company will need it more and more to illuminate and run itself. However, in order to harness its power without getting electrocuted, every professional needs to be aware of the challenges of privacy, cybersecurity, and regulations.

This book ensures your company harnesses the light and does not blow a fuse."—**Rishad Tobaccowala**, author, *Restoring the Soul of Business: Staying Human in the Age of Data*

"In this turbulent world forever impacted by the 2020 perfect ESG+T (environment, society, governance, and technology) risk storm, Chris has delivered an incredibly readable, jampacked tour de force. This book is an eminently practical, positive and even humorous guide to all things privacy and cybersecurity that will ground you in all the essentials you need to know to survive and thrive today and tomorrow!"—**Andrea Bonime-Blanc**, JD, PhD, Board Director, Global Strategist, and author;

CEO, GEC Risk Advisory

"The more we connect the world, the more we are enmeshed in it. How can companies and other organizations take advantage of the opportunities connection creates, without exploiting or invading what should be none of their business? How can regulators see and draw the line? What can individuals do to be both open and closed? Chris Moschovitis explores these topics with great technical expertise and a strong moral sensibility. This book is, as the subtitle says, an essential business guide."—**Thomas A. Stewart**, Executive Director, National Center for the Middle Market

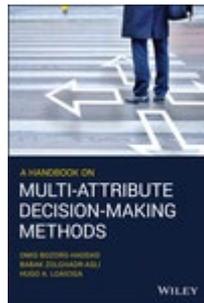


APRIL 2021 384PP  
978-1-119-65874-0 CL \$45.00 (Japan)  
Business Technology

## A Handbook on Multi-Attribute Decision-Making Methods

OMID BOZORG-HADDAD, BABAK ZOLGHADR-ASLI & HUGO A. LOÁICIGA

This book describes multi-attribute decision-making (MADM) methods and provides stepwise guidelines in applying those methods. The authors describe the most important MADM methods, with an assessment of their performance in solving multiple problems encompassing several fields. This book contains 12 chapters, and an additional appendix on weight assignment methods. Chapter 1 provides an overview of decision-making and its fundamental concepts. Each of chapters 2 through 12 is devoted to a separate MADM method. In total, some 20 MADM methods are presented in the book. The chapters are arranged according to pedagogical purposes, so the audience can easily engage with the presented materials found in each chapter. The authors' intent is that each chapter can stand alone. To do this, they provide the audience with a brief description of the materials and methods required to cover every aspect and mathematical concepts pertinent to each presented method. Dedicated readers may go through the entire book to gain a deep understanding of MADM methods and their theoretical foundations. Others may choose specific chapters without facing any difficulty understanding their respective MADM methods. Each chapter, which describes a specific MADM method, or in some instances a family of methods, starts with a brief literature review of the methods' development, followed by a description of the its theoretical foundation. The philosophical basis of each method is reviewed and mapped to the mathematical framework of each MADM method. Lastly, a stepwise description of each method that serves as the guideline for its implementation to cope with real-world MADM problems is also presented.



SERIES: WILEY SERIES IN OPERATIONS RESEARCH AND MANAGEMENT SCIENCE

APRIL 2021 192PP  
978-1-119-56349-5 CL \$125.00 (Japan)  
Management Science / Operations Research

## Work From Anywhere

The Essential Guide to Becoming a World-class Hybrid Team

ALISON HILL, AUSTRALIA & DARREN HILL

Univerisity of Dundee

**Bring out the best in your hybrid team with this invaluable resource**

*Work from Anywhere* delivers practical strategies and actionable guidance on how to develop a high performing team and business in a remote and distributed environment. Accomplished authors, behavioural experts, and fast-growth business leaders, Alison and Darren Hill, show you how to craft business and culture strategies to bring out the best in your hybrid and remote team members by focusing on both performance and people.

You'll learn how to:

- Understand the unique psychology, methodology, and technology that makes hybrid teams excel
- Develop strategies for embedding high performance across your team, no matter where they're located
- Create rhythms and rituals to keep your team highly motivated and on task, and avoid disengagement

The ability to work from anywhere is no longer just a HR conversation, it is an Executive conversation. Perfect for business leaders working with hybrid teams, *Work from Anywhere* is also ideal for organizational development executives, cultural transition leaders, business leaders, and entrepreneurs who are responsible for ensuring that employees consistently perform at their best, regardless of location.

APRIL 2021 UnknownPP  
978-0-7303-9087-9 PB \$21.00 (Japan)  
Management / Teams

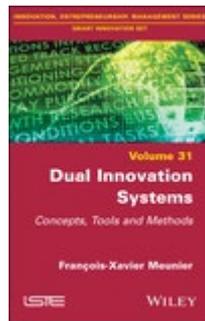
## Dual Innovation Systems

Concepts, Tools and Methods

FRANCOIS-XAVIER MEUNIER

Technical superiority is one of the keys to military domination. Thus, defense industries have supported the development of increasingly efficient systems and made significant contributions to technical progress. However, since the late 1980s, defense industries? Technological initiative has been questioned and new sources of innovation have been sought by turning to the civilian sphere. A duality was born from this marriage of defense and civil innovation which developed their synergies in order to improve the innovation process in both areas.

Dual Innovation Systems uses a systemic approach to investigate this dual approach to innovation and how it promotes improvements in the research and development processes of the defense and civilian areas. It also presents a variety of tools for measuring the performance of a dual innovation system.



APRIL 2021 256PP  
978-1-78630-612-8 CL \$165.00 (Japan)  
Creativity & Innovation Management

## Applied Risk Analysis for Guiding Homeland Security Policy and Decisions

SAMRAT CHATTERJEE, ROBERT T. BRIGANTIC & ANGELA M. WATERWORTH

**Presents various challenges faced by security policy makers and risk analysts, and mathematical approaches that inform homeland security policy development and decision support**

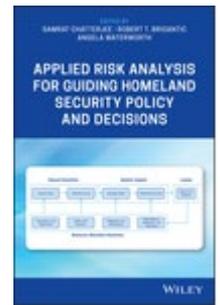
Compiled by a group of highly qualified editors, this book provides a clear connection between risk science and homeland security policy making and includes top-notch contributions that uniquely highlight the role of risk analysis for informing homeland security policy decisions. Featuring discussions on various challenges faced in homeland security risk analysis, the book seamlessly divides the subject of risk analysis for homeland security into manageable chapters, which are organized by the concept of risk-informed decisions, methodology for applying risk analysis, and relevant examples and case studies.

*Applied Risk Analysis for Guiding Homeland Security Policy and Decisions* offers an enlightening overview of risk analysis methods for homeland security. For instance, it presents readers with an exploration of radiological and nuclear risk assessment, along with analysis of uncertainties in radiological and nuclear pathways. It covers the advances in risk analysis for border security, as well as for cyber security. Other topics covered include: strengthening points of entry; systems modeling for rapid containment and casualty mitigation; and disaster preparedness and critical infrastructure resilience.

*Applied Risk Analysis for Guiding Homeland Security Policy and Decisions* is an excellent textbook and/or supplement for upper-undergraduate and graduate-level courses related to homeland security risk analysis. It will also be an extremely beneficial resource and reference for homeland security policy analysts, risk analysts, and policymakers from private and public sectors.

SERIES: WILEY SERIES IN OPERATIONS RESEARCH AND MANAGEMENT SCIENCE

APRIL 2021 UnknownPP  
978-1-119-28746-9 CL \$130.00 (Japan)  
Risk, Contingency & Crisis Management



## Organizational Behavior

For a Better Tomorrow, 2nd Edition

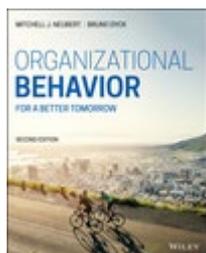
MITCHELL J. NEUBERT & BRUNO DYCK

*Organizational Behavior: For a Sustainable Tomorrow* is a unique, blended approach to the subject, combining traditional core competencies with contemporary research and innovative practices. The textbook's distinctive dual presentation integrates

"conventional" and "sustainable"

organizational behavior (OB) to help students understand how creativity, collaboration, and ethical decision-making can positively impact people, organizations, and entire communities.

This fully-updated second edition provides a balanced, real-world approach that strengthens critical thinking skills, enables students to explore the rationale for sustainable OB practices, and illustrates and how values and ethics influence business decisions in the real world. Rather than focusing only on the short-term, bottom-line approach of traditional OB, the text discusses a comprehensive range of topics, from current trends in popular media and scholarly literature, to addressing the current and long-term needs and goals of organizational stakeholders.



JUNE 2021 UnknownPP  
978-1-119-70285-6 PB \$125.79 (Japan)  
Organizational Behavior

## Mediation

Negotiation by Other Moves

ALAIN LEMPEREUR, JACQUES SALZER, AURELIEN A. COLSON & EUGENE KOGAN

ESSEC

*The Mediation Handbook* is an essential companion for anyone who is involved in mediation, whether as a mediator or as a party. The authors, who have been involved in a number of complex mediations, leverage best practices, theory, concepts and tools.

At the same time practical and academically grounded, the book distills and critically analyzes the experience of reflective practitioners in the mediation field. It is systematically empathetic in its approach, seeking to accompany the readers in mediation so that they understand the causes and consequences of conflict, as well as ways of overcoming it constructively. This book will cover:

- \* Examples from various domains of mediation
- \* Difficult situations and how to manage them productively
- \* Step-by-step approach to a mediation session
- \* Mediation traps and how to avoid them
- \* Ethics of mediation

*The Mediation Handbook* is essential reading for anyone who wants to develop a personalized approach to mediation.

APRIL 2021 264PP  
978-1-119-76842-5 CL \$37.50 (Japan)  
Conflict Resolution & Mediation (Workplace Settings)

## The WorldatWork Handbook of Total Rewards

A Comprehensive Guide to Compensation, Benefits, HR & Employee Engagement, 2nd Edition

WORLDATWORK, SCOTTSDALE

**Equip yourself to manage, motivate, compensate, and reward everyone in this workplace revolution**

The future of work is here. From the shift to Millennials and Gen Z in the workforce to the advent of the Fourth Industrial Revolution and the Gig Economy, the world of work and rewards has significantly changed since the initial *WorldatWork Handbook* was published. Human resources and total rewards professionals need tools to equip them to manage a changing workforce. This completely revised second edition addresses the challenging and disruptive issues facing employers today and tomorrow.



*The WorldatWork Handbook of Total Rewards* is the definitive authority on compensation and rewards from the leading global nonprofit organizations for professionals who are engaged in the critically important practice of total rewards. This book is a go-to resource for all business professionals and leaders who reward and create productive, committed and inspired workforces worldwide. Readers will learn the basics of rewards, along with a deep dive and high-level view of how rewards programs enable organizations to deliver on their brand promises and perform at their optimal level.

Technical enough for specialists but broad in scope for managers and HR generalists, this well-rounded resource belongs on the desk of anyone interested in organizational effectiveness. An indispensable tool for understanding and implementing the total rewards concept, *The WorldatWork Handbook of Total Rewards, Second Edition* is the key to designing programs and practices that ensure employee engagement and organizational success.

APRIL 2021 416PP  
978-1-119-68244-8 CL \$95.00 (Japan)  
TRAINING & DEVELOPMENT

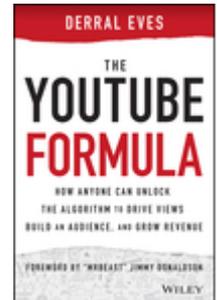
## The YouTube Formula

How Anyone Can Unlock the Algorithm to Drive Views, Build an Audience, and Grow Revenue

DERRAL EVES

**Learn the secrets to getting dramatic results on YouTube**

Derral Eves has generated over 49 billion views on YouTube and helped 22 channels grow to one million subscribers from zero. In *The YouTube Formula: How Anyone Can Unlock the Algorithm to Drive Views, Build an Audience, and Grow Revenue*, the owner of the largest YouTube how-to channel provides the secrets to getting the results that every YouTube creator and strategist wants. Eves will reveal what readers can't get anywhere else: the inner workings of the YouTube algorithm that's responsible for determining success on the platform, and how creators can use it to their advantage.



Full of actionable advice and concrete strategies, this book teaches readers how to:

- Launch a channel
- Create life-changing content
- Drive rapid view and subscriber growth
- Build a brand and increase engagement
- Improve searchability
- Monetize content and audience

Replete with case studies and information from successful YouTube creators, *The YouTube Formula* is perfect for any creator, entrepreneur, social media strategist, and brand manager who hopes to see real commercial results from their work on the platform.

APRIL 2021 352PP  
978-1-119-71602-0 CL \$25.00 (Japan)  
Marketing & Sales

## Tiny Noticeable Things

### The Secret Weapon to Making a Difference

ADRIAN WEBSTER

TNTs are Tiny Noticeable Things. They are all the little things that people don't need to do, but do do. They may be tiny but they are highly explosive. They create the biggest longest lasting pictures in people's minds, they show how much you care, they make and break relationships, yet they cost nothing.

They are the difference between a four and five-star customer experience; the difference between a manager and a leader; the difference between a team that's floundering and a team that's flying. They are the difference between a great place to work and a not so great place.

They could be as small as remembering a person's first name, recalling if a customer prefers their coffee with or without milk, or perhaps a handwritten note of recognition to a team member. Tiny, often overlooked simple things that have the potential to blow people away and bring about profound change. The affect these little engagers can have is quite phenomenal.

Their explosive power comes from the fact that they are out of the blue, unexpected acts of kindness. They are those extra mile steps that people take for each other that go beyond expectations. Their impact is so much so that they are able to penetrate straight through the conscious mind and gain fast-track access to the subconscious, where they detonate - triggering deep, dormant emotions.

Used effectively, they put smiles on faces, light up rooms and make people's day. If you are looking to inspire teams, put customers at the heart of everything you do, and stay ahead of the competition - *Tiny Noticeable Things: The Secret Weapon to Making a Difference* will show you how. Never underestimate the power of the TNTs!

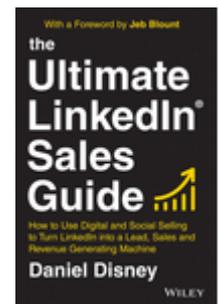
APRIL 2021 256PP  
978-1-119-78089-2 PB \$24.95 (Japan)  
Sales Management

## The Ultimate LinkedIn Sales Guide

### How to Use Social and Digital Selling to Turn LinkedIn into a Lead, Sales and Revenue Generating Machine

DANIEL DISNEY

*The Ultimate LinkedIn Sales Guide* is the go-to book and guide for utilizing LinkedIn to sell. It will cover all aspects of social and digital selling, covering everything from building the ultimate LinkedIn profile, using the searching functions to find customers, sending effective LinkedIn messages (written, audio & video), creating great content that generates sales, all the latest tips and tricks, strategies and tools.



With the impact of COVID, remote working has become big, and so has the use of digital/virtual sales tools. More sales teams want and need to understand how to use social media platforms like LinkedIn to sell, and most do not use it properly. In *The Ultimate LinkedIn Sales Guide* you will learn:

- The 4 Pillars of Social Selling Success
- How to create the Ultimate LinkedIn Profile
- How to Leads from LinkedIn
- Managing Accounts & Building Relationships
- The Best Social Selling Tools

*The Ultimate LinkedIn Sales Guide* is a must read for anyone wishing to utilise LinkedIn to improve sales.

APRIL 2021 256PP  
978-1-119-78788-4 CL \$24.95 (Japan)  
Sales Management

## Social Media For Small Business

Marketing Strategies for Business Owners

FRANZISKA ISELI, AUSTRALIA

Discover how social media can transform your business and help you attract more customers

*Social Media For Small Business* delivers a step-by-step guide to unlocking the potential of social media to grow your business. Award-winning author and entrepreneur Franziska Iseli walks you through how to use Facebook, LinkedIn, Instagram, YouTube, Twitter, and Pinterest to market your small-to medium-sized business. The book provides you with:



- Effective marketing strategies to get more out of your social media efforts.
- Systems to bring structure into your entire marketing approach.
- Tools to make your brand irresistible across your customer touchpoints.
- Case studies to highlight the application of the book's principles to the real-world
- Practical strategies you can put in place immediately to see a rapid return on investment

Perfect for busy business owners, business managers and marketing teams wanting to find new and effective marketing tools to attract more customers, *Social Media For Small Business* also belongs on the bookshelves of anyone who has difficulty with or wants to learn more about how social media can have a positive impact on their business and brand.

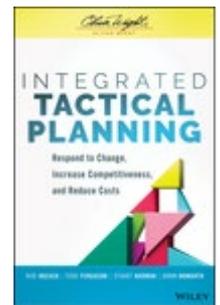
APRIL 2021 264PP  
978-0-7303-9032-9 PB \$21.00 (Japan)  
Small Business & Entrepreneurship

## Integrated Tactical Planning

Respond to Change, Increase Competitiveness, and Reduce Costs

ROD HOZACK, STUART HARMAN, TODD FERGUSON & DAWN HOWARTH

The experts at Oliver Wight provide business leaders with invaluable information for integrating the tactical planning process



*Integrated Tactical Planning* (ITP) is an essential process for regularly re-aligning product, demand, and supply plans in the short term, thereby giving the Executive team the confidence that operational activities are being well managed, unless they formally hear otherwise. This cross-functional re-planning process is vital to responding to change, increasing competitiveness, and reducing costs. *Integrated Tactical Planning: Respond to Change, Increase Competitiveness and Reduce Costs* helps senior executives devote more time to strategy and other value-added activities by deploying ITP practices throughout their organization.

Written by the leadership team at Oliver Wight, one of the world's most respected firms for effectively integrating business processes and improving business outcomes, this authoritative resource offers a contemporary view of the processes, behavior change methods, and new technology for implementing ITP processes. Throughout the text, the authors share business-proven concepts, define fundamental terms, and provide real-life examples of how Integrated Tactical Planning has been applied in various industries and businesses. Clear and accurate chapters cover essential topics including strategy alignment, product and demand plan execution, supply scheduling, performance improvement, and more.

*Integrated Tactical Planning: Respond to Change, Increase Competitiveness and Reduce Costs* is a must-have book for senior executives, leaders, managers, and planners at organizations of any size across all industries.

APRIL 2021 288PP  
978-1-119-78475-3 CL \$35.00 (Japan)  
Business & Management Special Topics

## Power Economics

An Executive's Guide to Energy Efficiency, Conservation, and Generation Strategies

ELENA CAHILL

Energy efficiency is more of a journey than a battle. It starts with small steps, taken at the local and state levels. It is a matter of identifying and then practicing good habits in our daily lives, at home and at work.

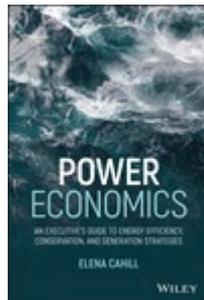
Every idea and process described in this book, if performed reasonably well, will put money in your pocket. You will not only save money; you will probably make money--and you will take important steps toward saving the planet.

*Power Economics* is a book for thoughtful people who want to cut their energy costs and diminish the harmful effects of greenhouse gas emissions.

Climate change and global warming are not speculative fantasies. They are real. They threaten communities, towns, cities, regions, nations, and continents. Even if you don't care about polar bears and penguins, the effects of melting icecaps and shifting ocean currents will transform your life and the lives of the people around you.

*Power Economics* offers practical steps and achievable strategies for reducing the destructive impact of climate change and global warming.

Yes, we need energy to live and to sustain our economies. But we don't need to burn fossil fuels and release CO<sub>2</sub> gas at levels that will result in a global catastrophe. There are reasonable alternatives to our current practices. None of the ideas that described in this book are entirely new or totally unfamiliar. They aren't extreme or bizarre. They won't require harsh or draconian measures to work. All of them follow basic rules of common sense and can be achieved at reasonable cost.



APRIL 2021 224PP  
978-1-119-70770-7 CL \$45.00 (Japan)  
Business & Management Special Topics

## Drone Technology in Architecture, Engineering and Construction

A Strategic Guide to Unmanned Aerial Vehicle Operation and Implementation

DANIEL TAL & JOHN ALTSCHULD

**A start-to-finish roadmap on incorporating drone technology into your AEC firm workflow**

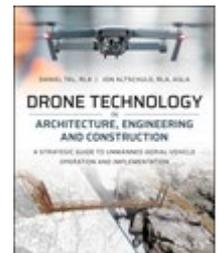
*Drone Technology in Architecture, Engineering and Construction: A Strategic Guide to Unmanned Aerial Vehicle Operation and Implementation* is the only

process-driven, step-by-step handbook to implement drone technology in AEC workflows. It provides a comprehensive and practical roadmap for architecture, engineering, and construction firms to incorporate drones into their design and construction processes.

The book offers extensive information on drone data processing, and includes guidance on how to acquire, manipulate and use the various data types produced from drone flights. The creation of three-dimensional data and visualizations are covered in-depth. *Drone Technology* reviews how to select and fly drones based on data needs and initial costs, and how to collect and maintain required flight logs, licenses, and permits.

The project examples also describe how these datasets can be integrated with 3D models of proposed conditions, photos, and other project datasets.

*Drone Technology in Architecture, Engineering and Construction* is an essential guide for a wide variety of professionals, from civil engineers to landscape architects. It provides information on professional use of drones for those just considering the technology, to those already flying drones professionally. It is an invaluable guide for anyone working in the design or construction of buildings and landscapes.



APRIL 2021 176PP  
978-1-119-54588-0 PB \$65.00 (Japan)  
General & Introductory Civil Engineering & Construction

## Advanced Multifunctional Lightweight Aerostructures

Design, Development, and Implementation

EDITOR KAMRAN BEHDINAN & EDITOR RASOOL MORADI-DASTJERDI

Offers a review of the newest methodologies for the characterization and modelling of lightweight materials and structures. *Advances in Multifunctional Lightweight Structures* offers a text that provides an in-depth analysis of the thermal, electrical and mechanical responses of multi-functional lightweight structures. The authors, noted experts on the topic, address the most recent and innovative methodologies for the characterization and modelling of lightweight materials and discuss various shell and plate theories. They present multifunctional materials and structures and offer detailed descriptions of the complex modelling of these structures.



The text is divided into three sections that demonstrate a keen understanding and awareness for multi-functional lightweight structures by taking a unique approach. The authors explore multi-disciplinary modelling and characterization alongside benchmark problems and applications, topics that are rarely approached in this field.

Written for professionals, engineers and researchers in industrial and other specialized research institutions, *Advances in Multifunctional Lightweight Structures* offers a much needed text to the design practices of existing engineering building services and how these methods combine with recent developments.

SERIES: WILEY-ASME PRESS SERIES

APRIL 2021 400PP  
978-1-119-75671-2 CL \$130.00 (Japan)  
Aeronautic & Aerospace Engineering

## Evidence and Procedures for Boundary Location

7th Edition

DONALD A. WILSON, CHARLES A. NETTLEMAN & WALTER G. ROBILLARD

Land Boundary Consultant, Newfields, New Hampshire; U.S. Forest Service

For nearly 60 years, *Evidence and Procedures for Boundary Location* has offered guidance on the principles of land boundary law and evidence for accurate boundary determination to professional surveyors, students in surveying programs, and those studying for the Fundamentals of Land Surveying licensure exam offered by NCEES. *Evidence and Procedures* presents methods for the rediscovery or recreation of real property boundaries. Through the use of historical documentation, field investigation and recreation of the original surveying methodology, the book provides the reader with acceptable and legally defensible tools for the re-establishment of land boundaries. This classic text has been updated to include new case law examples throughout, the latest in forensic investigation in the discovery of obscured evidence, and an all-new chapter on emerging technology in the field of boundary surveying. This book is an indispensable reference for land boundary surveying and a must-have for every professional land surveyor or those studying to enter the profession.

APRIL 2021 UnknownPP  
978-1-119-71939-7 CL \$156.00 (Japan)  
SURVEYING

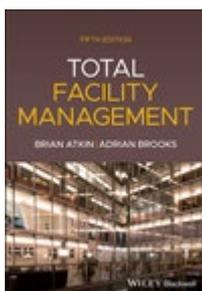
## Total Facility Management

5th Edition

BRIAN ATKIN & ADRIAN BROOKS

Professor of Construction Management and Economics; BSc, MBA, ARICS, Director, FBA, Facilities Management Consultant

Total Facility Management provides an accessible text bridging the gap between the theory of facility management and its practical implementation. Coverage is comprehensive, and this new edition has been written to strengthen the book's international appeal whilst retaining its relevance to the UK sector by careful alignment with recently published ISO Standards on management systems, sourcing and BIM, together with the forthcoming standards on FM strategy, user behaviour and FM organisations. In addition, alignment with British Standards on briefing (design and construction for operability) has been achieved. The book deals with many issues known to cause concern but which all practitioners should consider before embarking on a course of action. Throughout the book, the link between facilities management practice and an organisation's business objectives is emphasised.



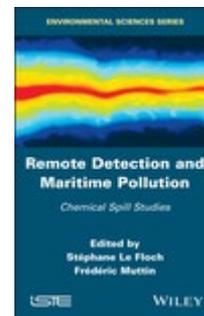
APRIL 2021 416PP  
978-1-119-70794-3 PB \$65.00 (Japan)  
FACILITIES MANAGEMENT

## Remote Detection and Maritime Pollution

Chemical Spill Studies

EDITOR STEPHANE LE FLOCH & EDITOR  
FREDERIC MUTTIN

APRIL 2021 208PP  
978-1-78630-639-5 CL \$165.00 (Japan)  
Environmental Impact



## 化学工学

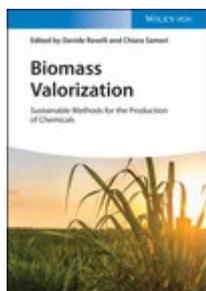
**Biomass Valorization**

Sustainable Methods for the Production of Chemicals

EDITOR DAVIDE RAVELLI & EDITOR  
CIARA SAMORI

Presenting different efficient methods to convert biomass into useful building blocks and commodity chemicals.

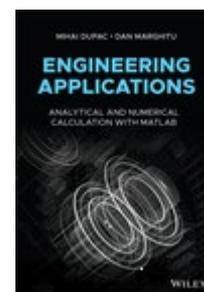
APRIL 2021 450PP  
978-3-527-34717-9 CL \$169.33 (Japan)  
Catalysis & Chemical Reaction Engineering

**Engineering Applications**

Analytical and Numerical Calculation with MATLAB

MIHAI DUPAC & DAN MARGHITU

A comprehensive text on the fundamental principles of mechanical engineering



Engineering Applications presents a comprehensive text to the fundamental principles and applications of the statics and mechanics of materials in the design of complex mechanical systems. The book uses the modern tool of MATLAB to help solve problems with numerical and analytical calculations. The authors' noted experts on the topic offer an understanding of the static behaviour of engineering structures and components considering the mechanics of materials knowledge as an essential part (most important) for their design.

The authors explore the concepts, derivations and interpretations of the general principles and discuss the creation of mathematical models and the formulation of the mathematical equations. The practical text highlights the solutions of the problems that are solved analytically and numerically using MATLAB. The figures generated with MATLAB reinforce visual learning for students (and professionals) as they study the programs.

Written for students and professional mechanical engineers, Engineering Applications helps hone reasoning skills in order to interpret data, generate mathematical equations and learn different methods of solving them for evaluating and designing engineering systems.

APRIL 2021 360PP  
978-1-119-09362-6 CL \$130.00 (Japan)  
Computer-Aided Engineering

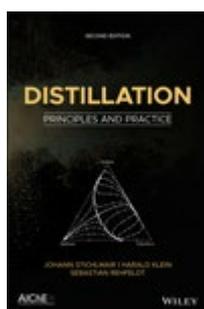
## Distillation

### Principles and Practice, 2nd Edition

JOHANN G. STICHLMAIR, HARALD KLEIN & SEBASTIAN REHFELDT

Technische University Munchen, Germany; The University of Texas at Austin, Texas

**Distillation Principles and Practice Second Edition** covers all the main aspects of distillation including the thermodynamics of vapor/liquid equilibrium, the principles of distillation, the synthesis of distillation processes, the design of the equipment, and the control of process operation.



Most textbooks deal in detail with the principles and laws of distilling binary mixtures. When it comes to multi-component mixtures, they refer to computer software nowadays available. One of the special features of the second edition is a clear and easy understandable presentation of the principles and laws of ternary distillation. The right understanding of ternary distillation is the link to a better understanding of multi-component distillation. Ternary distillation is the basis for a conceptual process design, for separating azeotropic mixtures by using an entrainer, and for reactive distillation, which is a rapidly developing field of distillation.

Another special feature of the book is the design of distillation equipment, i.e. tray columns and packed columns. In practice, empirical know-how is preferably used in many companies, often in form of empirical equations, which are not even dimensionally correct. The objective of the proposed book is the derivation of the relevant equations for column design based on first principles. The field of column design is permanently developing with respect to the type of equipment used and the know-how of two-phase flow and interfacial mass transfer.

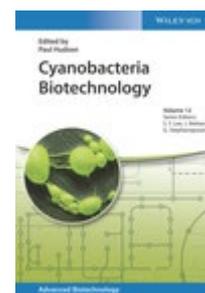
APRIL 2021 688PP  
978-1-119-41466-7 CL \$195.00 (Japan)  
PROCESS ENGINEERING

## Cyanobacteria biotechnology

EDITOR PAUL HUDSON, SERIES EDITOR SANG YUP LEE, SERIES EDITOR JENS NIELSEN & SERIES EDITOR GREGORY STEPHANOPOULOS

KAIST, Daejeon, Republik Korea; Center for Microbial Biotechnology; Massachusetts Institute of Technology, USA

**Unites a biological and a biotechnological perspective on cyanobacteria, and includes the industrial aspects and applications of cyanobacteria**



*Cyanobacteria Biotechnology* offers a guide to the interesting and useful features of cyanobacteria metabolism that keeps true to a biotechnology vision. In one volume the book brings together both biology and biotechnology to illuminate the core aspects and principles of cyanobacteria metabolism.

Designed to offer a practical approach to the metabolic engineering of cyanobacteria, the book contains relevant examples of how this metabolic "module" is currently being engineered and how it could be engineered in the future. The author includes information on the requirements and real-world experiences of the industrial applications of cyanobacteria. This important book:

- Brings together biology and biotechnology in order to gain insight into the industrial relevant topic of cyanobacteria
- Introduces the key aspects of the metabolism of cyanobacteria
- Presents a grounded, practical approach to the metabolic engineering of cyanobacteria
- Offers an analysis of the requirements and experiences for industrial cyanobacteria
- Provides a framework for readers to design their own processes

Written for biotechnologists, microbiologists, biologists, biochemists, *Cyanobacteria Biotechnology* provides a systematic and clear volume that brings together the biological and biotechnological perspective on cyanobacteria.

SERIES: ADVANCED BIOTECHNOLOGY

APRIL 2021 450PP  
978-3-527-34714-8 CL \$170.16 (Japan)  
Biochemical Engineering

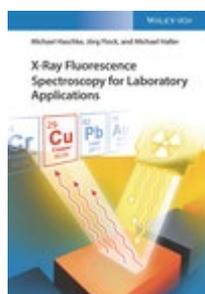
## 化学

## X-Ray Fluorescence Spectroscopy for Laboratory Applications

MICHAEL HASCHKE, JORG FLOCK & MICHAEL HALLER

**Provides comprehensive coverage on using X-ray fluorescence for laboratory applications**

This book focuses on the practical aspects of X-ray fluorescence (XRF) spectroscopy and discusses the requirements for a successful sample analysis, such as sample preparation, measurement techniques and calibration, as well as the quality of the analysis results.



*X-Ray Fluorescence Spectroscopy for Laboratory Applications* begins with a short overview of the physical fundamentals of the generation of X-rays and their interaction with the sample material, followed by a presentation of the different methods of sample preparation in dependence on the quality of the source material and the objective of the measurement. After a short description of the different available equipment types and their respective performance, the book provides in-depth information on the choice of the optimal measurement conditions and the processing of the measurement results. It covers instrument types for XRF; acquisition and evaluation of X-Ray spectra; analytical errors; analysis of homogeneous materials, powders, and liquids; special applications of XRF; process control and automation.

- An important resource for the analytical chemist, providing concrete guidelines and support for everyday analyses
- Focuses on daily laboratory work with commercially available devices
- Offers a unique compilation of knowledge and best practices from equipment manufacturers and users
- Covers the entire work process: sample preparation, the actual measurement, data processing, assessment of uncertainty, and accuracy of the obtained results

*X-Ray Fluorescence Spectroscopy for Laboratory Applications* appeals to analytical chemists, analytical laboratories, materials scientists, environmental chemists, chemical engineers, biotechnologists, and pharma engineers.

APRIL 2021 520PP  
978-3-527-34463-5 CL \$190.00 (Japan)  
Analytical Chemistry

## Digitalization in the Laboratory

KLEMEN ZUPANCIC & TEA PAVLEK

This practical book in instrumental analytics conveys an overview of important methods of analysis and enables the reader to realistically learn the (principally technology-independent) working techniques the analytical chemist uses to develop methods and conduct validation. What is to be conveyed to the student is the fact that analysts in their capacity as problem-solvers perform services for certain groups of customers, i.e., the solution to the problem should in any case be processed in such a way as to be "fit for purpose".



The book presents sixteen experiments in analytical chemistry laboratory courses. They consist of the classical curriculum used at universities and universities of applied sciences with chromatographic procedures, atom spectrometric methods, sensors and special methods (e.g. field flow fractionation, flow injection analysis and N-determination according to Kjeldahl). The carefully chosen combination of theoretical description of the methods of analysis and the detailed instructions given are what characterizes this book. The instructions to the experiments are so detailed that the measurements can, for the most part, be taken without the help of additional literature.

The book is complemented with tips for effective literature and database research on the topics of organization and the practical workflow of experiments in analytical laboratory, on the topic of the use of laboratory logs as well as on writing technical reports and grading them (Evaluation Guidelines for Laboratory Experiments).

A small introduction to Quality Management, a brief glance at the history of analytical chemistry as well as a detailed appendix on the topic of safety in analytical laboratories and a short introduction to the new system of grading and marking chemicals using the "Globally Harmonized System of Classification and Labelling of Chemicals (GHS)", round off this book.

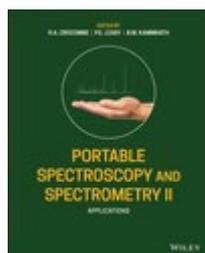
APRIL 2021 300PP  
978-3-527-34719-3 CL \$165.00 (Japan)  
Lab Automation & Miniaturization

## Portable Spectroscopy and Spectrometry 2

Applications

RICHARD A. CROCOMBE, PAULINE E. LEARY & BROOKE KAMMRATH

**The most comprehensive resource available on the many applications of portable spectrometers, including material not found in any other published work**



*Portable Spectroscopy and Spectrometry: Volume Two* is an authoritative and up-to-date compendium of the diverse applications for portable spectrometers across numerous disciplines. Whereas *Volume One* focuses on the specific technologies of the portable spectrometers themselves, *Volume Two* explores the use of portable instruments in wide range of fields, including pharmaceutical development, clinical research, food analysis, forensic science, geology, astrobiology, cultural heritage and archaeology.

*Volume Two* features contributions by a multidisciplinary team of experts with hands-on experience using portable instruments in their respective areas of expertise. Organized both by instrumentation type and by scientific or technical discipline, 21 detailed chapters cover various applications of portable ion mobility spectrometry (IMS), infrared and near-infrared (NIR) spectroscopy, Raman and x-ray fluorescence (XRF) spectroscopy, smartphone spectroscopy, and many others.

*Portable Spectroscopy and Spectrometry: Volume Two* is an indispensable resource for developers of portable instruments in universities, research institutes, instrument companies, civilian and government purchasers, trainers, operators of portable instruments, and educators and students in portable spectroscopy courses.

APRIL 2021 456PP  
978-1-119-63640-3 CL \$165.00 (Japan)  
Spectroscopy

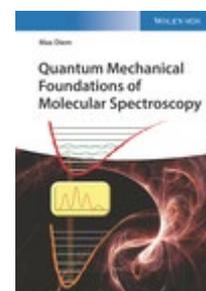
## Quantum Mechanical Foundations of Molecular Spectroscopy

MAX DIEM

Hunter College

The textbook introduces the quantum mechanical fundamentals of a multitude of spectroscopic methods that every student and practitioner need to know.

APRIL 2021 240PP  
978-3-527-34792-6 PB \$85.00 (Japan)  
Spectroscopy



## Automated Sample Preparation

Methods for GC-MS and LC-MS

HANS-JOACHIM HUBSCHMANN

Provides the tools and background for implementation of instrumental sample preparation workflow concepts for GC-MS and LC-MS analyses in the laboratory. The analytical advantages of its implementation and operational aspects during sample handling are discussed.

APRIL 2021 275PP  
978-3-527-34507-6 CL \$142.07 (Japan)  
Chemical Analysis / Sample Preparation

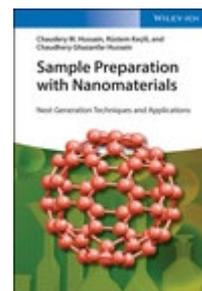
## Sample Preparation with Nanomaterials

Next Generation Techniques for Sample Preparation

CHAUDHRY MUSTANSAR HUSSAIN

New Jersey Institute of Technology (NJIT), USA

The use of nanomaterials opened new perspectives also in analytical chemistry. Despite significant advances in instrumentation, sample preparation remained a bottleneck. The special features of nanomaterials such as ultra-small size and huge surface-to-volume ratio could recently be successfully implemented in sample preparation procedures. This monograph gives a comprehensive overview of these developments: From special properties of nanomaterials over physico-chemical background up to most recent and representative applications (e.g. membranes, lab-on-a-chip echnology, and SERS), all important aspects are covered. Additional chapters on toxicity, legal and environmental aspects make this book an unique reference.



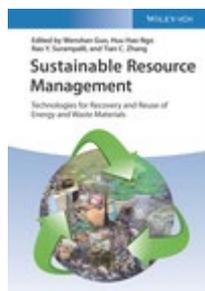
APRIL 2021 304PP  
978-3-527-33817-7 CL \$176.08 (Japan)  
Chemical Analysis / Sample Preparation

## Sustainable Resource Management

Technologies for Recovery and Reuse of Energy and Waste Materials

WENSHAN GUO, HUU HAO NGO, RAO Y. SURAMPALLI & TIAN C. ZHANG

Elucidates basic scientific principles and technological advances of current practical technologies for resource recovery from waste generated.



APRIL 2021 768PP  
978-3-527-34722-3 CL \$470.00 (Japan)  
Environmental Chemistry

## Biobased Packaging

Material, Environmental and Economic Aspects

EDITOR SALIT MOHD SAPUAN, EDITOR RUSHDAN AHMAD ILYAS & SERIES EDITOR CHRISTIAN V. STEVENS

Universiti Putra Malaysia; Universiti Putra Malaysia; Ghent University, Belgium

**An authoritative and up-to-date review of sustainable packaging development and applications**

*Biobased Packaging* explores using renewable and biodegradable materials as sustainable alternatives to non-renewable, petroleum-based packaging. This comprehensive volume surveys the properties of biopolymers, the environmental and economic impact of bio-based packaging, and new and emerging technologies that are increasing the number of potential applications of green materials in the packaging industry. Contributions address the advantages and challenges of bio-based packaging, discuss new materials to be used for food packaging, and highlight cutting-edge research on polymers such as starch, protein, polylactic acid (PLA), pectin, nanocellulose, and their nanocomposites.



In-depth yet accessible chapters provide balanced coverage of a broad range of practical topics, including life cycle assessment (LCA) of bio-based packaging products, consumer perceptions and preferences, supply chains, business strategies and markets in biodegradable food packaging, manufacturing of bio-based packaging materials, and regulations for food packaging materials. Detailed discussions provide valuable insight into the opportunities for biopolymers in end-use sectors, the barriers to biopolymer-based concepts in the packaging market, recent advances made in the field of biopolymeric composite materials, the future of bio-plastics in commercial food packaging, and more.

SERIES: WILEY SERIES IN RENEWABLE RESOURCE

APRIL 2021 560PP  
978-1-119-38107-5 CL \$200.00 (Japan)  
Industrial Chemistry

## Handbook of Pyrrolidone and Caprolactam Based Materials

Synthesis, Characterization and Industrial Applications

OSAMA M. MUSA

**Brings together, for the first time, a comprehensive review of all aspects of pyrrolidone- and caprolactam-based materials**

This comprehensive, six-volume set describes the broad technical universe of  $\hat{\text{I}}^{\text{3}}$ - and  $\hat{\text{I}}^{\text{u}}$ - lactams, reviewing in-depth the chemistry of the small lactam-based molecules, uncovering their unique properties and showing how they have enabled a myriad of commercially important applications. From synthesis, through production and into applications, this extensive work targets significant and recent trends in  $\hat{\text{I}}^{\text{3}}$ - and  $\hat{\text{I}}^{\text{u}}$ -lactam science and technology and addresses all key aspects of pyrrolidone- and caprolactam-based materials to produce a definitive overview of the field.



*Handbook of Pyrrolidone and Caprolactam Based Materials: Synthesis, Characterization and Industrial Applications* provides a detailed and modern portrait of the impact of pyrrolidone- and caprolactam-based materials on the world, as well as potential future possibilities.

*Handbook of Pyrrolidone and Caprolactam Based Materials* will appeal to industrial scientists and engineers interested in polymer development and manufacturing. It will also benefit academic researchers working in the fields of chemistry, materials science, and chemical and process engineering.

APRIL 2021 2544PP  
978-1-119-46873-8 CL \$1000.00 (Japan)  
Industrial Chemistry

## Sustainable Uses of Byproducts from Silk Processing

NARENDRA REDDY & PORNANONG ARAMWIT

This book presents a detailed description of the properties and potential applications of the silk sources, by-products and wastes. The uniqueness of this book is that it covers the by-products from start to finish. It supplies comprehensive information on the composition, structure, processability and potential applications of all the silk by-products.

This book targets people working in mulberry cultivation, silkworm rearing, silk processing and those involved in material processing with silk as the raw material. Most silk by-products are currently considered a waste, this book presents the potential applications and attracts people from research and industry. The book covers information on aspects such as materials, energy, fuel, fibers, composites, food, cosmetics and feed. Hence, the book is useful for students, researchers and professionals in a wide range of disciplines.



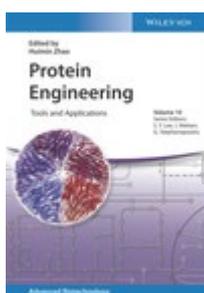
APRIL 2021 224PP  
978-3-527-34786-5 CL \$150.00 (Japan)  
Industrial Chemistry

## Protein Engineering

### Tools and Applications

EDITOR HUIMIN ZHAO, SERIES EDITOR SANG YUP LEE, SERIES EDITOR JENS NIELSEN & SERIES EDITOR GREGORY STEPHANOPOULOS

The book provides a systematic and comprehensive look at recent advances in the field, detailing the methodologies and strategies behind these approaches. This provides the reader with the distinctive advantages and disadvantages of the present methodologies and strategies in a target focused process and allows the reader to adapt and implement the strategies for new applications. The first three parts of the book are dedicated to the directed evolution, rational design and semi-rational design of proteins while the last two parts present applications in industrial and medical biotechnology.



SERIES: ADVANCED BIOTECHNOLOGY

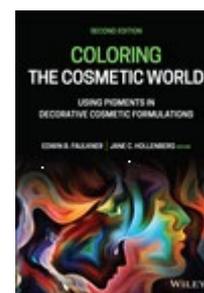
APRIL 2021 456PP  
978-3-527-34470-3 CL \$205.00 (Japan)  
Biotechnology (Chemistry)

## Coloring the Cosmetic World

### Using Pigments in Decorative Cosmetic Formulations, 2nd Edition

EDWIN B. FAULKNER & EDITOR JANE C. HOLLENBERG  
SunChemical Corp., Cincinnati, Ohio, USA

**A comprehensive resource on the regulations, applications, properties and processing of pigments used in color cosmetics, now in its second edition.**



*Coloring the Cosmetic World* is a highly practical guide to colorant selection for product formulations in the modern cosmetics and toiletries industry. Providing the essential knowledge required to successfully incorporate pigments into cosmetic formulations, this unique resource covers all essential aspects of color selection—including regulations, economics, color esthetics, and stability—as well as processing, color measurement, pigment testing, natural colorants, and more. This new edition contains carefully revised content and includes updated coverage of economic and regulatory criteria.

Drawing upon their decades of experience in the color industry, the author and editor focus on the specific color additives that are approved for use in cosmetics formulations. The book's twelve in-depth chapters include full massone representations of numerous pigments to help readers appreciate subtleties and differences in absorption pigments, effect pigments, specialty pigments, and others. Appendices contain various pigment test methods, a glossary, and an up-to-date listing of treated pigment patents. *Coloring the Cosmetic World: Using Pigments in Decorative Cosmetic Formulations, Second Edition*, is an indispensable guide for cosmetic chemists, a useful reference for purchasing agents, supply coordinators, and marketers working in the cosmetics industry, and a valuable supplementary text for undergraduate and graduate university programs in the field.

APRIL 2021 294PP  
978-1-119-55810-1 CL \$135.00 (Japan)  
Flavor, Perfume & Cosmetic Science

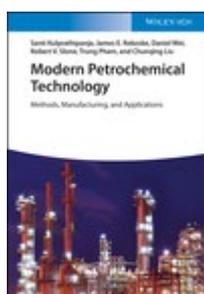
## Modern Petrochemical Technology

Methods, Manufacturing and Applications

SANTI KULPRATHIPANJA

UOP, A Honeywell Company, Des Plaines, USA

This book not only provides an overview of markets and uses for common petrochemical building blocks, but also offers a survey of the technology used to make the key petrochemical building blocks. It contains both critical information to understand how the technologies are used to produce petrochemicals, how the various petrochemicals are used, and examples and problems designed to reinforce the learning about the basic science, engineering and use of petrochemicals. It will be a useful tool for universities and for industrial training programs to further education and discovery in the technologies oriented toward the petrochemical industry.



APRIL 2021 300PP  
978-3-527-34522-9 CL \$139.32 (Japan)  
Petrochemistry / Fuel

## Innovative and Emerging Technologies for Textile Dyeing and Finishing

LUQMAN JAMEEL RATHER, AMINODDIN HAJI & MOHD SHABBIR

With the public enhanced awareness towards eco-preservation, eco-safety and health concerns, environmentally benign, nontoxic and sustainable bioresource materials produced mainly from non-food crops have revolutionized all industrial sectors particularly textile industry. In recent years, textile industries in developed countries are getting increasing interest in global interest due to the varied and changing world market conditions in terms of price, durability and fiber mixtures as well as design, colors, weight, ease of handling and product safety. The increasing environmental and health concerns owing to the use of large quantities of water and hazardous chemicals in conventional textile finishing processes lead to the design and development of new dyeing strategies and technologies. Effluents produced from these textiles wet processing industries are very diverse in chemical composition, ranging from inorganic finishing agents, surfactants, chlorine compounds, salts, total phosphate to polymers and organic products.



This aspect forced western countries to exploit their high technical skills in the advancements of textile materials for high quality technical performances, and development of cleaner production technologies for cost effective and value-added textile materials. Therefore, vast and effective research investigations have been undertaken all over the world to minimize the negative environmental impact of synthetic chemical agents through the sustainable harvest of eco-friendly bioresource materials.

The book will discuss following research developments in academic and industry:

- Improvement in dye extraction and its applications
- Impact of textile dyeing on environment
- Textile finishing by natural and ecofriendly means
- Natural dyes as environmental-friendly bioresource products

APRIL 2021 432PP  
978-1-119-71014-1 CL \$225.00 (Japan)  
Cellulose/Paper/Textile Chemistry

## Nanoparticles in Catalysis

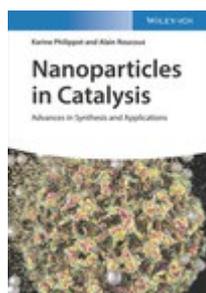
Advances in Synthesis and Applications

EDITOR KARINE PHILIPPOT & EDITOR ALAIN ROUCOUX

University of Toulouse, France

Written by an international team of leaders in the field, the book covers recent advances and new tools for the efficient synthesis of metal nanoparticles and their application in important catalytic reactions.

APRIL 2021 520PP  
978-3-527-34607-3 CL \$195.98 (Japan)  
Catalysis



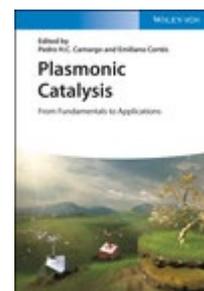
## Plasmonic Catalysis

From Fundamentals to Applications

EDITOR PEDRO H.C. CAMARGO & EDITOR EMILIANO CORTÉS

Explore this comprehensive discussion of the foundational and advanced topics in plasmonic catalysis from two leaders in the field

*Plasmonic Catalysis: From Fundamentals to Applications* delivers a thorough treatment of plasmonic catalysis, from its theoretical foundations to myriad applications in industry and academia. In addition to the fundamentals, the book covers the theory, properties, synthesis, and various reaction types of plasmonic catalysis. It also covers its applications in reactions including oxidation, reduction, nitrogen fixation, CO<sub>2</sub> reduction, and more.



The book characterizes plasmonic catalytic systems and describes their properties, tackling the integration of conventional methods as well as new methods able to unravel the optical, electronic, and chemical properties of these systems. It also describes the fundamentals of controlled synthesis of metal nanoparticles relevant to plasmonic catalysis, as well as practical examples thereof.

*Plasmonic Catalysis* covers a wide variety of other practical topics in the field, including hydrogenation reactions and the harvesting of LSPR-excited charge carriers.

Perfect for catalytic chemists, materials scientists, photochemists, and physical chemists, *Plasmonic Catalysis: From Fundamentals to Applications* will also earn a place in the libraries of physicists who seek a one-stop resource to enhance their understanding of applications in plasmonic catalysis.

APRIL 2021 400PP  
978-3-527-34750-6 CL \$166.75 (Japan)  
Catalysis

## Biocatalysis for Practitioners

Techniques, Reactions and Applications

GONZALO DE GONZALO & IVÁN LAVANDERA

This reference book originates from the interdisciplinary research cooperation between academia and industry. In three distinct parts, latest results from basic research on stable enzymes are explained and brought into context with possible industrial applications. Downstream processing technology as well as biocatalytic and biotechnological production processes from global players display the enormous potential of biocatalysts. Application of "extreme" reaction conditions (i.e. unconventional, such as high temperature, pressure, and pH value) - biocatalysts are normally used within a well defined process window - leads to novel synthetic effects. Both novel enzyme systems and the synthetic routes in which they can be applied are made accessible to the reader. In addition, the complementary innovative process technology under unconventional conditions is highlighted by latest examples from biotech industry.

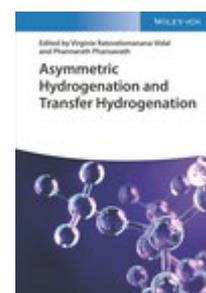
APRIL 2021 528PP  
978-3-527-34683-7 PB \$146.89 (Japan)  
Biocatalysis

## Asymmetric Hydrogenation and Transfer Hydrogenation

VIRGINIE RATOVELOMANANA-VIDAL & PHANNARATH PHANSAVATH

First book on homogeneous asymmetric hydrogenation and transfer hydrogenation, covering everything from catalyst development, reactions, and mechanisms to applications in academia and industry.

APRIL 2021 384PP  
978-3-527-34610-3 CL \$190.00 (Japan)  
Homogeneous Catalysis



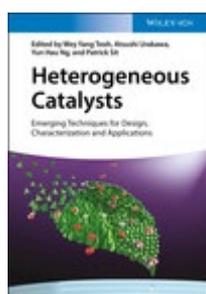
## Heterogeneous Catalysts

Advanced Design, Characterization and Applications

WEY YANG TEOH, ATSUSHI URAKAWA, YUN HAU NG & PATRICK SIT

**Presents state-of-the-art knowledge of heterogeneous catalysts including new applications in energy and environmental fields**

This book focuses on emerging techniques in heterogeneous catalysis, from new methodology for catalysts design and synthesis, surface studies and operando spectroscopies, ab initio techniques, to critical catalytic systems as relevant to energy and the environment. It provides the vision of addressing the foreseeable knowledge gap unfilled by classical knowledge in the field.



*Heterogeneous Catalysts: Advanced Design, Characterization and Applications* begins with an overview on the evolution in catalysts synthesis and introduces readers to facets engineering on catalysts; electrochemical synthesis of nanostructured catalytic thin films; and bandgap engineering of semiconductor photocatalysts. Next, it examines how we are gaining a more precise understanding of catalytic events and materials under working conditions. It covers bridging pressure gap in surface catalytic studies; tomography in catalysts design; and resolving catalyst performance at nanoscale via fluorescence microscopy. Quantum approaches to predicting molecular reactions on catalytic surfaces follows that, along with chapters on Density Functional Theory in heterogeneous catalysis; first principles simulation of electrified interfaces in electrochemistry; and high-throughput computational design of novel catalytic materials. The book also discusses embracing the energy and environmental challenges of the 21st century through heterogeneous catalysis and much more.

*Heterogeneous Catalysts: Advanced Design, Characterization and Applications* is an important book for catalytic chemists, materials scientists, surface chemists, physical chemists, inorganic chemists, chemical engineers, and other professionals working in the chemical industry.

APRIL 2021 768PP  
978-3-527-34415-4 CL \$405.00 (Japan)  
Heterogeneous Catalysis

## New Drug Development for Known and Emerging Viruses

EDITOR HELGA RÜBSAMEN-SCHAEFF, EDITOR HELMUT BUSCHMANN, SERIES EDITOR RAIMUND MANNHOLD & SERIES EDITOR JÖRG HOLENZ

Aachen, Germany; University of Dusseldorf, Ge

**Discusses how to address the need for fighting Ebola, Zika, and other human viruses by building on the successes in antiviral therapy of the past decade**

Written by leading medicinal chemists from academia and industry, this book discusses the entire field of antiviral drug discovery and development from a medicinal chemistry perspective, focusing on antiviral drugs, targets, and viral disease mechanisms. It provides an outlook on emerging pathogens such as Ebola, Zika, West Nile, Lassa, and Norovirus, and includes a chapter on the current Coronavirus pandemic.

*New Developments in Antiviral Drugs* describes the discovery and development process for different classes of viruses and targets based on the experiences from the nine human viruses for which approved drugs are on the market (HIV, HCV, Influenza, RSV, HBV, HPV, HCMV, HSV, and VZV). It covers the properties and development potential of 20 classes of currently approved antivirals, including combination drugs, and looks at novel antiviral strategies against emerging viruses.

*New Developments in Antiviral Drugs* is an important book for medicinal chemists, pharmaceutical chemists, virologists, and epidemiologists, and will be of great interest to those in the pharmaceutical industry and public health agencies.

SERIES: METHODS AND PRINCIPLES IN MEDICINAL CHEMISTRY

APRIL 2021 448PP  
978-3-527-34337-9 CL \$178.82 (Japan)  
Drug Discovery & Development

## Solid State Development and Processing of Pharmaceutical Molecules

Salts, Cocrystals, and Polymorphism

MICHAEL GRUSS

**A guide to the latest industry principles for optimizing the production of solid state active pharmaceutical ingredients**

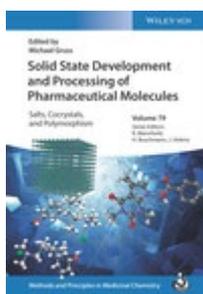
*Solid State Development and Processing of Pharmaceutical Molecules* is an authoritative guide that covers the entire pharmaceutical value chain. The authors--noted experts on the topic--examine the importance of the solid state form of chemical and biological drugs and review the development, production, quality control, formulation, and stability of medicines.

The book explores the most recent trends in the digitization and automation of the pharmaceutical production processes that reflect the need for consistent high quality. It also includes information on relevant regulatory and intellectual property considerations. This resource is aimed at professionals in the pharmaceutical industry and offers an in-depth examination of the commercially relevant issues facing developers, producers and distributors of drug substances.

Written for medicinal chemists, pharmaceutical industry professionals, pharma engineers, solid state chemists, chemical engineers, *Solid State Development and Processing of Pharmaceutical Molecules* reviews information on the solid state of active pharmaceutical ingredients for their efficient development and production.

SERIES: METHODS AND PRINCIPLES IN MEDICINAL CHEMISTRY

APRIL 2021 400PP  
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Drug Formulation & Delivery



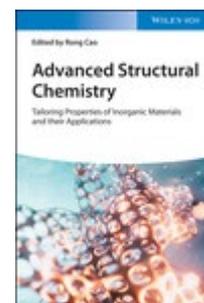
## Advanced Structural Chemistry

Tailoring Properties of Inorganic Materials and their Applications

EDITOR RONG CAO

A unique book addressing the relationship between the structure and function of matter, efficient and precise synthesis methodology, and theoretical tools for new functional clusters and porous materials.

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Inorganic Chemistry



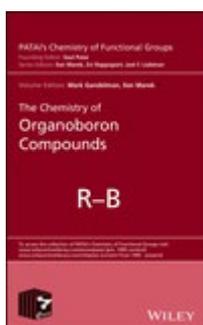
## The Chemistry of Organoboron Compounds

MARK GANDELMAN, ILAN MAREK, JOEL F. LIEBMAN & ZVI RAPPOPORT, ISRAEL

Department of Chemistry, Israel Institute of Technology, Haifa, Israel; University of Maryland, USA; The Hebrew University, Jerusalem

### The ultimate resource in organoboron chemistry

Professor Mark Gandelman and his colleagues delve deeply into the theory, structure, analysis, synthesis, and reactions of organoboron chemistry in *The Chemistry of Organoboron Compounds*. Organoborons are used heavily as highly efficient reagents in many reactions, including cross-coupling and radical reactions. The highly regarded authors have tied together organic-chemical and physico-chemical knowledge usually unavailable from a single source. The book focuses on the use of completely biodegradable "green" reagents, as opposed to environmentally hazardous heavy metal catalysts.



*The Chemistry of Organoboron Compounds* delivers comprehensive and complete information on:

- The behavior of organoboron compounds
- The use of organoboron compounds in organic synthesis
- The commercial applications of organoboron compounds

As a volume in the celebrated Patai book series, *The Chemistry of Organoboron Compounds* includes all the features that readers of that series are used to enjoying, including a comprehensive index at the back of the book.

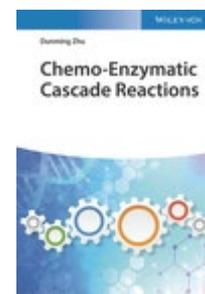
SERIES: PATAI'S CHEMISTRY OF FUNCTIONAL GROUPS

APRIL 2021 1152PP  
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Organic Chemistry

## Cooperative Biocatalytic-Chemical Cascade Reactions

DUNMING ZHU

This book will focus on biocatalytic-chemical cascade reactions and their application in the synthesis of valuable chemicals. It covers the following topics: 1) Advantages and disadvantages of traditional chemical reactions and biocatalytic reactions; 2) The three modes of chemo-enzymatic transformations: separate-pot-two-step, one-pot-two-step and one-pot-one-step; 3) The current advances of chemo-enzymatic transformations organized by the three modes and types of enzymes; 4) Retro-synthesis based on both chemical and biocatalytic transformations and the synthetic applications; 5) Perspective of this cooperative biocatalytic-chemical synthetic technology. This book systematically presents the state-of-art, the opportunities and challenges of this field. It will help the readers to understand the importance, current advances, the opportunities and challenges of cooperative chemo-enzymatic synthetic technology and stimulate their interest in this field.

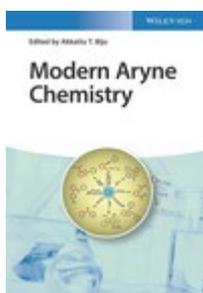


APRIL 2021 384PP  
978-3-527-34451-2 CL \$163.98 (Japan)  
Organic Chemistry

## Modern Aryne Chemistry

EDITOR AKKATTU T. BIJU

This book gives a conceptual framework of reactions related to arynes and systematically introduces the cycloaddition reactions, insertion reactions and transition-metal-catalyzed transformations of arynes. It is aimed at highlighting a novel strategy for carbon-carbon and carbon-heteroatom bond construction utilizing arynes. The simplicity and sophistication of the synthetic strategy using arynes as introduced in this book will inspire a broad range of organic chemists to explore new possibilities and imaginative applications of the concept of arynes.

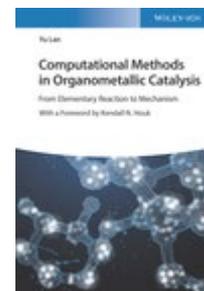


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Organic Chemistry

## Transition Metal Reactivity

YU LAN

This book systematically discusses the computational methods of organometallic catalysis. It not only provides a theoretical overview of organometallic catalysis, but also describes the computational studies for the mechanism of transition-metal-assisted reactions. This unique book allows chemists in academia and industry to broaden their fundamental knowledge of organometallic chemistry and catalysis.

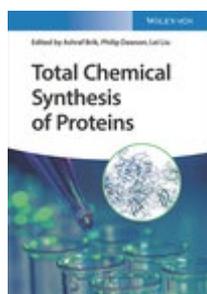


APRIL 2021 656PP  
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Organic Chemistry

## Total Chemical Synthesis of Proteins

EDITOR ASHRAF BRIK, EDITOR PHILIP DAWSON & EDITOR LEI LIU

This unique collection of synthetic methods and strategies for the total synthesis of native and modified proteins is a seminal reference for the entire field. It covers the three main ligation methods; native chemical ligation (NCL), sugar-assisted ligation (SAL), and ketoacid-hydroxylamine ligation (KAHA). Synthetic strategies for different protein types are systematically covered, including glycoproteins, sulfoproteins and membrane proteins. Finally, the most important application areas for total protein synthesis are discussed, such as protein crystallography, protein engineering, and biomedical research.



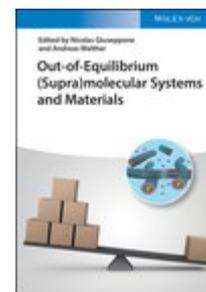
APRIL 2021 600PP  
978-3-527-34660-8 CL \$208.57 (Japan)  
Methods - Synthesis & Techniques

## Out-of-Equilibrium (Supra)molecular Systems and Materials

EDITOR NICOLAS GIUSEPPONE & EDITOR ANDREAS WALTHER

**A must-have resource that covers everything from out-of-equilibrium chemical systems and materials to dissipative self-assemblies**

*Out-of-Equilibrium Supramolecular Systems and Materials* presents a comprehensive overview of the synthetic approaches that use supramolecular bonds in various out-of-thermodynamic equilibrium situations. With contributions from noted experts on the topic, the text contains information on the design of dissipative self-assemblies that maintain their structures when fueled by an external source of energy. The contributors also examine molecules and nanoscale objects and materials that can produce mechanical work based on molecular machines. Additionally, the book explores non-equilibrium supramolecular polymers that can be trapped in kinetically stable states, as well as out-of-equilibrium chemical systems and oscillators that are important to understand the emergence of complex behaviors and, in particular, the origin of life.



This important book:

- Offers comprehensive coverage of fields from design of dissipative self-assemblies to non-equilibrium supramolecular polymers
- Presents information on a highly emerging and interdisciplinary topic
- Includes contributions from internationally renowned scientists

Written for chemists, physical chemists, biochemists, material scientists, *Out-of-Equilibrium Supramolecular Systems and Materials* is an indispensable resource written by top scientists in the field.

APRIL 2021 475PP  
978-3-527-34615-8 CL \$205.00 (Japan)  
Supramolecular Chemistry

## Supramolecular Chemistry

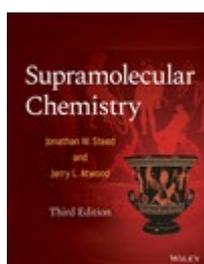
3rd Edition

JONATHAN W. STEED & JERRY L. ATWOOD

King's College, London; University of Missouri, Columbia

**A one-stop, comprehensive, and thoroughly updated resource for students, professors, and researchers alike**

Thoroughly revised and updated, the Third Edition of *Supramolecular Chemistry* delivers a comprehensive and integrated approach to this rapidly evolving and quickly expanding field. Distinguished professors and authors Jonathan Steed and Jerry Atwood provide readers with a broad and exhaustive resource that assumes little in the way of prior knowledge of supramolecular chemistry.



Extensive new content on cutting edge research throughout the field including molecular machines and the mechanical bond, mechanochemistry, halogen bonding, and crystal nucleation accompanies full-color imagery and study problems designed to help students understand and apply the principles introduced within the book. Additional material is provided in the supplementary online resources, including solutions to the student exercises and PowerPoint slides of the figures in the book.

Perfect for undergraduate and postgraduate students taking courses on supramolecular chemistry, the Third Edition of *Supramolecular Chemistry* also belongs on the bookshelves of all researchers in this, and any closely related, fields. Academics, in particular postdoctoral students and professors, will benefit significantly from this text.

JULY 2021 1000PP  
978-1-119-58251-9 CL \$100.00 (Japan)  
SUPRAMOLECULAR CHEMISTRY

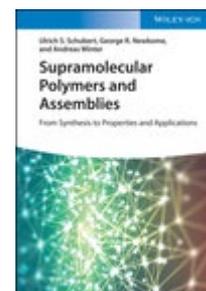
## Supramolecular Polymers and Assemblies

From Synthesis to Properties and Applications

ULRICH SCHUBERT, GEORGE R. NEWKOME & ANDREAS WINTER

Jena Center for Soft Matter (JCSM), Friedrich-Schiller University, Jena, Germany; University of Akron, Akron, Ohio, USA; Jena Center for Soft Matter (JCSM), Friedrich-Schiller University, Jena, Germany

Filling the gap for a practical approach in this emerging field, this book gives an excellent summary and describes concepts, synthetic strategies, characterization and applications. A certain emphasis is placed on metallo-supramolecular polymers, while such applications as self-healing materials, opto-electronics, sensing and catalysis are equally included. Uniformly written by a highly renowned, international author team.



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Supramolecular Chemistry

## Molecular Photoswitches

Diarylethene Molecules and Crystals

MASAHIRO IRIE

Rikkyo University, Tokyo, Japan

Detailed describes the diarylethene based photochromic materials.

APRIL 2021 350PP  
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Physical Chemistry

## Electrochemical Systems

4th Edition

JOHN NEWMAN & NITASH P. BALSARA

University of California, Berkeley

**Provides a comprehensive understanding of a wide range of systems and topics in electrochemistry**

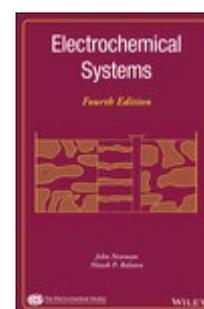
This book offers complete coverage of electrochemical theories as they pertain to the understanding of electrochemical systems. It describes the foundations of thermodynamics, chemical kinetics, and transport phenomena—including the electrical potential and charged species. It also shows how to apply electrochemical principles to systems analysis and mathematical modeling. Using these tools, the reader will be able to model mathematically any system of interest and realize quantitative descriptions of the processes involved.

This brand new edition of *Electrochemical Systems* updates all chapters while adding content on lithium battery electrolyte characterization and polymer electrolytes. It also includes a new chapter on impedance spectroscopy. Presented in 4 sections, the book covers: Thermodynamics of Electrochemical Cells, Electrode Kinetics and Other Interfacial Phenomena, Transport Processes in Electrolytic Solutions, and Current Distribution and Mass Transfer in Electrochemical Systems. It also features three appendices containing information on: Partial Molar Volumes, Vectors and Tensors, and Numerical Solution of Coupled, Ordinary Differential Equations.

*Electrochemical Systems, Fourth Edition* is an excellent resource for students, scientists, and researchers involved in electrochemical engineering.

SERIES: THE ECS SERIES OF TEXTS AND MONOGRAPHS

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ELECTROCHEMISTRY



## Electrochemical Energy Conversion and Storage

An Introduction

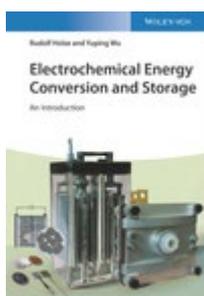
RUDOLF HOLZE & YUPING WU

Technical University, Chemnitz

This pioneering textbook on the topic provides a clear and well-structured description of the fundamental chemistry involved in these systems, as well as an excellent overview of the real-life practical applications.

Prof. Holze is a well-known researcher and an experienced author who guides the reader with his didactic style, and readers can test their understanding with questions and answers throughout the text.

Written mainly for advanced students in chemistry, physics, materials science, electrical engineering and mechanical engineering, this text is equally a valuable resource for scientists and engineers working in the field, both in academia and industry.



APRIL 2021 398PP  
978-3-527-33431-5 PB \$110.00 (Japan)  
Batteries & Fuel Cells

## Bioenergy Research

Evaluating Strategies for Commercialization and Sustainability

EDITOR NEHA SRIVASTAVA & EDITOR MANISH SRIVASTAVA

This book presents and evaluates the currently available bioenergy production technologies for bioethanol, biobutanol, biomethanol, bio-oil, biohydrogen, biogas and biomethane. Recent technology developments and their commercial feasibility are analyzed, and the book also covers the existing rollbacks, their rectification options, the time span for improvement, and their maximum impact probability on the market implementation for different bioenergy options. Comparative strategies are presented in each chapter for different biofuels technologies, current challenges and sustainable solutions are discussed, and the book concludes with a comparative evaluation provided by the editor. This book presents and evaluates the currently available bioenergy production technologies for bioethanol, biobutanol, biomethanol, bio-oil, biohydrogen, biogas and biomethane. Recent technology developments and their commercial feasibility are analyzed, and the book also covers the existing rollbacks, their rectification options, the time span for improvement, and their maximum impact probability on the market implementation for different bioenergy options. Comparative strategies are presented in each chapter for different biofuels technologies, current challenges and sustainable solutions are discussed, and the book concludes with a comparative evaluation provided by the editor.

APRIL 2021 376PP  
978-1-119-77209-5 CL \$200.00 (Japan)  
Sustainable Chemistry & Green Chemistry

## Deep Learning for Physical Scientists

Accelerating Research with Machine Learning

EDWARD O. PYZER-KNAPP & MATTHEW BENATAN

This book introduces the reader to the transformative techniques involved in deep learning. A range of methodologies are addressed including:

- \* Basic classification and regression with perceptrons
- \* Training algorithms, such as back propagation and stochastic gradient descent and the parallelization of training
- \* Multi-Layer Perceptrons for learning from descriptors, and de-noising data
- \* Recurrent neural networks for learning from sequences
- \* Convolutional neural networks for learning from images
- \* Bayesian optimization for tuning deep learning architectures

Each of these areas has direct application to physical science research, and by the end of the book, the reader should feel comfortable enough to select the methodology which is best for their situation, and be able to implement and interpret outcome of the deep learning model. The book is designed to teach researchers to think in new ways, providing them with new avenues to attack problems, and avoid roadblocks within their research. This is achieved through the inclusion of case-study like problems at the end of each chapter, which will give the reader a chance to practice what they have just learnt in a close-to-real-world setting, with example solutions' provided through an online resource. This book introduces the reader to the transformative techniques involved in deep learning.

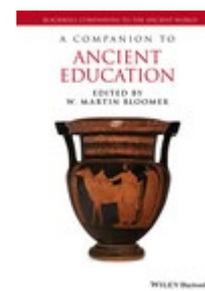
APRIL 2021 248PP  
978-1-119-40833-8 CL \$95.00 (Japan)  
Computational Chemistry & Molecular Modeling

## A Companion to Ancient Education

EDITOR W. MARTIN BLOOMER

University of Notre Dame, Indiana, USA

*A Companion to Ancient Education* presents a series of essays from leading specialists in the field that represent the most up-to-date scholarship relating to the rise and spread of educational practices and theories in the ancient Greek and Roman worlds.



- Reflects the latest research findings and presents new historical syntheses of the rise, spread, and purposes of ancient education in ancient Greece and Rome
- Offers comprehensive coverage of the main periods, crises, and developments of ancient education along with historical sketches of various educational methods and the diffusion of education throughout the ancient world
- Covers both liberal and illiberal (non-elite) education during antiquity
- Addresses the material practice and material realities of education, and the primary thinkers during antiquity through to late antiquity

SERIES: BLACKWELL COMPANIONS TO THE ANCIENT WORLD

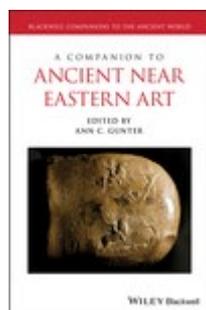
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978-1-119-02374-6 PB \$57.25 (Japan)  
9781444337532 CL \$202.75 (Japan), Published Sept 2015  
Ancient Culture

## A Companion to Ancient Near Eastern Art

EDITOR ANN C. GUNTER, Northwestern University

**Provides a broad view of the history and current state of scholarship on the art of the ancient Near East**

This book covers the aesthetic traditions of Mesopotamia, Iran, Anatolia, and the Levant, from Neolithic times to the end of the Achaemenid Persian Empire around 330 BCE. It describes and examines the field from a variety of critical perspectives: across approaches and interpretive frameworks, key explanatory concepts, materials and selected media and formats, and zones of interaction. This important work also addresses both traditional and emerging categories of material, intellectual perspectives, and research priorities. The book covers geography and chronology, context and setting, medium and scale, while acknowledging the diversity of regional and cultural traditions and the uneven survival of evidence.



Part One of the book considers the methodologies and approaches that the field has drawn on and refined. Part Two addresses terms and concepts critical to understanding the subjects and formal characteristics of the Near Eastern material record, including the intellectual frameworks within which monuments have been approached and interpreted. Part Three surveys the field's most distinctive and characteristic genres, with special reference to Mesopotamian art and architecture. Part Four considers involvement with artistic traditions across a broader reach, examining connections with Egypt, the Aegean, and the Mediterranean. And finally, Part Five addresses intersections with the closely allied discipline of archaeology and the institutional stewardship of cultural heritage in the modern Middle East.

Told from multiple perspectives, *A Companion to Ancient Near Eastern Art* is an enlightening, must-have book for advanced undergraduate and graduate students of ancient Near East art and Near East history as well as those interested in history and art history.

SERIES: BLACKWELL COMPANIONS TO THE ANCIENT WORLD

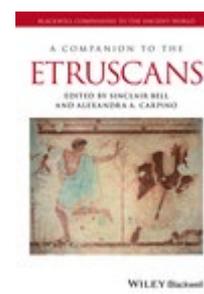
APRIL 2021 632PP  
978-1-119-11209-9 PB \$54.95 (Japan)  
9781118301258 CL \$210.00 (Japan), Published Nov 2018  
Ancient Culture

## A Companion to the Etruscans

EDITOR SINCLAIR BELL & EDITOR ALEXANDRA A. CARPINO

Northern Illinois University and Northern Arizona University;  
Northern Arizona University

This new collection presents a rich selection of innovative scholarship on the Etruscans, a vibrant, independent people whose distinct civilization flourished in central Italy for most of the first millennium BCE and whose artistic, social and cultural traditions helped shape the ancient Mediterranean, European, and Classical worlds.



- Includes contributions from an international cast of both established and emerging scholars
- Offers fresh perspectives on Etruscan art and culture, including analysis of the most up-to-date research and archaeological discoveries
- Reassesses and evaluates traditional topics like architecture, wall painting, ceramics, and sculpture as well as new ones such as textile archaeology, while also addressing themes that have yet to be thoroughly investigated in the scholarship, such as the *obesus etruscus*, the function and use of jewelry at different life stages, Greek and Roman *topoi* about the Etruscans, the Etruscans' reception of ponderation, and more
- Counters the claim that the Etruscans were culturally inferior to the Greeks and Romans by emphasizing fields where the Etruscans were either technological or artistic pioneers and by reframing similarities in style and iconography as examples of Etruscan agency and reception rather than as a deficit of local creativity

SERIES: BLACKWELL COMPANIONS TO THE ANCIENT WORLD

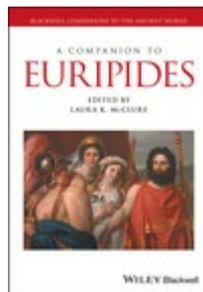
APRIL 2021 528PP  
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9781118352748 CL \$202.75 (Japan), Published Feb 2016  
Ancient Culture

## A Companion to Euripides

EDITOR LAURA K. MCCLURE

University of Wisconsin-Madison

*A Companion to Euripides* is an up-to-date, centralized assessment of Euripides and his work, drawing from the most recently published texts, commentaries, and scholarship, and offering detailed discussions and provocative interpretations of his extant plays and fragments.



- The most contemporary scholarship on Euripides and his oeuvre, featuring the latest texts and commentaries
- Leading scholars in the field discuss all of Euripides' plays and their afterlife with breadth and depth
- A dedicated section focuses on the reception of Euripidean drama since the Hellenistic
- Original and provocative interpretations of Euripides and his plays forge important paths of in future scholarship

SERIES: BLACKWELL COMPANIONS TO THE ANCIENT WORLD

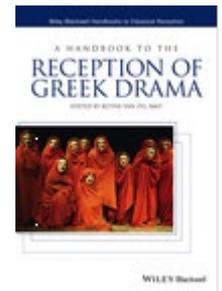
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Classical Greek Literature

## A Handbook to the Reception of Greek Drama

EDITOR BETINE VAN ZYL SMIT

University of Nottingham

*A Handbook to the Reception of Greek Drama* offers a series of original essays that represent a comprehensive overview of the global reception of ancient Greek tragedies and comedies from antiquity to the present day.



- Represents the first volume to offer a complete overview of the reception of ancient drama from antiquity to the present
- Covers the translation, transmission, performance, production, and adaptation of Greek tragedy from the time the plays were first created in ancient Athens through the 21st century
- Features overviews of the history of the reception of Greek drama in most countries of the world
- Includes chapters covering the reception of Greek drama in modern opera and film

SERIES: WILEY BLACKWELL HANDBOOKS TO CLASSICAL RECEPTION

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Reception of the Ancient World

## A Companion to the Achaemenid Persian Empire

EDITOR BRUNO JACOBS & EDITOR ROBERT ROLLINGER

University of Basel; University of Innsbruck

**A comprehensive review of the political, cultural, social, economic, and religious history of the Achaemenid Empire**

Often called the first world empire, the Achaemenid Empire is rooted in older Near Eastern traditions. *A Companion to the Achaemenid Persian Empire* offers a perspective in which the history of the empire is embedded in the preceding and subsequent epochs. In this way, the traditions that shaped the Achaemenid Empire become as visible as the powerful impact it had on further historical development. The work not only breaks new ground in this respect, but also in the fact that, in addition to written testimonies of all kinds, it also considers material tradition as an equal factor in historical reconstruction. This comprehensive two-volume set features contributions by internationally-recognized experts that offer balanced coverage of the whole of the empire from Anatolia and Egypt, and across western Asia to northern India and Central Asia.

Comprehensive in scope, the Companion provides readers with a panoramic view of the diversity, richness, and complexity of the Achaemenid Empire, dealing with all the many aspects of history, event history, administration, economy, society, communication, art, science, and religion while illustrating the multifaceted nature of the first true empire in world history.

Part of the acclaimed *Blackwell Companions to the Ancient World* series, *A Companion to the Achaemenid Persian Empire* is an indispensable work for students, instructors, and scholars of Persian and ancient world history, particularly the First Persian Empire.

SERIES: BLACKWELL COMPANIONS TO THE ANCIENT WORLD

MAY 2021 UnknownPP  
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Ancient & Classical Studies



## The Herodotus Encyclopedia

EDITOR CHRISTOPHER BARON

University of Notre Dame, USA

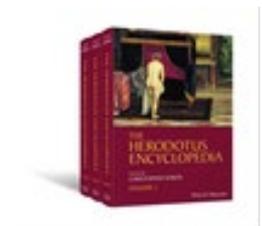
**Provides a comprehensive gateway to Herodotus' *Histories*, the story they tell, and the world in which they were written**

The first work of its kind, this book offers students and faculty of all levels an easy-to-use, up-to-date reference tool on Herodotus of Halicarnassus (the "Father of History") and provides Herodotean scholars with a collection of important strands of recent work. Topics include the debt of Greek historical writing to epic poetry (and other genres); narratological analysis of the text; Herodotus' position vis-à-vis his predecessors and contemporaries; his use of sources; his notion of Greekness; and the growing body of Persian and other Near Eastern evidence for sixth- and fifth century events.

Spanning three volumes, *The Herodotus Encyclopedia* surveys the current state of knowledge and understanding of Herodotus' work, and discusses past, current, and emerging approaches to the text. Featuring contributions from an international team of more than 150 scholars, it offers more than 2,500 entries which cover the individuals, peoples, and places Herodotus names in his *Histories*; the composition and central themes in his work; and the historical, social, intellectual, and literary context of the period. Many entries also explore the text's scholarship and reception from antiquity up to the present day.

*The Herodotus Encyclopedia* is an indispensable text for scholars in classics and related fields, instructors who cover Herodotus or Greek history in their courses, research libraries, and students of ancient Greek history and literature.

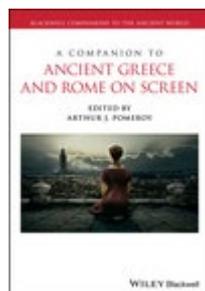
APRIL 2021 1776PP  
978-1-118-68964-6 CL \$595.00 (Japan)  
Ancient & Classical Greek & Hellenistic Studies



## A Companion to Ancient Greece and Rome on Screen

EDITOR ARTHUR J. POMEROY

A comprehensive treatment of the Classical World in film and television, *A Companion to Ancient Greece and Rome on Screen* closely examines the films and TV shows centered on Greek and Roman cultures and explores the tension between pagan and Christian worlds.



Written by a team of experts in their fields, this work considers productions that discuss social settings as reflections of their times and as indicative of the technical advances in production and the economics of film and television. Productions included are a mix of Hollywood and European spanning from the silent film era through modern day television series, and topics discussed include Hollywood politics in film, soundtrack and sound design, high art and low art, European art cinemas, and the ancient world as comedy.

Written for students of film and television as well as those interested in studies of ancient Rome and Greece, *A Companion to Ancient Greece and Rome on Screen* provides comprehensive, current thinking on how the depiction of Ancient Greece and Rome on screen has developed over the past century. It reviews how films of the ancient world mirrored shifting attitudes towards Christianity, the impact of changing techniques in film production, and fascinating explorations of science fiction and technical fantasy in the ancient world on popular TV shows like *Star Trek*, *Babylon 5*, *Battlestar Galactica*, and *Dr. Who*.

SERIES: BLACKWELL COMPANIONS TO THE ANCIENT WORLD

APRIL 2021 578PP  
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Classical Studies Special Topics

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JENNIFER SMITH, WOBURN, UNITED STATES

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GRAPHICS & DESIGN SOFTWARE (NON-MICROSOFT)

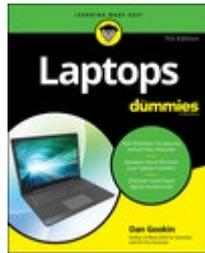
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DAN GOOKIN, COEUR D'ALENE

### The latest on getting the most from laptops and tablets

Not that long ago, laptops were seen as luxuries. Now they're practically an essential for many people, and--as faster computing power and super-sharp displays make many of them the equal of a desktop--the new wave of lightweight laptops is increasingly replacing the home PC with its bulky tower and multiple cords. Plus, you can use your laptop when chilling on the couch or venturing out for a quick coffee!



In this fully updated edition of *Laptops For Dummies*, bestselling tech writer Dan Gookin takes a friendly walk through everything you need to know, from the basics (if you're new to laptops) all the way up to the latest hardware and tech updates--including the recent release of Windows 10. Along the way you'll learn how to synchronize your laptop with other machines, coordinate email pickup across devices, and beef up your security. You'll also learn how to

- Choose the right laptop
- Check out tablet options
- Troubleshoot problems
- Maintain and upgrade

Whether you're choosing a new laptop or want to maximize what you're getting from the one you have, *Laptops For Dummies* has you covered, wherever you want to work--or play!

APRIL 2021 336PP  
978-1-119-74027-8 PB \$29.99 (Japan)  
COMPUTER HARDWARE / PC

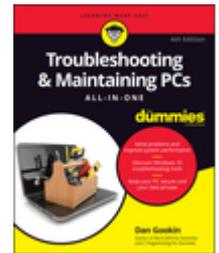
## Troubleshooting & Maintaining PCs All-in-One For Dummies

4th Edition

DAN GOOKIN, COEUR D'ALENE

### Show your PC who's boss

Nothing's more annoying than a tech malfunction, especially when it's your PC--with the exception of perhaps wading through reams of random, unreliable theories online looking for a solution, or paying an expensive tech geek to show up to perform a five-minute fix. The latest edition of *Troubleshooting & Maintaining Your PC All-in-One For Dummies* puts all this frustration behind you and gets you straight to work solving the problem yourself!



In his straightforward, friendly style, Dan Gookin--bestselling tech author and all-round Mr. Fixit--packs everything you need to know into 5-books-in-1, giving you the knowledge and process to hit on the right solution, fast. From identifying common problems to methodically narrowing down to the correct fix, you'll save hours of frustrating research--and experience the sweet, righteous satisfaction of having achieved it all yourself.

- Pick up quick fixes
- Understand and reconnect networks
- Restore memory
- Boost your PC's performance

Every problem has a solution and PCs are no different: get this book and you'll never catch yourself shouting at your monitor or frustrated with the motherboard again--well, maybe not quite so often.

APRIL 2021 456PP  
978-1-119-74030-8 PB \$39.99 (Japan)  
COMPUTER HARDWARE / PC

## Teach Yourself VISUALLY iPhone 12, 12 Pro, and 12 Pro Max

GUY HART-DAVIS, BARNARD CASTLE, UNITED KINGDOM

**Know your new iPhone 12, 12 Pro, and 12 Pro Max from the inside-out with 900 color screen shots!**

*Teach Yourself VISUALLY iPhone* is your ultimate guide to getting the most out of your iPhone! Apple's graphics-driven iOS is perfect for visual learners, so this book uses a visual approach to show you everything you need to know to get up and running--and much more. Full-color screen shots walk you step-by-step through setup, customization, and everything your iPhone can do. Whether you are new to the iPhone or have just upgraded to the 12, 12 Pro, or 12 Pro Max, this book helps you discover your phone's full functionality and newest capabilities. Stay in touch by phone, text, email, FaceTime Audio or FaceTime Video calls, or social media; download and enjoy books, music, movies, and more; take, edit, and manage photos; track your health, fitness, and habits; organize your schedule, your contacts, and your commitments; and much more!

The iPhone is designed to be user-friendly, attractive, and functional. But it is capable of so much more than you think--don't you want to explore the possibilities? This book walks you through iOS 14 visually to help you stay in touch, get things done, and have some fun while you're at it!

- Get to know iOS 14 with 900 full-color screen shots
- Master the iPhone's basic functions and learn the latest features
- Customize your iPhone to suit your needs and get optimal performance
- Find the apps and services that can make your life easier

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

SERIES: TEACH YOURSELF VISUALLY (TECH)  
APRIL 2021 352PP  
978-1-119-76328-4 PB \$25.00 (Japan)  
COMPUTER HARDWARE / MACINTOSH

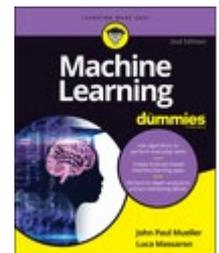
## Machine Learning For Dummies

2nd Edition

JOHN PAUL MUELLER, LA VALLE, UNITED STATES & LUCA MASSARON

**Your comprehensive entry-level guide to machine learning**

While machine learning expertise doesn't quite mean you can create your own Turing Test-proof android--as in the movie *Ex Machina*--it is a form of artificial intelligence and one of the most exciting technological means of identifying opportunities and solving problems fast and on a large scale. Anyone who masters the principles of machine learning is mastering a big part of our tech future and opening up incredible new directions in careers that include fraud detection, optimizing search results, serving real-time ads, credit-scoring, building accurate and sophisticated pricing models--and way, way more.



Unlike most machine learning books, the fully updated 2<sup>nd</sup> Edition of *Machine Learning For Dummies* doesn't assume you have years of experience using programming languages such as Python (R source is also included in a downloadable form with comments and explanations), but lets you in on the ground floor, covering the entry-level materials that will get you up and running building models you need to perform practical tasks. It takes a look at the underlying--and fascinating--math principles that power machine learning but also shows that you don't need to be a math whiz to build fun new tools and apply them to your work and study.

Whether you want to learn for college or to enhance your business or career performance, this friendly beginner's guide is your best introduction to machine learning, allowing you to become quickly confident using this amazing and fast-developing technology that's impacting lives for the better all over the world.

APRIL 2021 464PP  
978-1-119-72401-8 PB \$29.99 (Japan)  
COMPUTER SCIENCE - GENERAL INTEREST

## Error Correction Coding

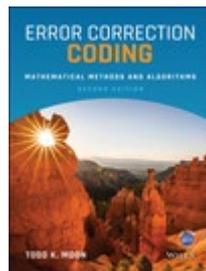
Mathematical Methods and Algorithms

2nd Edition

TODD K. MOON

### Providing in-depth treatment of error correction

*Error Correction Coding: Mathematical Methods and Algorithms, 2nd Edition* provides a comprehensive introduction to classical and modern methods of error correction. The presentation provides a clear, practical introduction to using a lab-oriented approach. Readers are encouraged to implement the encoding and decoding algorithms with explicit algorithm statements and the mathematics used in error correction, balanced with an algorithmic development on how to actually do the encoding and decoding. Both block and stream (convolutional) codes are discussed, and the mathematics required to understand them are introduced on a "just-in-time" basis as the reader progresses through the book.



*Error Correction Coding* includes extensive program files (for example, C++ code for all LDPC decoders and polar code decoders), laboratory materials for students to implement algorithms, and an updated solutions manual, all of which are perfect to help the reader understand and retain the content.

The book covers classical BCH, Reed Solomon, Golay, Reed Muller, Hamming, and convolutional codes which are still component codes in virtually every modern communication system. There are also fulsome discussions of recently developed polar codes and fountain codes that serve to educate the reader on the newest developments in error correction.

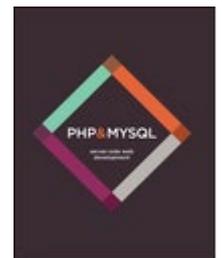
APRIL 2021 992PP  
978-1-119-56747-9 CL \$150.00 (Japan)  
INFORMATION TECHNOLOGIES

## PHP & MySQL

Server-side Web Development

JON DUCKETT, LONDON, UNITED KINGDOM

Learn PHP, the programming language used to build sites like Facebook, Wikipedia and WordPress, then discover how these sites store information in a database (MySQL) and use the database to create the web pages.



This full-color book is packed with inspiring code examples, infographics and photography that not only teach you the PHP language and how to work with databases, but also show you how to build new applications from scratch. It demonstrates practical techniques that you will recognize from popular sites where visitors can:

- Register as a member and log in
- Create articles, posts and profiles that are saved in a database
- Upload their own images and files
- Automatically receive email notifications
- Like and comment on posts.

To show you how to apply the skills you learn, you will build a complete content management system, enhanced with features that are commonly seen on social networks. Written by best-selling HTML & CSS and JavaScript & jQuery author Jon Duckett, this book uses a unique visual approach, with step-by-step instructions, practical code examples and pro tips that will teach you how to build modern database-driven websites using PHP.

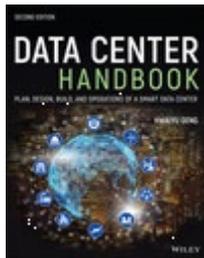
MAY 2021 672PP  
978-1-119-14921-7 CL \$52.00 (Japan)  
978-1-119-14922-4 PB \$45.00 (Japan)  
Web Site Development

## Data Center Handbook

Plan, Design, Build, and Operations of a Smart Data Center, 2nd Edition

EDITOR HWAIYU GENG

Written by 58 experts and reviewed by a seasoned technical advisory board, the *Data Center Handbook* is a thoroughly revised, one-stop resource that clearly explains the fundamentals, advanced technologies, and best practices used in planning, designing, building and operating a mission-critical, energy-efficient, sustainable data center. This handbook, in its second edition, covers anatomy, ecosystem and taxonomy of data centers that enable the Internet of Things and artificial intelligent ecosystems and encompass the following:



SECTION 1: DATA CENTER OVERVIEW AND STRATEGIC PLANNING

SECTION 2: DATA CENTER TECHNOLOGIES

SECTION 3: DATA CENTER DESIGN & CONSTRUCTION

SECTION 4: DATA CENTER OPERATIONS TECHNOLOGIES

The *Data Center Handbook: Plan, Design, Build, and Operations of a Smart Data Center* belongs on the bookshelves of any professionals who work in, with, or around a data center.

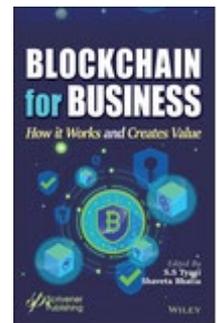
APRIL 2021 710PP  
978-1-119-59750-6 CL \$171.50 (Japan)  
DATABASE & DATA WAREHOUSING TECHNOLOGIES

## Blockchain for Business

How it Works and Creates Value

S. S. TYAGI & SHAVETA BHATIA

The book focuses on the power of business blockchain. It gives an overview of blockchain in traditional business, marketing, accounting and business intelligence. The book provides a detailed working knowledge of blockchain, user cases of blockchain in business, cryptocurrency and Initial Coin Offering(ICO) along with the risks associated with them. The book also covers the detailed study of decentralization, mining, consensus, smart contracts, concepts and working of distributed ledgers and hyper ledgers as well as many other important concepts. It also details the security and privacy aspects of blockchain.



The book is beneficial for readers who are preparing for their business careers, those who are working with small scale businesses and startups, and helpful for business executives, managers, entrepreneurs, bankers, government officials and legal professionals who are looking to blockchain for secure financial transactions. The book will also be beneficial for researchers and students who want to study the latest developments of blockchain.

APRIL 2021 400PP  
978-1-119-71104-9 CL \$175.00 (Japan)  
Artificial Intelligence

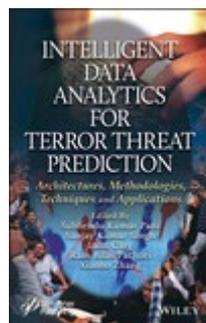
## Intelligent Data Analytics for Terror Threat Prediction

Architectures, Methodologies, Techniques, and Applications

EDITOR SUBHENDU KUMAR PANI, EDITOR SANJAY KUMAR SINGH, EDITOR LALIT GARG, EDITOR RAM BILAS PACHORI & EDITOR XIAOBO ZHANG

Intelligent data analytics for terror threat prediction is an emerging field of research at the intersection of information science and computer science, bringing with it a new era of tremendous opportunities and challenges due to plenty of easily available criminal data for further analysis.

This book provides innovative insights that will help obtain interventions to undertake emerging dynamic scenarios of criminal activities. Furthermore, it presents emerging issues, challenges and management strategies in public safety and crime control development across various domains. The book will play a vital role in improvising human life to a great extent. Researchers and practitioners working in the fields of data mining, machine learning and artificial intelligence will greatly benefit from this book, which will be a good addition to the state-of-the-art approaches collected for intelligent data analytics. It will also be very beneficial for those who are new to the field and need to quickly become acquainted with the best performing methods. With this book they will be able to compare different approaches and carry forward their research in the most important areas of this field, which has a direct impact on the betterment of human life by maintaining the security of our society. No other book is currently on the market which provides such a good collection of state-of-the-art methods for intelligent data analytics-based models for terror threat prediction, as intelligent data analytics is a newly emerging field and research in data mining and machine learning is still in the early stage of development.



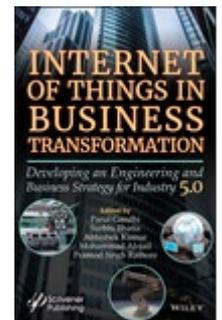
APRIL 2021 352PP  
978-1-119-71109-4 CL \$225.00 (Japan)  
Artificial Intelligence

## Internet of Things in Business Transformation

Developing an Engineering and Business Strategy for Industry 5.0

EDITOR PARUL GANDHI, EDITOR SURBHI BHATIA, EDITOR ABHISHEK KUMAR, EDITOR MOHAMMAD ALI ALOJAIL & EDITOR PRAMOD SINGH RATHORE

The objective of this book is to teach what IoT is, how it works, and how it can be successfully utilized in business. This book helps to develop and implement a powerful IoT strategy for business transformation as well as project execution. Digital change, business creation/change and upgrades in the ways and manners in which we work, live, and engage with our clients and customers, are all enveloped by the Internet of Things which is now named "Industry 5.0" or "Industrial Internet of Things. The sheer number of IoT (a billion+), demonstrates the advent of an advanced business society led by sustainable robotics and business intelligence. This book will be an indispensable asset in helping businesses to understand the new technology and thrive.



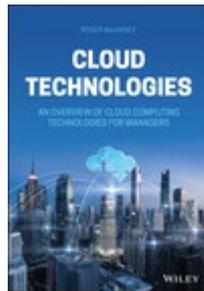
APRIL 2021 320PP  
978-1-119-71112-4 CL \$195.00 (Japan)  
Artificial Intelligence

## Cloud Technologies

An Overview of Cloud Computing Technologies for Managers

ROGER MCHANEY

Cloud Technologies: An Overview of Cloud Computing Technologies for Managers introduces cloud-based systems and expertly explains how these technologies have changed the way organizations approach and implement their computing infrastructure. Introducing the reader to an overview of cloud computing, this book smoothly addresses and presents business related considerations such as Service Level Agreements, elasticity, security, audits, and other practical implementation issues. Furthermore, it covers additional topics such as automation, infrastructure as code, DevOps, and orchestration. Comprised of 10 chapters, the author ensures cloud computing concepts are explained in a detailed, understandable manner that is clear to the reader, ensuring a firm understanding. Aimed at all levels of managers working in IT, Cloud Computing is embedded with topics that are important to managers, including cost savings and enhanced capabilities together with different models for implementing cloud technologies and tackling cloud business concerns.



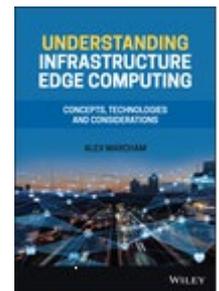
APRIL 2021 250PP  
978-1-119-76952-1 CL \$99.00 (Japan)  
Grid & Cloud Computing

## Understanding Infrastructure Edge Computing

Concepts, Technologies, and Considerations

ALEX MARCHAM

This book is intended to provide the reader with a thorough understanding of the growth in internet infrastructure since its inception, through to the emerging set of technologies known as infrastructure edge computing which progress this trend to its next generation. Infrastructure edge computing is the term coined by the author (and now accepted by the Linux Foundation and their LF Edge group, as well as much of the industry) for a model of data center and network infrastructure deployment which distributes a large number of physically small data centers around an area to provide users with superior performance than is achievable today, to enable a range of new use cases in an economical fashion. These use cases include 5G (Fifth Generation) mobile cellular networks, city-scale AI (Artificial Intelligence) systems which can help us work and play more effectively by automating many time-consuming tasks, and cyber-physical systems such as self-driving cars, drones and industrial robotics systems to save time, save money and improve safety. To provide the reader with a full understanding of the subject, the book will cover several topics from today's state of the art to how the infrastructure edge computing model alters that to the key technologies underpinning its deployment and operation, through to the use cases which it will support that are impractical or impossible on current infrastructure. The end result is to provide the reader with a thorough, accessible and accurate understanding of the next generation of internet infrastructure as a whole.



APRIL 2021 400PP  
978-1-119-76323-9 CL \$135.00 (Japan)  
Computer Architecture

## Building Secure Cars

Assuring the Automotive Software Development Lifecycle

DENNIS KENGO OKA

**Explores how the automotive industry can address the increased risks of cyberattacks and incorporate security into the software development lifecycle**

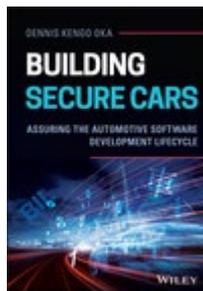
While increased connectivity and advanced software-based automotive systems provide tremendous benefits and improved user experiences, they also make the modern vehicle highly susceptible to cybersecurity attacks. In response, the automotive industry is investing heavily in establishing cybersecurity engineering processes.

Written by a seasoned automotive expert with abundant international industry expertise, *Building Secure Cars: Assuring the Software Development Lifecycle* introduces readers to various types of cybersecurity activities, measures, and solutions that can be applied at each stage in the typical automotive development process.

This book aims to assist auto industry insiders build more secure cars by incorporating key security measures into their software development lifecycle. Readers will learn to better understand common problems and pitfalls in the development process that lead to security vulnerabilities. To overcome such challenges, this book details how to apply and optimize various automated solutions, which allow software development and test teams to identify and fix vulnerabilities in their products quickly and efficiently. This book balances technical solutions with automotive technologies, making implementation practical.

This book is written for software development process owners, security policy owners, software developers and engineers, and cybersecurity teams in the automotive industry. All readers will be empowered to improve their organizations' security postures by understanding and applying the practical technologies and solutions inside.

APRIL 2021 275PP  
978-1-119-71074-5 CL \$130.00 (Japan)  
Computer Security & Cryptography



## The Handbook of International Crisis Communication Research

EDITOR ANDREAS SCHWARZ, EDITOR MATTHEW W. SEEGER & EDITOR CLAUDIA AUER

Ilmenau University of Technology; Wayne State University

*The Handbook of International Crisis Communication Research* articulates a broader understanding of crisis communication, discussing the theoretical, methodological, and practical implications of domestic and transnational crises, featuring the work of global scholars from a range of sub-disciplines and related fields.



- Provides the first integrative international perspective on crisis communication
- Articulates a broader understanding of crisis communication, which includes work from scholars in journalism, public relations, audience research, psychology, political science, sociology, economics, anthropology, and international communication
- Explores the topic from cross-national and cross-cultural crisis communication approaches
- Includes research and scholars from countries around the world and representing all regions
- Discusses a broad range of crisis types, such as war, terrorism, natural disasters, pandemic, and organizational crises

SERIES: HANDBOOKS IN COMMUNICATION AND MEDIA

APRIL 2021 584PP  
978-1-119-09731-0 PB \$54.95 (Japan)  
9781118516768 CL \$202.75 (Japan), Published June 2016  
General Communication & Media Studies

## Book Wars

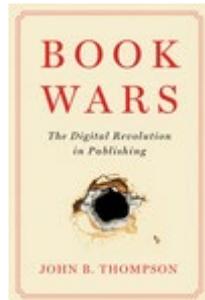
### The Digital Revolution in Publishing

JOHN B. THOMPSON

University of Cambridge, and Fellow of Jesus College,  
Cambridge

READERSHIP: Students on relevant courses in sociology, media and cultural studies and publishing studies, and interested general readers.

APRIL 2021 450PP  
978-1-5095-4678-7 CL \$35.00 (Japan)  
Media Studies



## MeToo

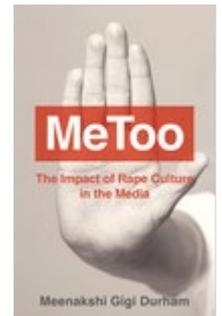
### How Rape Culture in the Media Impacts Us All

MEENAKSHI GIGI DURHAM

University of Iowa

READERSHIP: Students and scholars of Media and Communication, taking courses on Media and Gender and Sexuality, as well as general readers interested in this topic.

APRIL 2021 160PP  
978-1-5095-3519-4 CL \$64.95 (Japan)  
978-1-5095-3520-0 PB \$22.95 (Japan)  
Media Studies



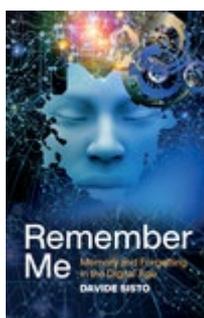
## Remember Me

Memory and Forgetting in the Digital Age

DAVIDE SISTO & TRANSLATED BY ALICE KILGARRIFF

READERSHIP: A general readership in social media and the internet; students and scholars in media studies, cultural studies and sociology.

APRIL 2021 160PP  
978-1-5095-4503-2 CL \$64.95 (Japan)  
978-1-5095-4504-9 PB \$19.95 (Japan)  
Media Studies



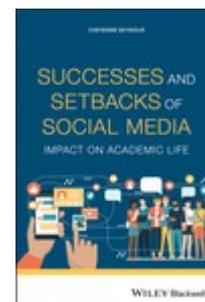
## Successes and Setbacks of Social Media

Impact on Academic Life

EDITOR CHEYENNE SEYMOUR

**Discover the real-life impacts of social media use through a collection of fascinating academic perspectives**

*Successes and Setbacks of Social Media: Impact on Academic Life* rigorously explores the positive and negative impacts of social media as a communication tool. The book incorporates a diverse group of opinions and perspectives, all of which reflect on how social media might influence academic success, relationships, self-worth, and engagement with virtual networks.



Accomplished academic and editor Dr. Cheyenne Seymour delivers an insightful examination of the different ways that social media can catapult people into success or failure. Four key areas are explored: academics, authenticity, relationships, and self-worth. Each area contains a synthesis of the latest research, supplemented with contributions that explore the negative and positive aspects of each area. The editor also includes perspectives that discuss emerging technologies, the impact they have on social media, and the impacts they might have in the future.

Perfect for advanced undergraduate and graduate level students across a variety of disciplines, but particularly in courses on social media, mass communication, relational communication, and strategic communication, *Successes and Setbacks of Social Media* also belongs on the bookshelves of anyone with even a passing interest in the real-world impacts of social media usage.

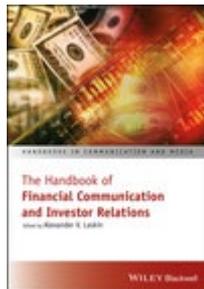
APRIL 2021 192PP  
978-1-119-69518-9 PB \$39.95 (Japan)  
Mass Communication & The Media

## The Handbook of Financial Communication and Investor Relations

EDITOR ALEXANDER V. LASKIN

**The first book to offer a global look at the state-of-the-art thinking and practice in investor relations and financial communication**

Featuring contributions from leading scholars and practitioners in financial communication and related fields—including public relations, corporate communications, finance, and accounting—this volume in the critically acclaimed "Handbooks in Communication and Media" series provides readers with a comprehensive, up-to-date picture of investor relations and financial communications as they are practiced in North America and around the world.



*The Handbook of Financial Communication and Investor Relations* provides an overview of the past, present, and future of investor relations and financial communications as a profession. It identifies the central issues of contemporary investor relations and financial communications practice, including financial information versus non-financial information, intangibles, risk, value, and growth. Authors address key topics of concern to contemporary practitioners, such as socially responsible investing, corporate governance, shareholder activism, ethics, and professionalism. In addition, the book arms readers with metrics and proven techniques for reliably measuring and evaluating the effectiveness of investor relations and financial communications.

This book makes an ideal reference resource for undergrads and graduate students, scholars, and practitioners studying or researching investor relations and financial communication across schools of communication, journalism, business, and management. It also offers professionals an up-to-date, uniquely holistic look at best practices in financial communication investor relations worldwide.

SERIES: HANDBOOKS IN COMMUNICATION AND MEDIA

APRIL 2021 544PP  
978-1-119-24079-2 PB \$49.95 (Japan)  
9781119240785 CL \$202.75 (Japan), Published Nov 2017  
Communication Studies

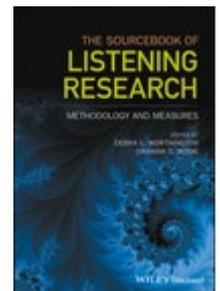
## The Sourcebook of Listening Research

Methodology and Measures

EDITOR DEBRA L. WORTHINGTON & EDITOR GRAHAM D. BODIE

**Winner of the 2018 Distinguished Book Award from the Communication and Social Cognition Division of the National Communication Association.**

Essential reading for listening researchers across a range of disciplines, *The Sourcebook of Listening Research: Methodology and Measures* is a landmark publication that defines the field of listening research and its best practices.



- the definitive guide to listening methodology and measurement with contributions from leading listening scholars and researchers
- Evaluates current listening methods and measures, with attention to scale development, qualitative methods, operationalizing cognitive processes, and measuring affective and behavioral components
- A variety of theoretical models for assessing the cognitive, affective, and behavioral facets of listening are presented alongside 65 measurement profiles. Outlines cutting-edge trends in listening research, as well as the complexities involved in performing successful research in this area

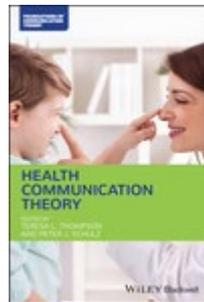
APRIL 2021 416PP  
978-1-119-10308-0 PB \$54.95 (Japan)  
9781119103073 CL \$161.25 (Japan), Published Oct 2017  
Applied Communication

## Health Communication Theory

EDITOR TERESA L. THOMPSON & EDITOR PETER J. SCHULZ

**Assembles the most important theories in the field of health communication in one comprehensive volume, designed for students and practitioners alike**

*Health Communication Theory* is the first book to bring together the theoretical frameworks used in the study and practice of creating, sending, and receiving messages relating to health processes and health care delivery. This timely volume provides easy access to the key theoretical foundations on which health communication theory and practice are based. Students and future practitioners are taught how to design theoretically-grounded research, interventions, and campaigns, while established scholars are presented with new and developing theoretical frameworks to apply to their work.



Divided into three parts, the volume first provides a summary and history of the field, followed by an overview of the essential theories and concepts of health communication, such as Problematic Integration Theory and the Cultural Variance Model. Part Two focuses on interpersonal communication and family interaction theories, provider-patient interaction frameworks, and public relations and organizational theories. The final part of the volume centers on theories relevant to information processing and cognition, affective impact, behavior, message effects, and socio-psychology and sociology.

*Health Communication Theory* is an indispensable resource for advanced undergraduate and graduate students studying health communication, and for both new and established scholars looking to familiarize themselves with the area of study or seeking a new theoretical frameworks for their research and practice.

SERIES: FOUNDATIONS OF COMMUNICATION THEORY SERIES

APRIL 2021 368PP  
978-1-119-57443-9 PB \$49.95 (Japan)  
Communication Theory

## Theorizing Crisis Communication

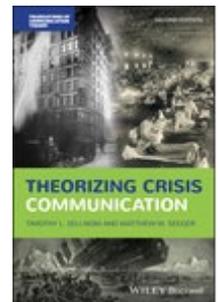
2nd Edition

TIMOTHY L. SELNOW & MATTHEW W. SEEGER

University of Kentucky; Wayne State University

**Explore the major theories within crisis communication, fully revised and updated**

*Theorizing Crisis Communication* provides a comprehensive and state-of-the-art review of both current and emerging theoretical frameworks designed to explain the development, management, and consequences of natural and human-caused crises. A critique of the many theoretical approaches of crisis communication, this volume provides readers with an in-depth understanding of the management, response, resolution, and significance of failures in corporate responsibility, as well as destructive global events such as pandemics, earthquakes, hurricanes, tsunamis, chemical spills, and terrorist attacks.



This second edition contains new theories from related subfields and updated examples, references, and case examples. New chapters discuss metatheoretical considerations and theoretical advancements in the study of social media. Throughout the text, the authors highlight similarities, patterns, and relationships across different crisis types and offer insight into the application of theory in the real world.

*Theorizing Crisis Communication, Second Edition*, is the perfect textbook for advanced undergraduate and graduate students of crisis and risk communication, and an importance reference for scholars, researchers, and practitioners in fields including crisis communication, emergency management, disaster studies, sociology, psychology, and anthropology.

SERIES: FOUNDATIONS OF COMMUNICATION THEORY SERIES

APRIL 2021 368PP  
978-1-119-61591-0 PB \$49.95 (Japan)  
COMMUNICATION THEORY

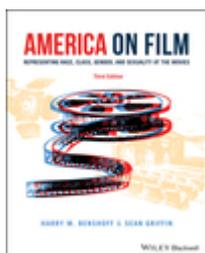
## America on Film

Representing Race, Class, Gender and Sexuality at the Movies, 3rd Edition

HARRY M. BENSHOFF & SEAN GRIFFIN

University of North Texas, USA; Southern Methodist University, USA

**A comprehensive and insightful examination of the representation of diverse viewpoints and perspectives in American cinema throughout the 20th and 21st centuries**



*America on Film: Representing Race, Class, Gender and Sexuality at the Movies*, now in its third edition, is an authoritative and lively examination of diversity issues within American cinema. Celebrated authors and academics Harry M. Benshoff and Sean Griffin provide readers with a comprehensive discussion and overview of the industrial, socio-cultural, and aesthetic factors that contribute to cinematic representations of race, class, gender, sexuality, and ability. The book incorporates several different theoretical perspectives, including film genre, auteurism, cultural studies, Orientalism, the "male gaze," feminism, and queer theory. The authors examine each selected subject via representative films, figures, and movements. Each chapter also includes an in-depth analysis of a single film to illuminate and inform its discussion of the chosen topic. *America on Film* fearlessly approaches and tackles several controversial areas of representation in film, including the portrayal of both masculinity and femininity in film and African- and Asian-Americans in film. It devotes the entirety of Part V to an analysis of the depiction of sex and sexuality in American film, with a particular emphasis on the portrayal of homosexuality.

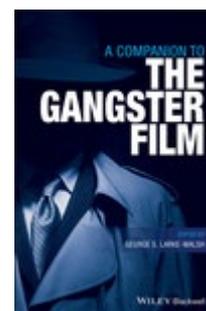
Perfect for undergraduate and graduate students in film, media, and diversity-related courses, the book also belongs on the shelves of anyone interested in diversity issues in the context of American studies, communications, history, or gender studies. Lastly, it's ideal for use within corporate diversity training curricula and human relations training within the entertainment industry.

APRIL 2021 UnknownPP  
978-1-118-74365-2 PB \$49.95 (Japan)  
FILM STUDIES

## A Companion to the Gangster Film

EDITOR GEORGE S. LARKE-WALSH

**A companion to the study of the gangster film's international appeal spanning the Americas, Europe, and Asia**



*A Companion to the Gangster Film* presents a comprehensive overview of the newest scholarship on the contemporary gangster film genre as a global phenomenon. While gangster films are one of America's most popular genres, gangster movies appear in every film industry across the world. With contributions from an international panel of experts, *A Companion to the Gangster Film* explores the popularity of gangster films across three major continents, the Americas, Europe, and Asia. The authors acknowledge the gangster genre's popularity and examine the reasons supporting its appeal to twenty-first century audiences across the globe.

The book examines common themes across all three continents such as production histories and reception, gender race and sexuality, mafia mythologies, and politics. In addition, the companion clearly shows that no national cinema develops in isolation and that cinema is a truly global popular art form.

Written for academics and students of film, *A Companion to the Gangster Film* offers a scholarly and authoritative guide exploring the various aspects and international appeal of the gangster film genre.

APRIL 2021 550PP  
978-1-119-04329-4 PB \$44.95 (Japan)  
9781119041665 CL \$215.00 (Japan), Published Nov 2018  
Film Studies

## Endodontic Materials in Clinical Practice

JOSETTE CAMILLERI

*Endodontic Materials in Clinical Practice* delivers a much-needed comprehensive and clinically oriented reference to the materials used in endodontic practice. It provides complete details on the properties of the materials required for specific techniques in order to help in the selection of the appropriate materials and improve patient outcomes.

Comprehensive in scope and filled with helpful illustrations, the book covers endodontic materials used from the pulp to the root-end. In addition, the text considers the location and technique for each of the materials presented. Designed to be a practical and accessible reference, the book is organised by specific clinical procedure.

- Presents an illustrated guide to all materials used in endodontic practice
- Focuses on the clinical application for each material
- Explains why specific materials are used
- Includes information on how to select the correct material
- Considers locations and techniques in making material decisions

Written for specialist endodontists and residents, dental material specialists, post-graduate students, general dentists, and dentistry students, *Endodontic Materials in Clinical Practice* is an essential resource for selecting the right materials for specific techniques.

APRIL 2021 304PP  
978-1-119-51352-0 CL \$150.00 (Japan)  
Endodontics

## Temporomandibular Disorders

A Problem Based Approach, 2nd Edition

ZIAD AL-ANI & ROBIN GRAY

Glasgow Dental Hospital & School, Glasgow, UK; Grays Dental Care, Altrincham, UK

### A valuable resource on how to diagnose and treat temporomandibular disorders (TMD)

The newly and thoroughly revised 2nd Edition of *Temporomandibular Disorders: A Problem-Based Approach* delivers a systematic and logical approach to diagnosing and treating temporomandibular disorders.

Using a case-based approach to assist readers with understanding and retention, the book discusses the practical realities of managing patients and promoting effective treatment of temporomandibular disorders. Containing full colour clinical images and diagrams throughout, the chapters include practical guides on how to make splints and samples of patient information sheets which can be used as templates. Readers will get access to topics such as:

- The clinical aspects of anatomy, function, pathology, and classification
- Differential diagnosis of temporomandibular joint problems
- Clicking joint problems and the use of preliminary investigation in disc displacement
- Temporomandibular joint locking diagnosis and treatment, including final treatment plans
- Facial pain examinations, differential diagnosis, and questions to ask patients regarding pain in general
- Headaches, worn teeth, dislocated jaws, and more issues that arise in the treatment of temporomandibular joint problems

Perfect for undergraduate dental students and general dental practitioners, the new edition of *Temporomandibular Disorders* is also useful to postgraduate dental students, academics, and researchers.

APRIL 2021 235PP  
978-1-119-61874-4 PB \$100.00 (Japan)  
ORAL ANATOMY & PHYSIOLOGY

## Clinical Cases in Gerodontology

GERRY MCKENNA, FINBARR ALLEN & FRANCIS BURKE

*Clinical Cases in Gerodontology* provides a comprehensive overview of the most relevant dental issues that arise when dealing with an aging population.

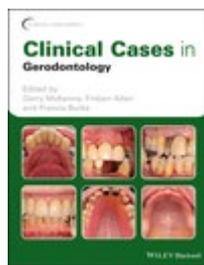
*Clinical Cases in Gerodontology* applies the theory and practice to real-life cases in a clinically relevant format. To aid learning, each of the clinical cases presented has a defined learning objective and goal. In addition, the authors discuss in detail the clinical decision-making factors and the text is enhanced with photographs that demonstrate the progressive stages of treatment. This important text:

- Offers a case-based guide to geriatric dental care
- Includes the thinking behind clinical decision making
- Fosters independent learning and prepares for case-based examinations
- Contains review questions and relevant literature citations

Written for graduate and undergraduate dental students and professionals, *Clinical Cases in Gerodontology* offers an instructive case-based guide to the oral health of older adults.

SERIES: CLINICAL CASES (DENTISTRY)

APRIL 2021 176PP  
978-1-119-22659-8 PB \$80.00 (Japan)  
Gerodontology



## Aligner Techniques in Orthodontics

JAVIER LOZANO ZAFRA & SUSANA PALMA MOYA

**An essential guide to the theoretical and practical clinical information on different aligner techniques in orthodontics**

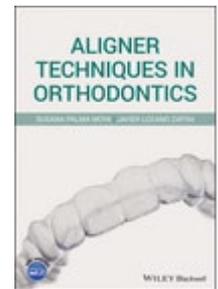
*Aligner Techniques in Orthodontics* is filled with the theoretical and practical clinical information on the popular aligner techniques with a focus on Invisalign. Written by practicing orthodontists and noted experts on the topic, the book is designed to help practitioners develop their skills in using aligners in orthodontics. The authors describe in detail the clear and simple methods for treating patients using different aligner techniques, as well as material on treating any given malocclusion.

The book is filled with descriptive illustrations and includes helpful suggestions and ideas for implementing the various aligner techniques. This important guide:

- Provides theoretical and practical clinical information on different aligner techniques including Invisalign
- Offers clear and simple methods to treat patients using different aligner techniques
- Explains how to use clear aligners to treat a given malocclusion
- Written by two renowned experts in Align and Invisalign technology

Written for practicing orthodontists and general dentists, *Aligner Techniques in Orthodontics* provides an invaluable resource for practicing orthodontists.

APRIL 2021 182PP  
978-1-119-60722-9 PB \$195.00 (Japan)  
Orthodontics



## Biological Mechanisms of Tooth Movement

3rd Edition

VINOD KRISHNAN, ANNE MARIE KUIJPERS-JAGTMAN & ZE'EV DAVIDOVITCH

Raja Dental College ; Harvard University

**This new edition continues to be an authoritative reference to the scientific foundations underpinning clinical orthodontics**

The newly and thoroughly revised Third Edition of *Biological Mechanisms of Tooth Movement* delivers a comprehensive reference for orthodontic trainees and specialists. It is fully updated to include new chapters on personalized orthodontics as well as the inflammatory process occurring in the dental and paradental tissues. It is heavily illustrated throughout, making it easier for readers to understand and retain the information discussed within. The topics covered range from bone biology, the effects of mechanical loading on tissues and cells, genetics, tissue remodeling, and the effects of diet, drugs, and systemic diseases.

The Third Edition of *Biological Mechanisms of Tooth Movement* features seven sections that cover subjects such as:

- The development of biological concepts in orthodontics, including the cellular and molecular biology behind orthodontic tooth movement
- Mechanics meets biology, including the effects of mechanical loading on hard and soft tissues and cells, and biological reactions to temporary anchorage devices
- Inflammation and orthodontics, including markers for tissue remodeling in the gingival crevicular fluid and saliva
- Personalized diagnosis and treatment based on genomic criteria, including the genetic influences on orthodontic tooth movement
- Rapid orthodontics, including methods to accelerate or decelerate orthodontic tooth movement

Perfect for residents and PhD students of orthodontic and periodontal programs, *Biological Mechanisms of Tooth Movement* is also useful to academics, clinicians, bone biologists, and researchers with an interest in the mechanics and biology of tooth movement.

APRIL 2021 384PP  
978-1-119-60893-6 CL \$255.00 (Japan)  
ORTHODONTICS

## Stakeholder Capitalism

A Global Economy that Works for Progress, People and Planet

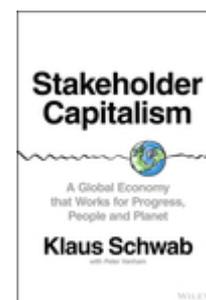
KLAUS SCHWAB & WITH PETER VANHAM

**Reimagining our global economy so it becomes more sustainable and prosperous for all**

Our global economic system is broken. But we can replace the current picture of global upheaval, unsustainability, and uncertainty with one of an economy that works for all people, and the planet. First, we must eliminate rising income inequality within societies where productivity and wage growth has slowed. Second, we must reduce the dampening effect of monopoly market power wielded by large corporations on innovation and productivity gains. And finally, the short-sighted exploitation of natural resources that is corroding the environment and affecting the lives of many for the worse must end.

The debate over the causes of the broken economy--laissez-faire government, poorly managed globalization, the rise of technology in favor of the few, or yet another reason--is wide open. *Stakeholder Capitalism: A Global Economy that Works for Progress, People and Planet* argues convincingly that if we don't start with recognizing the true shape of our problems, our current system will continue to fail us. To help us see our challenges more clearly, Schwab--the Founder and Executive Chairman of the World Economic Forum--looks for the real causes of our system's shortcomings, and for solutions in best practices from around the world in places as diverse as China, Denmark, Ethiopia, Germany, Indonesia, New Zealand, and Singapore.

By accurately describing our real situation, *Stakeholder Capitalism* is able to pinpoint achievable ways to deal with our problems. Chapter by chapter, Professor Schwab shows us that there are ways for everyone at all levels of society to reshape the broken pieces of the global economy and--country by country, company by company, and citizen by citizen--glue them back together in a way that benefits us all.



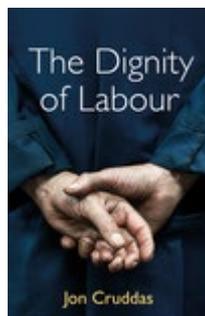
MARCH 2021 304PP  
978-1-119-75613-2 CL \$24.95 (Japan)  
Economics of Globalization

## The Dignity of Labour

JON CRUDDAS

READERSHIP: General readers interested in Universal Basic Income, postcapitalism, the future of work, the British Left, the Labour Party, Corbyn.

APRIL 2021 216PP  
978-1-5095-4078-5 CL \$59.95 (Japan)  
978-1-5095-4079-2 PB \$19.95 (Japan)  
Political Economics



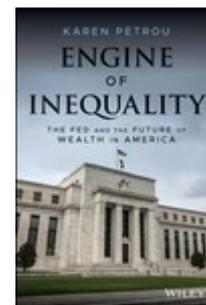
## Engine of Inequality

The Fed and the Future of Wealth in America

KAREN PETROU

**The first book to reveal how the Federal Reserve holds the key to making us more economically equal, written by an author with unparalleled expertise in the real world of financial policy**

Following the 2008 financial crisis, the Federal Reserve's monetary policy placed much greater focus on stabilizing the market than on helping struggling Americans. As a result, the richest Americans got a lot richer while the middle class shrank and economic and wealth inequality skyrocketed. In *Engine of Inequality*, Karen Petrou offers pragmatic solutions for creating more inclusive monetary policy and equality-enhancing financial regulation as quickly and painlessly as possible.



Karen Petrou is a leading financial-policy analyst and consultant with unrivaled knowledge of what drives the decisions of federal officials and how big banks respond to financial policy in the real world. Instead of proposing legislation that would never pass Congress, the author provides an insider's look at politically plausible, high-impact financial policy fixes that will radically shift the equality balance.

*Engine of Inequality: The Fed and the Future of Wealth in America* should be required reading for leaders, policymakers, regulators, media professionals, and all Americans wanting to ensure that the nation's financial policy will be a force for promoting economic equality

APRIL 2021 256PP  
978-1-119-72674-6 CL \$29.95 (Japan)  
Financial Economics

## 教育

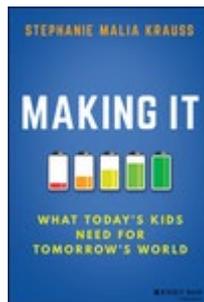
**Making It**

What Today's Kids Need for Tomorrow's World

STEPHANIE M KRAUSS

**Discover how to help young people "make it" in a rapidly changing world**

Author Stephanie Malia Krauss gets it. Every day she works with leaders across the country as they upgrade learning experiences to better equip young people for a changing world. A mother, former teacher and school leader, Stephanie knows firsthand how hard it is to balance school and program requirements with young people's needs. In *Making It: What Today's Kids Need for Tomorrow's World*, she lays out what adults can do to get young people ready for the future. What you learn may surprise you.



With so much changing so fast--accelerated by the impacts of COVID-19--the most in-demand jobs and skills of today may be obsolete by the time our youngest become adults. For kids to be ready for this new reality, they must acquire four critical "currencies" that will serve them well, whatever their future holds: credentials, competencies, connections, and cash. This book focuses on how to prioritize these four key outcomes whenever and wherever learning happens. The author shares research and experience to help you understand and apply a human-centered and future-focused lens directly to your classroom, school, program, or at home.

This book will benefit teachers, counselors, youth workers, parents, school board members, and state education leaders alike. Whether you work in K-12, youth development, or you just want to know how to best support the kids in your life, you will find a timely and useful resource putting young people first and modernizing their learning experiences for the better.

APRIL 2021 208PP  
978-1-119-57703-4 CL \$29.95 (Japan)  
Teacher Education (K-12)

**Reframing Academic Leadership**

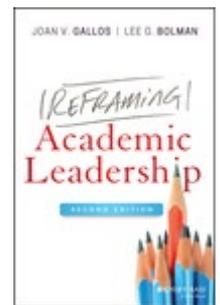
2nd Edition

JOAN V. GALLOS &amp; LEE G. BOLMAN

University of Missouri, Kansas City; University of Missouri-Kansas City

**An essential, no-nonsense resource for academic leaders on effective leadership in higher education**

In *Reframing Academic Leadership*, leadership experts Lee Bolman and Joan Gallos provide an essential resource for academic leaders. Adapting Bolman and Deal's Four Frames model, they focus on the effective leadership in higher education. Colleges and universities are special, and it takes special skills to lead and manage them well. This book is a provocative and pragmatic guide for deans, directors, provosts, and others involved in the important work of building higher education institutions and communities.



This edition contains substantial revisions and new material, including new cases and examples. You will gain a thorough understanding of how higher education leadership has changed in light of recent issues like the #MeToo movement, student debt, governing board dynamics, and the adjunctification of the professoriate. You'll learn how to craft the campus environment you envision, moving forward with practical tools and advice based on a solid conceptual framework.

Throughout this book, the authors integrate a powerful conceptual framework with rich and compelling real-world cases to support you in your search for the best in yourself and your institution. *Reframing Academic Leadership* is the resource for anyone seeking to understand, develop, and manage colleges and universities.

APRIL 2021 UnknownPP  
978-1-119-66356-0 CL \$46.00 (Japan)  
LEADERSHIP, ADMINISTRATION & POLICY (HIGHER EDUCATION)

## Universities and Civilizations

Worldwide Academic Competition and Geopolitics

FRANCK LEPREVOST

Since the publication of the first Shanghai ranking in 2003, the international rankings of universities have become evermore important. This book examines the evolution of higher education systems and the role of universities in contemporary societies, which are marked by increased competition and tensions.



Investigating whether the dynamism of large universities is an accurate indicator of the intellectual life of their civilizations, *Universities and Civilizations* systematically analyzes the evolution of universities in several main rankings, from their creation until now. This analysis shows the rise of universities in China and parts of Europe, the decline of American and Japanese universities and the scant presence of universities in Russia, India, Africa and Latin America.

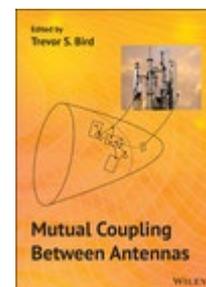
This book suggests an overhaul of traditional models of academic cooperation and exchange in an era of growing international tensions and a time when people and knowledge are increasingly mobile.

APRIL 2021 240PP  
978-1-78630-668-5 CL \$165.00 (Japan)  
Education Special Topics

## Mutual Coupling Between Antennas

EDITOR TREVOR S. BIRD

The aim of this book to provide an up-to-date description of the physical effects of mutual coupling for a variety of antennas and for techniques for analysing and assessing its effects. Practical aspects of mutual coupling will be presented as well as applications to show where the performance is impacted both positively and negatively by taking it into account. Mutual coupling is an important aspect of antenna array design that it is often neglected due to complexity or lack of computing power. It is a function of distance between the antennas, and depends on the near fields of the individual antenna elements, their proximity and their polarization. It can be analysed rigorously by a wide variety of methods from direct computer software using discrete methods, to integral equations and Greens function methods as well as approximate asymptotic methods. The book is directed at technical specialists, researchers and students working on problems connected with mutual interaction between antennas. A background in basic electromagnetics and antennas concepts is assumed.



APRIL 2021 480PP  
978-1-119-56498-0 CL \$135.00 (Japan)  
Antennas & Propagation

## Intelligent IoT for the Digital World

YANG YANG, XU CHEN, RUI TAN & YONG XIAO

**Discover how the Internet of Things will change the information and communication technology industry in the next decade**

*The Intelligent Internet of*

*Things* explores a unique type of Internet of Things (IoT) architecture, for example, the Web of Things (WoT) with its open character that breaks the barriers among various IoT vertical applications. The authors--noted experts on the topic--examine and compare key technologies from physical to platform level, especially the Narrow Band Internet of Things (NB-IoT) technology. They discuss applications with different data transmission requirements that are typical to IoT. The text also describes the requirements of WoT applications on 5G and includes detailed information on WoT technologies.



*The Intelligent Internet of Things* examines three typical WoT applications: the monitoring application of south-to-north water diversion projects; smart driving applications; and network optimization applications. In addition, the text explores testing and authentication of IoT key technologies, with the required equipment, platform, and outdoor environment development. This important book:

- Provides information on what IoT/WoT is, when to use it, how to provide IoT services with certain technologies, and more
- Discusses restful architecture, main protocols (ZigBee, 6lowpan, CoAP, HTML5)
- Explores key technologies on different layers (sensing, gathering, application)
- Examines how IoT will change the information and communication technology industry

Written for professionals working in IoT development, management and big data analytics, *Intelligent Internet of Things* offers an overview of IoT architecture, key technology, current applications and future development of the technology.

APRIL 2021 300PP  
978-1-119-59354-6 CL \$125.00 (Japan)  
Mobile & Wireless Communications

## Automated Vehicles and MaaS

Removing the Barriers

BOB WILLIAMS

Today's technological innovations are creating the base for mobility solutions, which, accompanied to cultural and socio-economic changes taking place all over the world, open the door to new mobility scenarios. The challenge of innovation in the transport sector, including road, sea, rail, and air, is represented by automation of vehicles, particularly the automotive, from the viewpoint of demonstration and validation. Advances in the field of Artificial Intelligence (AI), on which vehicle automation relies, will further challenge this innovation. Vehicle connectivity and automation will boost a paradigm change in mobility use and the adoption on a large scale of Mobility-as-a-Service (MaaS) travel options. However, certain conditions need to be in place for sustainable mobility solutions and new business models for transport services. This reference work aims to identify the obstacles to the introduction of cooperative and automated vehicles (CAVs) and MaaS. It presents the results of real research and study undertaken, and, having identified the obstacles, proposes solutions to address and overcome them, and make more realistic estimates of the timescales involved.



SERIES: WILEY – IEEE

APRIL 2021 300PP  
978-1-119-76534-9 CL \$130.00 (Japan)  
Control Systems Technology

## Handbook of Marine Craft Hydrodynamics and Motion Control

2nd Edition

THORI. FOSSEN, University of Trondheim, Norway

**The latest tools for analysis and design of advanced GNC systems**

*Handbook of Marine Craft Hydrodynamics and Motion Control* is an extensive study of the latest research in hydrodynamics, guidance, navigation, and control systems for marine craft. The text establishes how the implementation of mathematical models and modern control theory can be used for simulation and verification of control systems, decision-support systems, and situational awareness systems. Coverage includes hydrodynamic models for marine craft, models for wind, waves and ocean currents, dynamics and stability of marine craft, advanced guidance principles, sensor fusion, and inertial navigation.

This important book includes the latest tools for analysis and design of advanced GNC systems and presents new material on unmanned underwater vehicles, surface craft, and autonomous vehicles. References and examples are included to enable engineers to analyze existing projects before making their own designs, as well as MATLAB scripts for hands-on software development and testing.

This fully revised Second Edition includes innovative research in hydrodynamics and GNC systems for marine craft, from ships to autonomous vehicles operating on the surface and under water. *Handbook of Marine Craft Hydrodynamics and Motion Control* is a must-have for students and engineers working with unmanned systems, field robots, autonomous vehicles, and ships.

MSS toolbox: <https://github.com/cybergalactic/mss>

Lecture notes: <https://www.fossen.biz/wiley>

Author's home page: <https://www.fossen.biz>

APRIL 2021 700PP  
978-1-119-57505-4 CL \$185.00 (Japan)  
CONTROL SYSTEMS TECHNOLOGY

## Linear and Nonlinear Instabilities in Mechanical Systems

Analysis, Control and Application

HIROSHI YABUNO

**Linear and Nonlinear Instabilities in Mechanical Systems: Analysis, Control and Application**

Hiroshi Yabuno, University of Tsukuba, Japan

***An in-depth insight into nonlinear analysis and control***

As mechanical systems become lighter, faster, and more flexible, various nonlinear instability phenomena can occur in practical systems.

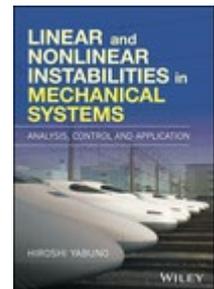
The fundamental knowledge of nonlinear analysis and control is essential to engineers for analysing and controlling nonlinear instability phenomena. The book bridges the gap between the mathematical expressions of nonlinear dynamics and the corresponding practical phenomena. *Linear and Nonlinear Instabilities in Mechanical Systems: Analysis, Control and Application* provides a detailed and informed insight into the fundamental methods for analysis and control for nonlinear instabilities from the practical point of view.

Key features:

- Refers to the behaviours of practical mechanical systems as aircraft, railway vehicle, robot manipulator, micro/nano sensor
- Enhances the rigorous and practical understanding of mathematical methods from an engineering point of view.
- The theoretical results obtained by nonlinear analysis are interpreted by using accompanied videos on the real nonlinear behaviors of nonlinear mechanical systems.

*Linear and Nonlinear Instabilities in Mechanical Systems: Analysis, Control and Application* is an essential textbook for students on engineering courses, and can also be used for self-study or reference by engineers.

APRIL 2021 350PP  
978-1-119-06653-8 CL \$130.00 (Japan)  
Control Systems Technology



## Physics of Semiconductor Devices

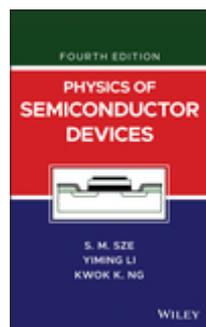
4th Edition

SIMON M. SZE, YIMING LI & KWOK K. NG

Bell Laboratories, Inc.; Bell Laboratories, Lucent Technologies,  
Murray Hill, New Jersey

**The new edition of the most detailed and comprehensive single-volume reference on major semiconductor devices**

The Fourth Edition of *Physics of Semiconductor Devices* remains the standard reference work on the fundamental physics and operational characteristics of all major bipolar, unipolar, special microwave, and optoelectronic devices. This fully updated and expanded edition includes approximately 1,000 references to original research papers and review articles, more than 650 high-quality technical illustrations, and over two dozen tables of material parameters.



Divided into five parts, the text first provides a summary of semiconductor properties, covering energy band, carrier concentration, and transport properties. The second part surveys the basic building blocks of semiconductor devices, including p-n junctions, metal-semiconductor contacts, and metal-insulator-semiconductor (MIS) capacitors. Part III examines bipolar transistors, MOSFETs (MOS field-effect transistors), and other field-effect transistors such as JFETs (junction field-effect-transistors) and MESFETs (metal-semiconductor field-effect transistors). Part IV focuses on negative-resistance and power devices. The book concludes with coverage of photonic devices and sensors, including light-emitting diodes (LEDs), solar cells, and various photodetectors and semiconductor sensors.

*Physics of Semiconductor Devices, Fourth Edition* is an indispensable resource for design engineers, research scientists, industrial and electronics engineering managers, and graduate students in the field.

APRIL 2021 944PP  
978-1-119-42911-1 CL \$135.00 (Japan)  
SEMICONDUCTORS

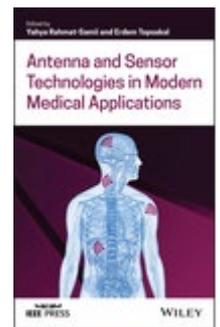
## Antenna and Sensor Technologies in Modern Medical Applications

YAHYA RAHMAT-SAMII & ERDEM TOPSAKAL

University of California at Los Angeles

**A guide to the theory and recent development in the medical use of antenna technology**

*Antenna and Sensor Technologies in Modern Medical Applications* offers a comprehensive review of the theoretical background, design, and the latest developments in the application of antenna technology. Written by two experts in the field, the book presents the most recent research in the burgeoning field of wireless medical telemetry and sensing that covers both wearable and implantable antenna and sensor technologies.



The authors review the integrated devices that include various types of sensors wired within a wearable garment that can be paired with external devices. The text covers important developments in sensor-integrated clothing that are synonymous with athletic apparel with built-in electronics. Information on implantable devices is also covered. The book explores technologies that utilize both inductive coupling and far field propagation. These include minimally invasive microwave ablation antennas, wireless targeted drug delivery, and much more. This important book:

- Covers recent developments in wireless medical telemetry
- Reviews the theory and design of in vitro/in vivo testing
- Explores emerging technologies in 2D and 3D printing of antenna/sensor fabrication
- Includes a chapter with an annotated list of the most comprehensive and important references in the field

Written for students of engineering and antenna and sensor engineers, *Antenna and Sensor Technologies in Modern Medical Applications* is an essential guide to understanding human body interaction with antennas and sensors.

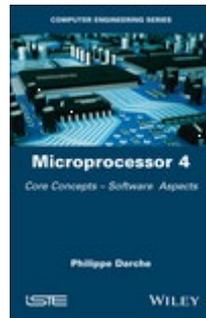
SERIES: WILEY - IEEE  
APRIL 2021 560PP  
978-1-119-68330-8 CL \$155.00 (Japan)  
Sensors, Instrumentation & Measurement

## Microprocessor 4

Core Concepts - Software Aspects

PHILIPPE DARCHE

Since its commercialization in 1971, the microprocessor, a modern and integrated form of the central processing unit, has continuously broken records in terms of its integrated functions, computing power, low costs and energy saving status. Today, it is present in almost all electronic devices. Sound knowledge of its internal mechanisms and programming is essential for electronics and computer engineers to understand and master computer operations and advanced programming concepts. This book in five volumes focuses more particularly on the first two generations of microprocessors, those that handle 4- and 8-bit integers. Microprocessor 4 -- the fourth of five volumes -- addresses the software aspects of this component. Coding of an instruction, addressing modes and the main features of the Instruction Set Architecture (ISA) of a generic component are presented. Furthermore, two approaches are discussed for altering the flow of execution using mechanisms of subprogram and interrupt. A comprehensive approach is used, with examples drawn from current and past technologies that illustrate theoretical concepts, making them accessible.



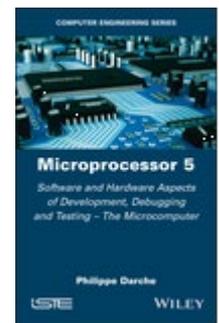
APRIL 2021 256PP  
978-1-78630-566-4 CL \$165.00 (Japan)  
Computer Engineering

## Microprocessor 5

Software and Hardware Aspects of Development, Debugging and Testing - The Microcomputer

PHILIPPE DARCHE

Since its commercialization in 1971, the microprocessor, a modern and integrated form of the central processing unit, has continuously broken records in terms of its integrated functions, computing power, low costs and energy saving status. Today, it is present in almost all electronic devices. Sound knowledge of its internal mechanisms and programming is essential for electronics and computer engineers to understand and master computer operations and advanced programming concepts. This book in five volumes focuses more particularly on the first two generations of microprocessors, those that handle 4- and 8-bit integers. Microprocessor 5 -- the fifth and final volume of this series of books -- first presents the hardware and software aspects of the development chain of a microprocessor-based digital system. Finally, to round up the series and offer a historical perspective, the architectures of the first microcomputers are detailed. A comprehensive approach is used, with examples drawn from current and past technologies that illustrate theoretical concepts, making them accessible.



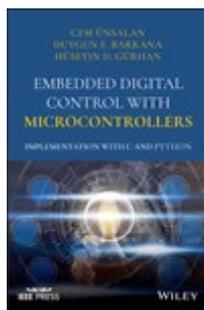
APRIL 2021 192PP  
978-1-78630-651-7 CL \$165.00 (Japan)  
Computer Engineering

## Embedded Digital Control with Microcontrollers

Implementation with C and Python

CEM UNSALAN, DUYGUN E. BARKANA & HUSEYIN D. GURHAN

This book teaches digital control system implementation techniques on widely used ARM Cortex-M microcontrollers. The authors handle this concept in three phases. First, the reader learns how to implement prototype digital control systems via Python programming language. This leads to better understanding the theoretical digital control concepts. Second, the reader utilizes C programming language based digital control system implementation on an actual microcontroller. This helps them solve real-life problems on digital control, robotics, and mechatronics areas. Third, the reader merges the theoretical and practical issues on digital control system implementation through real-life applications. This allows them to put concepts into action.



SERIES: WILEY – IEEE

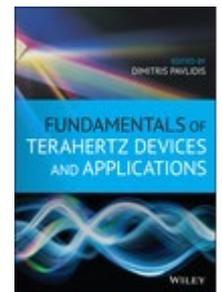
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978-1-119-57652-5 CL \$135.00 (Japan)  
Embedded Systems & Smart Cards

## Fundamentals of Terahertz Devices and Applications

DIMITRIS PAVLIDIS

Boston University, USA

The book will address fundamentals of THz devices and their applications. THz technology relates to applications that span in frequency from a few hundred GHz to more than 1000 GHz. They require devices for signal generation, detection and treatment the characteristics of which have been reported in various publications but their in-depth understanding is often lacking or requires the consultation of multiple references. It is the purpose of this book to address the above topics in a way that both the beginner and advanced reader can obtain a better understanding of device operation and use.



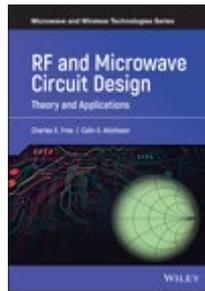
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RF / Microwave Theory & Techniques

## RF and Microwave Circuit Design

Theory and Applications

CHARLES E. FREE & COLIN S. AITCHISON

This textbook covers a typical modern syllabus in radio frequency or microwave design at final year undergraduate or first year postgraduate level. The content has been chosen to include all of the basic topics necessary to give a rigorous introduction to high-frequency technology. Both the content and presentation reflect the considerable experience which both authors have in teaching and research at university level. The material is presented from first principles, and relies only on students having a reasonable grasp of basic electronic principles. One of the key features of the book is the inclusion of an extensive set of worked examples to guide the student reader who has no prior knowledge of the subject.



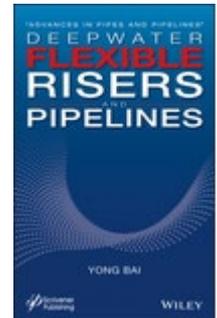
SERIES: MICROWAVE AND WIRELESS TECHNOLOGIES SERIES

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RF / Microwave Theory & Techniques

## Deepwater Flexible Risers and Pipelines

YONG BAI

The technology, processes, materials, and theories surrounding pipeline construction, application, and troubleshooting are constantly changing, and this new series, *Advances in Pipes and Pipelines*, has been created to meet the needs of engineers and scientists to keep them up to date and informed of all of these advances. This second volume in the series focuses on flexible pipelines, risers, and umbilicals, offering the engineer the most thorough coverage of the state-of-the-art available. The authors of this work have written numerous books and papers on these subjects and are some of the most influential authors on flexible pipes in the world, contributing much of the literature on this subject to the industry. This new volume is a presentation of some of the most cutting-edge technological advances in technical publishing.



The first volume in this series, published by Wiley-Scrivener, is *Flexible Pipes*, available at [www.wiley.com](http://www.wiley.com). Laying the foundation for the series, it is a groundbreaking work, written by some of the world's foremost authorities on pipes and pipelines. Continuing in this series, the editors have compiled the second volume, equally as groundbreaking, expanding the scope to pipelines, risers, and umbilicals. This is the most comprehensive and in-depth series on pipelines, covering not just the various materials and their aspects that make them different, but every process that goes into their installation, operation, and design. This is the future of pipelines, and it is an important breakthrough. A must-have for the veteran engineer and student alike, this volume is an important new advancement in the energy industry, a strong link in the chain of the world's energy production

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Fossil Fuels

## Petroleum Refining Design and Applications Handbook

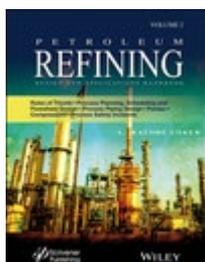
Rules of Thumb, Process Planning, Scheduling, and Flowsheet Design, Process Piping Design, Pumps, Compressors, and Process Safety Incidents

Volume 2

A. KAYODE COKER

### A must-read for any practicing engineer or student in this area

There is a renaissance that is occurring in chemical and process engineering, and it is crucial for today's scientists, engineers, technicians, and operators to stay current. This book offers the most up-to-date and comprehensive coverage of the most significant and recent changes to petroleum refining, presenting the state-of-the-art to the engineer, scientist, or student. Useful as a textbook, this is also an excellent, handy go-to reference for the veteran engineer, a volume no chemical or process engineering library should be without.



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Fossil Fuels

## Coal-Fired Power Generation Handbook

2nd Edition

JAMES G. SPEIGHT, LARAMIE, UNITED STATES

CD-WINC, Laramie, Wyoming

Coal accounts for approximately one quarter of world energy consumption and of the coal produced worldwide approximately 65% is shipped to electricity producers and 33% to industrial consumers, with most of the remainder going to consumers in the residential and commercial sectors. The total share of total world energy consumption by coal is expected to increase to almost 30% in 2035.

This book describes the challenges and steps by which electricity is produced from coal and deals with the challenges for removing the environmental objections to the use of coal in future power plants. New technologies are described that could virtually eliminate the sulfur, nitrogen, and mercury pollutants that are released when coal is burned for electricity generation. In addition, technologies for the capture of greenhouse gases emitted from coal-fired power plants are described and the means of preventing such emissions from contributing to global warming concerns. Written by one of the world's leading energy experts, this volume is a must-have for any engineer, scientist, or student working in this field, providing a valuable reference and guide in a quickly changing field.

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COAL

## Geothermal Energy

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CD-WINC, Laramie, Wyoming

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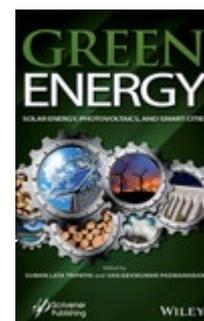
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978-1-119-36345-3 CL \$225.00 (Japan)  
Renewable Energy

## Green Energy

Solar Energy, Photovoltaics, and Smart Cities

EDITOR SUMAN LATA TRIPATHI & EDITOR SANJEEVIKUMAR  
PADMANABAN

Like most industries around the world, the energy industry has also made, and continues to make, a long march toward "green" energy. The science has come a long way since the 1970s, and renewable energy and other green technologies are becoming more and more common, replacing fossil fuels. It is, however, still a struggle, both in terms of energy sources keeping up with demand, and the development of useful technologies in this area.



To maintain the supply for electrical energy, researchers, engineers and other professionals in industry are continuously exploring new eco-friendly energy technologies and power electronics, such as solar, wind, tidal, wave, bioenergy, and fuel cells. These technologies have changed the concepts of thermal, hydro and nuclear energy resources by the adaption of power electronics advancement and revolutionary development in lower manufacturing cost for semiconductors with long time reliability. The latest developments in renewable resources have proved their potential to boost the economy of any country. Green energy technology has not only proved the concept of clean energy but also reduces the dependencies on fossil fuel for electricity generation through smart power electronics integration. Also, endless resources have more potential to cope with the requirements of smart building and smart city concepts. A valuable reference for engineers, scientists, chemists, and students, this volume is applicable to many different fields, across many different industries, at all levels. It is a must-have for any library.

APRIL 2021 640PP  
978-1-119-76076-4 CL \$249.00 (Japan)  
Renewable Energy

## Liquid Biofuels

Fundamentals, Characterization, and Applications

EDITOR KRUSHNA PRASAD SHADANGI

Compiled by a well-known expert in the field, *Liquid Biofuels* provides a profound knowledge to researchers about biofuel technologies, selection of raw materials, conversion of various biomass to biofuel pathways, selection of suitable methods of conversion, design of equipment, selection of operating parameters, determination of chemical kinetics, reaction mechanism, preparation of bio-catalyst: its application in bio-fuel industry and characterization techniques, use of nanotechnology in the production of biofuels from the root level to its application and many other exclusive topics for conducting research in this area.

Written with the objective of offering both theoretical concepts and practical applications of those concepts, *Liquid Biofuels* can be both a first-time learning experience for the student facing these issues in a classroom and a valuable reference work for the veteran engineer or scientist. The description of the detailed characterization methodologies along with the precautions required during analysis are extremely important, as are the detailed description about the ultrasound assisted biodiesel production techniques, aviation biofuels and its characterization techniques, advance in algal biofuel techniques, pre-treatment of biomass for biofuel production, preparation and characterization of bio-catalyst, and various methods of optimization.

The book offers a comparative study between the various liquid biofuels obtained from different methods of production and its engine performance and emission analysis so that one can get the utmost idea to find the better biofuel as an alternative fuel. Since the book covers almost all the field of liquid biofuel production techniques, it will provide advanced knowledge to the researcher for practical applications across the energy sector. A valuable reference for engineers, scientists, chemists, and students, this volume is applicable to many different fields, across many different industries, at all levels. It is a must-have for any library.

APRIL 2021 UnknownPP  
978-1-119-79198-0 CL \$225.00 (Japan)  
Bioenergy

## Wind Energy Handbook

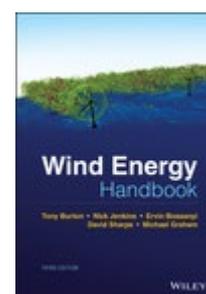
3rd Edition

TONY L. BURTON, NICK JENKINS, ERVIN BOSSANYI, DAVID SHARPE & MICHAEL GRAHAM

CREST, Loughborough University, UK

Fully revised and updated, this third edition addresses key developments in the wind technology since the second edition was published in 2011. Completely new sections on model predictive control; use of estimators for fault detection and fatigue monitoring; active power control; and wind farm control. After a brief introduction, the authors discuss the wind resource.

Particular reference is made to wind turbulence due to its importance in wind turbine design. A discussion on the basis of the aerodynamics of horizontal axis wind turbines follows, incorporating general momentum theory and dynamic stall, and an analysis of their performance. The book goes on to assess the requirements for establishing design loads. Burton et al. also set out the various design options for horizontal axis wind turbines, discussing variable speed operation and reviewing alternative blade materials and their properties. They explain the functions of the wind turbine controller and describe some of the possible analysis techniques. The text also reviews the development of wind energy projects with particular emphasis on environmental impact, and considers how wind turbines interact with the electrical power system.



APRIL 2021 864PP  
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WIND ENERGY

## Advances in Electric Power and Energy

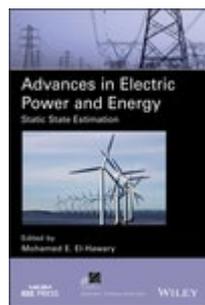
### Static State Estimation

EDITOR MOHAMED E. EL-HAWARY

Dalhousie University

**A guide to the role of static state estimation in the mitigation of potential system failures**

With contributions from a noted panel of experts on the topic, *Advances in Electric Power and Energy: Static State Estimation* addresses the wide-range of issues concerning static state estimation as a main energy control function and major tool for evaluating prevailing operating conditions in electric power systems worldwide.



This book is an essential guide for system operators who must be fully aware of potential threats to the integrity of their own and neighboring systems. The contributors provide an overview of the topic and review common threats such as cascading black-outs to model-based anomaly detection to the operation of micro-grids and much more. The book also includes a discussion of an effective mathematical programming approach to state estimation in power systems. *Advances in Electric Power and Energy* reviews the most recent developments in the field and:

- Offers an introduction to the topic to help non-experts (and professionals) get up-to-date on static state estimation
- Covers the essential information needed to understand power system state estimation written by experts on the subject
- Discusses a mathematical programming approach

Written for electric power system planners, operators, consultants, power system software developers, and academics, *Advances in Electric Power and Energy* is the authoritative guide to the topic with contributions from experts who review the most recent developments.

SERIES: IEEE PRESS SERIES ON POWER ENGINEERING

APRIL 2021 512PP  
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Power Technology & Power Engineering

## Maintaining Mission Critical Systems in a 24/7 Environment

3rd Edition

PETER M. CURTIS

**The new edition of the leading single-volume resource on designing, operating, and managing mission critical infrastructure**

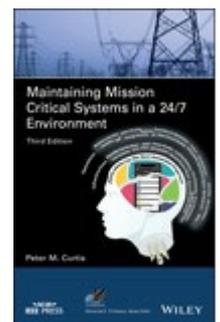
*Maintaining Mission Critical Systems in a 24/7 Environment* provides in-depth coverage of operating, managing, and maintaining power quality and emergency power systems in mission critical facilities. This extensively revised third edition provides invaluable insight into the mission critical environment, helping professionals and students alike understand how to sustain continuous functionality, minimize the occurrence of costly unexpected downtime, and guard against power disturbances that can damage any organization's daily operations.

Bridging engineering, operations, technology, and training, this comprehensive volume covers each component of specialized systems used in mission critical infrastructures worldwide. Throughout the text, readers are provided the up-to-date information necessary to design and analyze mission critical systems, reduce risk, comply with current policies and regulations, and maintain an appropriate level of reliability based on a facility's risk tolerance. Topics include safety, fire protection, energy security, and the myriad challenges and issues facing industry engineers today.

*Maintaining Mission Critical Systems in a 24/7 Environment* is a must-read reference and training guide for architects, property managers, building engineers, IT professionals, data center personnel, electrical & mechanical technicians, students, and others involved with all types of mission critical equipment.

SERIES: IEEE PRESS SERIES ON POWER ENGINEERING

APRIL 2021 656PP  
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POWER TECHNOLOGY & POWER ENGINEERING



## 地球科学

**Caves**

Processes, Development, and Management

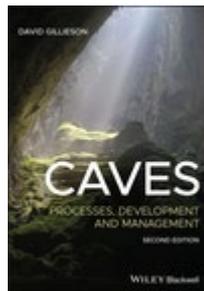
2nd Edition

DAVID GILLIESON

University of New South Wales

People have been interested in caves for a very long time. Our distant ancestors used them for shelter, as sources of water, and as places in which to conduct essential rituals. They adorned their walls with quite sophisticated artwork depicting both their existential and spiritual concerns. Caves feature in our mythology, they are used as places of worship in many cultures, and they are used throughout the world as places in which to store prized foodstuffs and wine. For at least two hundred years they have attracted scientists, artists, photographers, and recreational cavers. This book aims to examine how caves form, the light they shed on past environments and climates, and the values, both environmental and cultural, that they provide to humanity. This second edition of **Caves: Processes, Development, and Management** is a welcome revision of the author's earlier treatment released over twenty years ago. It has been updated, significantly expanded, and largely rewritten. The intervening years have seen a dramatic increase in karst and cave research globally, with significant advances in our understanding of fundamental processes, in our ability to extract proxy climatic and environmental data from cave deposits, and in our understanding of the breadth of cave values and as a result the complexity of their management needs. This new edition adopts a broad international perspective in the research examples used and the cited literature, and has actively sought out material from the tropical world and the southern continents, thus avoiding the European and North American bias frequently found in speleological publications.

The book will be of use to anyone who is interested in caves and karst, or who wants to understand about cave formation, development, values and management.

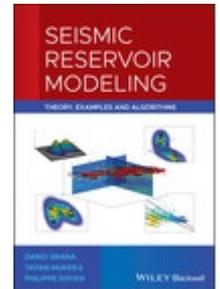


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978-1-119-45557-8 PB \$65.00 (Japan)  
Geology & Geophysics

**Integrated Seismic Reservoir Modeling**

DARIO GRANA

Seismic reservoir characterization aims to build 3-dimensional models of rock and fluid properties, including elastic and petrophysical variables, to describe and monitor the state of the subsurface for hydrocarbon exploration and production and for CO<sub>2</sub> sequestration. Rock physics modeling and seismic wave propagation theory provide a set of physical equations to predict the seismic response of subsurface rocks based on their elastic and petrophysical properties. However, the rock and fluid properties are generally unknown and surface geophysical measurements are often the only available data to constrain reservoir models far away from well control. Therefore, reservoir properties are generally estimated from geophysical data as a solution of an inverse problem, by combining rock physics and seismic models with inverse theory and geostatistical methods, in the context of the geological modeling of the subsurface. A probabilistic approach to the inverse problem provides the probability distribution of rock and fluid properties given the measured geophysical data and allows quantifying the uncertainty of the predicted results. The reservoir characterization problem includes both discrete properties, such as facies or rock types, and continuous properties, such as porosity, mineral volumes, fluid saturations, seismic velocities and density. *Seismic Reservoir Modeling: Theory, Examples and Algorithms* presents the main concepts and methods of seismic reservoir characterization. The book presents an overview of rock physics models that link the petrophysical properties to the elastic properties in porous rocks and a review of the most common geostatistical methods to interpolate and simulate multiple realizations of subsurface properties conditioned on a limited number of direct and indirect measurements based on spatial correlation models. The core of the book focuses on Bayesian inverse methods for the prediction of elastic petrophysical properties from seismic data using analytical and numerical statistical methods.



APRIL 2021 350PP  
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Structural Geology & Tectonics

## Structural Analysis and Synthesis

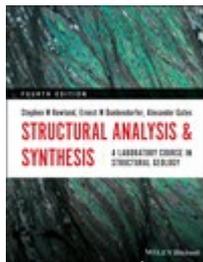
A Laboratory Course in Structural Geology

4th Edition

STEPHEN M. ROWLAND, ERNEST M. DUEBENDORFER &  
ALEXANDER GATES

University of Nevada; Northern Arizona University

*Structural Analysis and Synthesis* is the best-selling laboratory manual of its kind. Specifically designed to support the laboratory work of undergraduates in structural geology courses, the book helps students analyze the various aspects of geological structures, and to combine their analyses into an overarching synthesis. This book is intended for use in the laboratory portion of a first course in structural geology.



As is explicit in the title, this book is concerned with both the analysis and synthesis of structural features. In this 4th edition, the focus of this popular manual has been broadened to include a range of new content and features, including:

- Video content which demonstrates visually how to perform some of the more challenging structural geology techniques
- An acknowledgement of the increasing importance of environmental applications of structural geology -- vital to students who may go on to pursue careers in the environmental sphere
- An increased emphasis on quantitative techniques, complete with descriptions of computer program applications
- Contingent with this quantitative emphasis, the book also outlines the limitations of such techniques, helping students to appropriately apply the techniques and evaluate their trustworthiness

*Structural Analysis and Synthesis, 4th edition* is a renowned and widely recognized aid to students in grasping and mastering the techniques required in structural geology, and will find a home wherever the principles and practices of structural geology are taught.

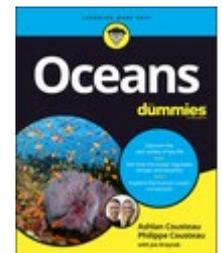
APRIL 2021 206PP  
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STRUCTURAL GEOLOGY & TECTONICS

## Oceans For Dummies

ASHLAN COUSTEAU, PHILIPPE COUSTEAU & JOSEPH KRAYNAK,  
CRAWFORDSVILLE, UNITED STATES

### Dive deep to explore the ocean

From how most of our oxygen is created by phytoplankton, to how currents control our climate, to the marine food chain and the importance of coral, this is the holy grail of ocean books that's easy for everyone to digest.



It features fun facts about some of the most incredible, bizarre, and fascinating creatures in the ocean, from mantis shrimp that can strike things with the speed of a .22 caliber bullet to fish with clear heads that can see out of the top of their skulls. The ocean is full of wonders and there is still so much left to explore and understand.

- How our oceans work
- What creatures live in the ocean
- Find out how the ocean regulates our climate and weather patterns
- How growing pollution threatens our ocean and its inhabitants

*Oceans For Dummies* is perfect for anyone with an interest in the ocean, including kids, adults, students, ocean lovers, surfers, fishermen, conservationists, sailors, and everyone in between.

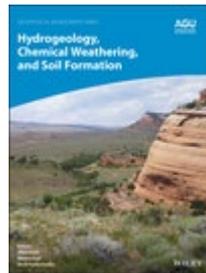
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Oceanography & Paleooceanography

## Hydrogeology, Chemical Weathering, and Soil Formation

ALLEN HUNT & MARKUS EGLI

**Explores soil as a nexus for water, chemicals, and biologically coupled nutrient cycling**

Soil is a narrow but critically important zone on Earth's surface. It is the interface for water and carbon recycling from above and part of the cycling of sediment and rock from below.



*Hydrogeology, Chemical Weathering, and Soil Formation* places chemical weathering and soil formation in its geological, climatological, biological and hydrological perspective.

Volume highlights include:

- The evolution of soils over 3.25 billion years
- Basic processes contributing to soil formation
- How chemical weathering and soil formation relate to water and energy fluxes
- The role of pedogenesis in geomorphology
- Relationships between climate soils and biota
- Soils, aeolian deposits, and crusts as geologic dating tools
- Impacts of land-use change on soils

The American Geophysical Union promotes discovery in Earth and space science for the benefit of humanity. Its publications disseminate scientific knowledge and provide resources for researchers, students, and professionals.

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PARDEEP SINGH

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ROBERT C. BREARS

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Water Resource Management

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WILEY

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JOSHUA ROSENBAUM & JOSHUA PEARL

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Institutional & Corporate Finance

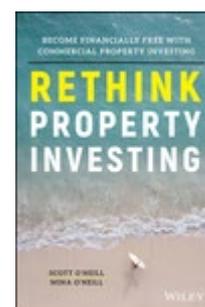
## Rethink Property Investing

Become Financially Free with Commercial Property Investing

SCOTT O'NEILL & MINA O'NEILL, AUSTRALIA

### The definitive guide to building a profitable commercial property portfolio

*Rethink Property Investing* offers practical advice for both new and established investors looking to move beyond traditional residential real estate and enter the profitable world of commercial properties. Scott and Mina O'Neill, Australia's leading commercial property investors and founders of Rethink Investing, show you how they retired at the age of 28 and now live off the income generated by their \$20 million property portfolio. This invaluable guide dispels the investing myths and demystifies complex property principles and strategies using a clear, straightforward, and easy-to-understand approach.



This is the book Scott and Mina O'Neill wished they had when they started out: an honest, no-nonsense book filled with practical examples, personal stories, expert advice and real-world information. Whether you're a residential property investor looking to go to the next level or an experienced investor seeking a more advanced approach to commercial property, *Rethink Property Investing* is written to help you earn enough passive income to retire early and enjoy life. Learn how you can achieve unlimited success through commercial property investing using simple yet powerful strategies from two people who have already done it--and are willing to share their wisdom.

Now is the time to create wealth in the long term with commercial property investing. From developing an investment mindset to financing and managing your property, *Rethink Property Investing* will guide you through every step.

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## Bank Investing

A Practitioner's Field Guide

SUHAIL CHANDY & WEISON DING

*Bank Investing: A Practitioner's Field Guide* offers you the essential toolkit to become a successful bank investor. It packages practical lessons, theoretical knowledge, and historical context, all into one compelling and hopefully entertaining book. The book includes conversations with investors and management teams. Investors include activists, financial specialists, credit investors, and multibillion-dollar asset managers. Management teams have a broad representation from the c-suite of a broad spectrum of participants ranging from a fintech to a bank with over \$30bn in assets.



Banks are the oil that lubricates the economy. An understanding of how they operate is essential for analyzing any part of the economy since banks represent a large investing universe and control a sizeable portion of assets. With over 800 public tickers representing over \$3 trillion market cap, banks are larger than several other industry groups. Banks are the largest financial intermediaries in the U.S., controlling \$15 trillion in financial assets. Their relative size can amplify effects. For example, a small regulatory or environmental change can cascade and ripple through financial markets and have a major impact on the economy.

As fintechs gain in prominence, a fundamental grasp of topics related to banking will help enhance understanding of fintech.

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Investments & Securities

## The Gone Fishin' Portfolio

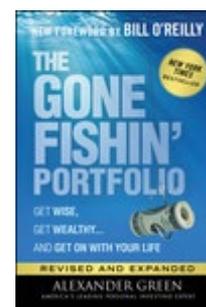
Get Wise, Get Wealthy...and Get on With Your Life

2nd Edition

ALEXANDER GREEN, KESWICK

**Learn how to invest, relax, and let your money do the work with this incredible guide**

Fully revised, updated, and expanded for the first time since its New York Times Best-Selling debut in 20TK, the legendary Alexander Green's essential guide for individual investors spells out stock-market success for everyone from first-timers to seasoned pros.



*The Gone Fishin' Portfolio: Get Wise, Get Wealthy...and Get on With Your Life, Second Edition* delivers a long-term investment strategy that lets you reap the rewards of financial success with a simple, yet sophisticated, strategy that increases returns, reduces risk, and leaves you with time to enjoy the finer things in life.

You'll learn about the fundamental relationship between risk and reward in the financial markets and get a trading insider's view of how the investment industry actually works.

Perfect for individual investors who want to put their money to work for them, *The Gone Fishin' Portfolio* gives you all the tools you need to manage your own money and maximize your investment returns today.

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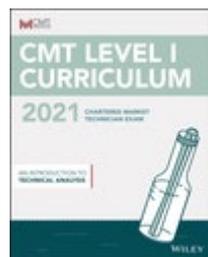
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*CMT Level I 2021: An Introduction to Technical Analysis* fully prepares you to demonstrate the basic competencies of an entry-level analyst, including a working knowledge of terminology and the ability to discuss key concepts and fundamental analytical tools. Covered topics address theory and history, markets, market indicators, construction, confirmation, cycles, selection and decision, system testing, and statistical analysis. The Level I exam emphasizes trend, chart, and pattern analysis.

This cornerstone guidebook of the Chartered Market Technician® Program will provide every advantage to passing the Level I CMT Exam.



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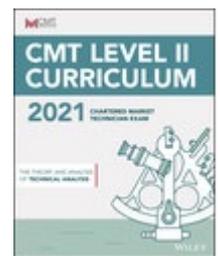
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This cornerstone guidebook of the Chartered Market Technician® Program will provide every advantage to passing Level II CMT Exam.



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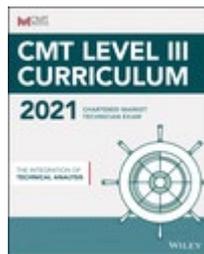
The Integration of Technical Analysis

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### Everything you need to pass Level III of the CMT Program

*CMT Level III 2021: The Integration of Technical Analysis* fully prepares you to demonstrate competency integrating basic concepts in Level I with practical applications in Level II, by using critical analysis to arrive at well-supported, ethical investing and trading recommendations. Covered topics include: asset relationships, portfolio management, behavioral finance, volatility, and analysis. The Level III exam emphasizes risk management concepts as well as classical methods of technical analysis. This cornerstone guidebook of the Chartered Market Technician® Program will provide every advantage to passing Level III CMT Exam.



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## The Successful Trader's Guide to Money Management

Proven Strategies, Applications, and Management Techniques

ANDREA UNGER

The book describes the various operating methods used by traders and professional investors to calculate how much of their capital can be used in individual transactions. Money management is a fundamental aspect for managing risks faced by any trader when operating on the various financial markets. Most operators, in fact, focus on identifying the operational set-ups (entry levels, stop-loss, take profit, trailing-stop) and do not consider the impact, very often decisive, that a proper money management could have on the final results of its operations. Successful traders focus on risk management, avoiding opening positions that are too large with respect to the total capital they have available. Packed with practical examples and with special focus on money management or position-sizing, *The Successful Trader's Guide to Money Management* offers a comprehensive coverage of the widely practiced investment techniques, examining their strengths and weaknesses and explains the various operating models, in particular, the Fixed Fractional, Fixed Ratio and Percent Volatility models. With respect to portfolio management, it provides a thorough analysis and discussion on the Core Equity, Total Equity and Reduced Total Equity models. The book also offers essential tips for building and designing a trading system, trading on Forex and choosing a broker.

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Trading

## Artificial Intelligence for Asset Management and Investment

A Strategic Perspective

AL NAQVI

**Make AI technology the backbone of your organization to compete in the Fintech era**

The rise of artificial intelligence is nothing short of a technological revolution. AI is poised to completely transform asset management and investment banking, yet its current application within the financial sector is limited and fragmented. Existing AI implementations tend to solve very narrow business issues, rather than serving as a powerful tech framework for next-generation finance.

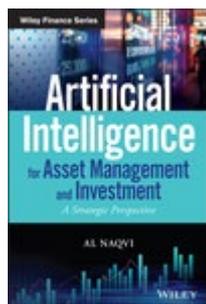
*Artificial Intelligence for Asset Management and Investment* provides a strategic viewpoint on how AI can be comprehensively integrated within investment finance, leading to evolved performance in compliance, management, customer service, and beyond.

No other book on the market takes such a wide-ranging approach to using AI in asset management. With this guide, you'll be able to build an asset management firm from the ground up--or revolutionize your existing firm--using artificial intelligence as the cornerstone and foundation. This is a must, because AI is quickly growing to be the single competitive factor for financial firms. With better AI comes better results. If you aren't integrating AI in the strategic DNA of your firm, you're at risk of being left behind.

Until now, it has been prohibitively difficult to map the high-tech world of AI onto complex and ever-changing financial markets. *Artificial Intelligence for Asset Management and Investment* makes this difficulty a thing of the past, providing you with a professional and accessible framework for setting up and running artificial intelligence in your financial operations.

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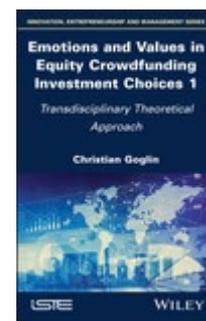


## Emotions and Values in Equity Crowdfunding Investment Choices 1

Transdisciplinary Theoretical Approach

CHRISTIAN GOGLIN

Equity crowdfunding is a new way for seed stage start-ups to generate initial capital and, as such, raises questions around the choices made by investors within this area. Understanding it is important for investor protection, as investors are generally unaware of the factors that can influence their decisions. However, investing in equity crowdfunding places the investor in a unique decision-making framework, in which resources such as images, videos and storytelling are all mobilized by entrepreneurs and platforms as tools of persuasion. This context thus seems to favor more holistic and emotional decision-making, rather than a process that is rational and analytical. This first volume centers on the emotional and axiological determinants of choice. A transdisciplinary theoretical analysis is carried out, combining different fields within the social sciences, primarily finance, marketing and psychology. This state of the art leads to the emergence of an original theoretical framework for understanding investment choices in equity crowdfunding.



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Finance & Investments Special Topics

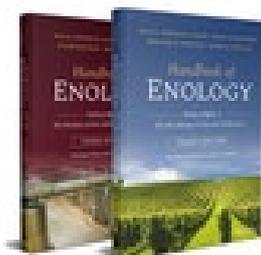
## Handbook of Enology

3rd Edition

PASCAL RIBÉREAU-GAYON, DENIS DUBOURDIEU, FRANCE,  
BERNARD B. DONECHE, ALINE A. LONVAUD, YVES GLORIES,  
FRANCE, ALAIN MAUJEAN, FRANCE & TRANSLATOR JOHN TOWEY

Victor Segalen University of Bordeaux II, France; Victor  
Segalen University of Bordeaux II, France; Laboratoire  
d'Oenologie de l'Université de Reims-Champagne-Ardennes

As an applied science, Enology is a collection of knowledge from the fundamental sciences including chemistry, biochemistry, microbiology, bioengineering, psychophysics, cognitive psychology, etc., and nourished by empirical observations. The approach used in the *Handbook of Enology* is thus the same. It aims to provide practitioners, winemakers, technicians and enology students with foundational knowledge and the most recent research results. This knowledge can be used to contribute to a better definition of the quality of grapes and wine, a greater understanding of chemical and microbiological parameters, with the aim of ensuring satisfactory fermentations and predicting the evolution of wines, and better mastery of wine stabilization processes. As a result, the purpose of this publication is to guide readers in their thought processes with a view to preserving and optimizing the identity and taste of wine and its aging potential. This third English edition of *The Handbook of Enology*, is an enhanced translation from the 9<sup>th</sup> French 2017 edition, and is published as a two-volume set describing aspects of winemaking using a detailed, scientific approach. The authors, who are highly-respected enologists, examine winemaking processes, theorizing what constitutes a perfect technique and the proper combination of components necessary to produce a quality vintage. They also illustrate methodologies of common problems, revealing the mechanism behind the disorder, thus enabling a diagnosis and solution. The target audience includes advanced viticulture and enology students, professors and researchers, and practicing grape growers and vintners.



## Handbook of Enology: Volume 1

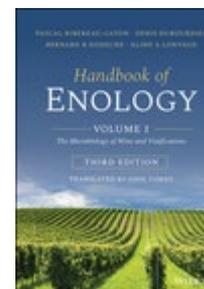
The Microbiology of Wine and Vinifications

3rd Edition

PASCAL RIBÉREAU-GAYON, DENIS DUBOURDIEU, FRANCE,  
BERNARD B. DONECHE, ALINE A. LONVAUD & TRANSLATION  
EDITOR JOHN TOWEY

Victor Segalen University of Bordeaux II, France

**Volume 1:** *The Microbiology of Wine and Vinifications* addresses the first phase of winemaking to produce an "unfinished" wine: grading grape quality and maturation, yeast biology then adding it to the grape crush and monitoring its growth during vinification; and identifying and correcting undesired conditions, such as unbalanced lactic and acetic acid production, use of sulfur dioxide and alternatives, etc.



Coverage includes: Wine microbiology; Yeasts; Yeast metabolism; The conditions for the development of yeasts; Lactic acid bacteria, their metabolism and their development in wine; Acetic bacteria; The use of sulfur dioxide in the treatment of musts and wines; Products and processes acting in addition to sulfur dioxide; Winemaking; The grape and its maturation; Harvesting and processing of grapes after harvest; Vinification in red and white wine making. The target audience includes advanced viticulture and enology students, professors and researchers, and practicing grape growers and vintners.

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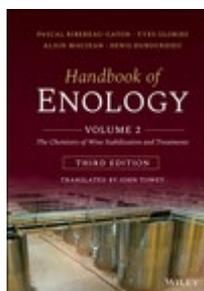
## Handbook of Enology, Volume 2

The Chemistry of Wine Stabilization and Treatments, 3rd Edition

PASCAL RIBÉREAU-GAYON, DENIS DUBOURDIEU, FRANCE, YVES GLORIES, FRANCE, ALAIN MAUJEAN, FRANCE & TRANSLATION EDITOR JOHN TOWEY

Victor Segalen University of Bordeaux II, France; Victor Segalen University of Bordeaux II, France; Laboratoire d'Oenologie de l'Université de Reims-Champagne-Ardennes

**Volume 2: *The Chemistry of Wine and Stabilization and Treatments*** looks at the wine itself in two parts. Part One analyzes the chemical makeup of wine, including organic acids, alcoholic, volatile and phenolic compounds, carbohydrates, and aromas. Part Two describes the procedures necessary to achieve a perfect wine: the clarification processes of fining, filtering and centrifuging, stabilization, and aging.



Coverage includes: Wine chemistry; Organic acids; Alcohols and other volatile products; Carbohydrates; Dry extract and mineral matter; Nitrogen substances; Phenolic compounds; The aroma of grape varieties; The chemical nature, origin and consequences of the main organoleptic defects; Stabilization and treatment of wines; The chemical nature, origin and consequences of the main organoleptic defects; The concept of clarity and colloidal phenomena; Clarification and stabilization treatments; Clarification of wines by filtration and centrifugation; The stabilization of wines by physical processes; The aging of wines in vats and in barrels and aging phenomena. The target audience includes advanced viticulture and enology students, professors and researchers, and practicing grape growers and vintners.

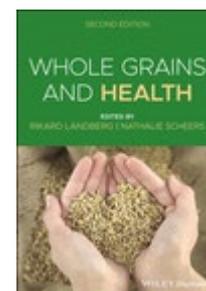
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GENERAL & INTRODUCTORY FOOD SCIENCE & TECHNOLOGY

## Whole Grains and Health

EDITOR RIKARD LANDBERG & EDITOR AFAF KAMAL-ELDIN

United Arab Emirates University

**The updated guide to whole grains and their integral role in nutritional health**



In an increasingly health-conscious society, the potential benefits of whole grain products are of paramount importance to manufacturers, dieticians, and consumers alike. *Whole Grains and Health* covers all aspects of this crucial topic, presenting a data-driven study of whole grains' functional components, associated biomarkers and overall impact upon human health. Now in its second edition, the text has been revised and expanded to include six new chapters and groundbreaking new data. This essential guide features:

- Summaries of large research projects on the health effects of whole grain in Europe and the US
- New data on the associations between whole grain consumption and risk of developing chronic diseases
- Discussions of metabolomics and their use in addressing health effects and finding new biomarkers of both dietary exposure and health effects related to the diet
- Information on the use of genomics in studies of how gene-expression profiles change in response to whole grain intake
- Newly identified bioactive compounds in whole grains and whole grain fractions
- The new EU regulations on health claims that affect whole grain food products

Providing information that will be of interest to food scientists, healthcare specialists and food industry professionals alike, the second edition of *Whole Grains and Health* is an essential resource for anyone concerned with the impact whole grains may have upon health.

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Bakery & Cereals

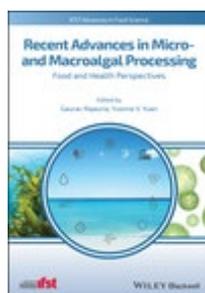
## Recent Advancements in Algal Processing

Food and Health Perspective

GAURAV RAJAURIA & YVONNE V. YUAN

**A comprehensive review of algae as novel and sustainable sources of algal ingredients, their extraction and processing**

This comprehensive text that offers an in-depth exploration of the research and issues surrounding the consumption, economics, composition, processing and the health effects of algae. With contributions from an international team of experts, the book explores the application of conventional and emerging technologies for algal processing. The book includes recent developments such as drying and milling technologies along with advancements in sustainable greener techniques.



The text also highlights individual groups of compounds including polysaccharides, proteins, polyphenols, carotenoids, lipids and fibres from algae. The authors provide insightful reviews of the traditional and more recent applications of algae/algal extracts in food, feed, pharmaceutical and cosmetics products. Offering a holistic view of the various applications, the book looks at the economic feasibility, market trends and considerations, and health hazards associated with algae for industrial applications.

Written for food scientists, allied researchers and professional food technologists, this book offers a guide to the novel processing and extraction techniques for exploring and harnessing the immense potential of algae.

[Edit](#)

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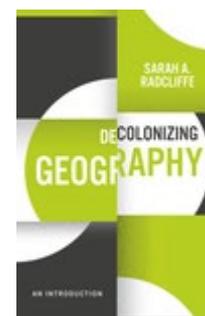
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An Introduction

SARAH A. RADCLIFFE

READERSHIP: Undergraduate and postgraduate geography students and university teaching staff in the Anglosphere.

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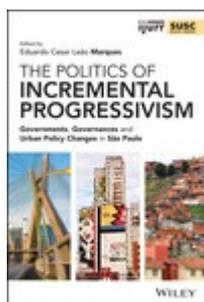


## The Politics of Incremental Progressivism

Governments, Governances and Urban Policy  
Changes in Sao Paulo

EDUARDO CESAR LEÃO MARQUES

*The Politics of Incremental Progressivism* analyzes urban policies in São Paulo - one of the biggest and most complex Southern cities - not only challenging the misconception that large metropolises of the Global South are usually ungovernable, but showing the recent occurrence of progressive change.



- The first detailed and systematic account of the policies and politics that construct, maintain and operate a large Southern metropolis
- Analyzes the policies of bus and subway transportation, traffic control, waste collection, development licensing, public housing and large urban projects, additionally to budgeting, electoral results and government formation and dynamics
- Contains original researches about urban policies in a Southern metropolis, and a theoretical focus that bridges the gap between political science and urban studies
- Contributes to the understanding of how the city is governed, what kinds of policies its governments construct and deliver and, more importantly, under what conditions it produces redistributive change in the direction of policies that reduce its striking social and urban inequalities

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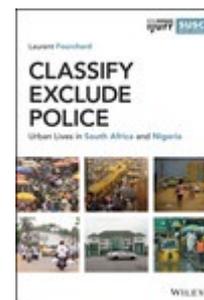
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Urban Lives in South Africa and Nigeria

LAURENT FOURCHARD

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- Examines the limits and effects of public action in urban settings and explores comparisons between cities commonly viewed as incommensurable
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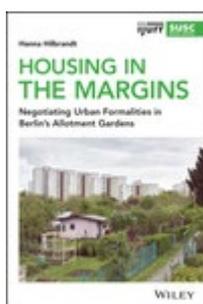
## Housing in the Margins

Negotiating Urban Formalities in Berlin's Allotment Gardens

HANNA HILBRANDT

*Housing in the Margins* is a rich and original empirical data on the governance of housing precarity at the periphery of Berlin.

- One of the few discussions of urban informality in Euro-American cities
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- A historically informed narrative of the development of allotments in Berlin



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Urban Geography

## Respatialising Finance

Power, Politics and Offshore Renminbi Market Making in London

SARAH HALL

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- Examines how political authorities in both London and Beijing identified the potential value of London's international financial centre in facilitating and legitimising RMB internationalisation
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- Illustrates how financial centres are not simply containers and facilitators of global financial flows --- rather they serve as territorial fixes within the dynamic and crisis-prone nature of global finance
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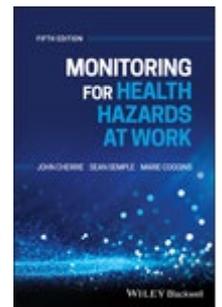
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## Monitoring for Health Hazards at Work

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*Monitoring for Health Hazards at Work* remains the seminal textbook on measuring and controlling the risk of workplace exposure to physical, chemical, and biological hazards. Designed for students studying occupational hygiene and exposure science, this comprehensive and accessible volume provides step-by-step guidance on identifying hazards and quantifying their risks in various workplace environments. Complete with checklists and practical examples, the authors present clear explanations of all types of hazards that can arise in the workplace, including dust, particles, fibrous aerosols, gases, vapours, and bioaerosols.



The fifth edition features revised material throughout, and remains an essential resource for students and professionals in occupational hygiene, reflecting global standards and recent developments in monitoring equipment, modelling methods, exposure assessment, and legislation on workplace safety.

*Monitoring for Health Hazards at Work*, is required reading for students and professionals in occupational hygiene, environmental health and safety, occupational health and safety, and exposure science.

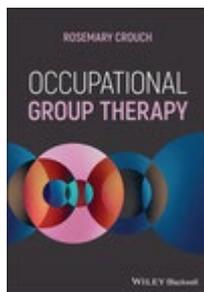
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OCCUPATIONAL HEALTH & SAFETY

## 歴史

**Occupational Group Therapy**

ROSEMARY CROUCH

*Occupational Group Therapy* helps group leaders achieve a higher and more dynamic level of therapeutic intervention, gain a better understanding of foundational concepts and research, and utilise active techniques that have meaningful and lasting effects on their clients. This practical guide encourages readers to use and develop their skills creatively in a range of interventions, including hospital-based work with acutely ill clients, physical acute care, and rehabilitation.



The text presents both the theoretical background and practical applications of occupational group therapy: core skills and concepts, styles of group leadership, clinical and ethical reasoning, and different models of therapy such as the functional group model, the model of human occupation (MOHO), and the occupational therapy interactive group model (OTIGM), alongside warm-up and ice-breaker techniques, role-play exercises, assertiveness and social skills training strategies, guidance on using psychodrama and the therapeutic spiral model (TSM) in group settings, and more.

Written by an esteemed expert with decades of practical experience in the field, with a chapter from Louise Fouché, an accomplished occupational group therapist and developer of OTIGM, and foreword by Professor Emerita Sharon Brintnell, former President of World Federation of Occupational Therapy (WFOT): *Occupational Group Therapy* is a must-have teaching manual and guide for undergraduate and post-graduate occupational therapy students, and for practitioners looking to increase their use of group work as a therapeutic intervention.

APRIL 2021 240PP  
978-1-119-59143-6 PB \$65.00 (Japan)  
Occupational Therapy

**The British Prime Minister in an Age of Upheaval**

MARK GARNETT

READERSHIP: Students of British Politics and general readers interested in UK current affairs, politics and modern history.

APRIL 2021 288PP  
978-1-5095-3935-2 CL \$60.00 (Japan)  
978-1-5095-3936-9 PB \$28.95 (Japan)  
20th Century & Contemporary British History

**The Scent of Empire**

Chanel No. 5 and Red Moscow

KARL SCHLOGEL &amp; TRANSLATED BY JESSICA SPENGLER

READERSHIP: A wide general readership interested in modern history

APRIL 2021 220PP  
978-1-5095-4659-6 CL \$25.00 (Japan)  
20th Century & Contemporary European History



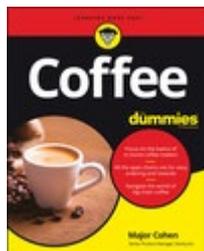
## ライフスタイル

**Coffee For Dummies**

MAJOR COHEN

*Coffee For Dummies* will cover a wide variety of topics within the coffee industry, giving readers the basics in everything they need to know from:

- In home coffee makers, to gourmet coffee, to big coffee chains, and finally smaller boutique coffee houses.
- Different roasts and brews
- Navigating a coffee shop the menu for best deals and drinks
- The difference between a half-cap-low-fat-no-sugar-add- whip.....and a latte?



APRIL 2021 UnknownPP  
978-1-119-67901-1 PB \$19.99 (Japan)  
Food & Drink (general)

**Parrots For Dummies**

2nd Edition

NIKKI MOUSTAKI

**Repeat after me: Parrots aren't just for pirates!**

While parrots have a historical reputation for being a pirate's best friend, in the modern-day U.S.--where birds are the nation's third most popular household pet--thousands of landlubbers are in on the act! And that's not surprising--parrots are as affectionate, friendly, and fun to be with as a dog or cat. They are also relatively low-maintenance, with no rude 5 a.m. awakenings with demands for food or punishing walks.

Renowned avian care and behavior consultant Nikki Moustaki is your friendly guide to the colorful world of this intelligent and chatty pet. In this book, you'll be introduced to the vibrant diversity of the parrot world, which covers a wide variety of Psittacidae family members, including macaws, cockatiels, and parakeets. You'll also learn the best ways to choose, care for, and love your resplendently feathered companion.

- Pick your perfect parrot
- Devour the latest on nutrition
- Tame and train
- Make the perfect home

Whether you're just setting out in the parrot world or are a seasoned voyager on the parrot-y seas, this 2nd edition of *Parrots For Dummies* has something for you and your pet--and will repay the hard-won pirate gold you spent on it a thousand times over!

APRIL 2021 384PP  
978-1-119-75361-2 PB \$24.99 (Japan)  
PET CARE / BIRDS



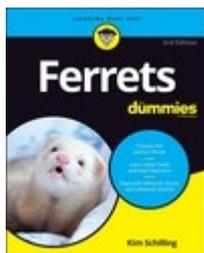
## Ferrets For Dummies

3rd Edition

KIM SCHILLING

### Everything you need to know about your playful new pet

Thinking of getting a ferret? It's not unusual--millions of people worldwide keep ferrets as pets, and they've been domesticated for around 2,500 years! While they're quiet for a lot of the day (catching up on important beauty sleep), when they're awake, they're lively, affectionate, and curious--and require lots of quality interaction with their humans. And that's why a happy ferret is a well-trained one, whose owner knows everything there is to know about its needs!



*Ferrets For Dummies*, 3<sup>rd</sup> Edition is here to make sure you become just that kind of owner, fully equipped to give your little friend the best possible home. It's packed with practical information on feeding, housing, health, medical care, and much more. You'll also find the latest on diet, dental hygiene, common ailments, and how to build an enjoyable and engaging environment for your smart, energetic new pet. There's even a section on how to get to know your ferret properly (spotting those little mood swings) and how to introduce it to play well with friends and family.

- Make sure a ferret's the pet for you
- Ferret-proof your home
- Keep a clean house
- Find the right vet

Whether you have a jill (female), a hob (male), or a full "business" of ferrets (several), *Ferrets For Dummies* helps you ferret out whatever you need to know--and ensure that your fuzzy new pal is a healthy, happy member of the household

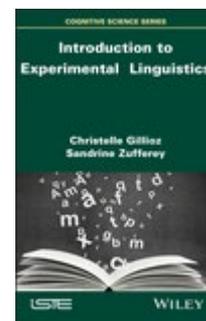
APRIL 2021 424PP  
978-1-119-72083-6 PB \$24.99 (Japan)  
PET CARE / OTHER ANIMALS

## Introduction to Experimental Linguistics

CHRISTELLE GILLIOZ & SANDRINE ZUFFEREY

The use of experimental methodology in the field of linguistics has boomed in recent decades. However, implementation of such methods does require an understanding and mastery of specific theoretical and methodological principles.

*Introduction to Experimental Linguistics* presents the key concepts of experimental linguistics in an accessible way, addressing, in turn: the application of experimentation in linguistics; the techniques most frequently used for the study of language; the methodological and practical aspects useful for the implementation of an experiment; and an introduction to the analysis of quantitative data derived from experiments. This didactic book combines the elements presented with examples drawn from the various fields of linguistics. It also includes a number of resources available for people who wish to implement an experimental study, more advanced reading suggestions, and revision questions along with their answer key.

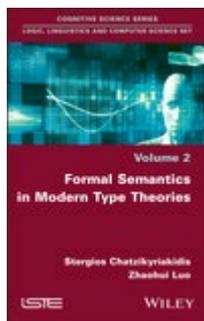


APRIL 2021 272PP  
978-1-78630-418-6 CL \$165.00 (Japan)  
General & Introductory Linguistics

## Formal Semantics in Modern Type Theories    An Introduction to Sociolinguistics

STERGIOS CHATZIKYRIAKIDIS & ZHAOHUI LUO

This book studies formal semantics in modern type theories (MTTsemantics). Compared with simple type theory, MTTs have much richer type structures and provide powerful means for adequate semantic constructions. This offers a serious alternative to the traditional set theoretical foundation for linguistic semantics and opens up a new avenue for developing formal semantics that is both model-theoretic and proof-theoretic, which was not available before the development of MTT semantics. This book provides a reader-friendly and precise description of MTTs and offers a comprehensive introduction to MTT-semantics. It develops several case studies, such as adjectival modification and copredication, to exemplify the attractiveness of using MTTs for the study of linguistic meaning. It also examines existing proof assistant technology based on MTT-semantics for the verification of semantic constructions and reasoning in natural language. Several advanced topics are also briefly studied, including dependent event types, an application of dependent typing to event semantics.



APRIL 2021 256PP  
978-1-78630-128-4 CL \$165.00 (Japan)  
Semantics

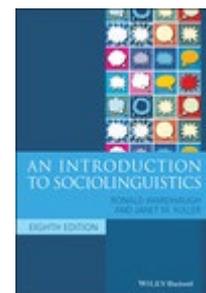
8th Edition

RONALD WARDHAUGH & JANET M. FULLER

University of Toronto; Southern Illinois University Carbondale

**The new edition of the most complete and student-friendly introduction to the field of sociolinguistics, fully revised and updated**

*An Introduction to Sociolinguistics, Eighth Edition*, is a broad overview of the study of language in social context, providing accessible coverage of major concepts, theories, methods, issues, and debates within the field. This leading textbook helps students develop a critical perspective on language in society as they explore the complex connections between societal norms and language use. Organized in four sections, the text covers traditional language issues, broad approaches to research in sociolinguistics, and language in relation to gender and sexuality, education, and policy. The eighth edition contains new and updated discussion of topics including the societal aspects of African American Vernacular English (AAVE), multilingual societies and discourse, gender and sexuality, ideologies and language attitudes, and the social meanings of linguistic forms.



Encouraging students to approach sociolinguistics both empirically and as a way of viewing the world around them, *An Introduction to Sociolinguistics, Eighth Edition*, remains the ideal textbook for upper-level undergraduate and graduate courses in sociolinguistics, language and society, anthropological linguistics, applied and theoretical linguistics, and education.

SERIES: BLACKWELL TEXTBOOKS IN LINGUISTICS

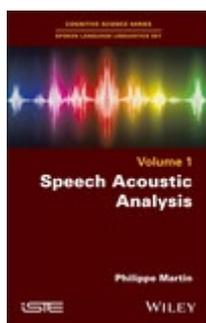
APRIL 2021 456PP  
978-1-119-47342-8 PB \$46.95 (Japan)  
SOCIOLINGUISTICS

## Speech Acoustic Analysis

PHILIPPE MARTIN

Universite de Paris 1 Pantheon-Sorbonne, PSE

The text sets out in simple and accessible terms the various methods of acoustic analysis of speech, placing them in their historical context, allowing a better understanding of the mathematical and technical solutions adopted today in phonetics and experimental phonology. Without mathematical complications, the operating bases of the many speech analysis software currently available are exposed so that everyone can understand the limits and avoid errors and misinterpretations in their implementation.



APRIL 2021 208PP  
978-1-78630-319-6 CL \$165.00 (Japan)  
Speech Science

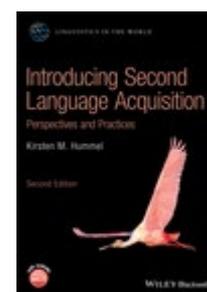
## Introducing Second Language Acquisition

Perspectives and Practices, 2nd Edition

KIRSTEN M. HUMMEL

Laval University, Canada

**An up-to-date overview of second language acquisition, designed to engage 21<sup>st</sup>-century learners**



*Introducing Second Language Acquisition: Perspectives and Practices* provides a clear and comprehensive introduction to the main concepts, issues, and debates in second language acquisition studies. This introductory textbook is aimed specifically at students encountering the topic for the first time. Each chapter offers a modern layout with engaging pedagogical features such as self-assessment and discussion questions, project ideas, and further reading and viewing suggestions.

The second edition of *Introducing Second Language Acquisition: Perspectives and Practices* has been fully updated to reflect the most recent scholarship in the field. It introduces a new structure, featuring separate chapters on theoretical perspectives which cover past and present approaches as well as cognitive approaches. New content also includes sections on skill acquisition theory, translanguaging, second language literacy development, and multilingualism.

With a strong focus on the fundamentals, this second edition of *Introducing Second Language Acquisition* stands as an innovative guide. This book is ideal for today's undergraduate students, offering a practical focus and appealing format that will aid in learning and provide a solid foundation for further study.

SERIES: LINGUISTICS IN THE WORLD

APRIL 2021 336PP  
978-1-119-55413-4 PB \$44.95 (Japan)  
SECOND LANGUAGE ACQUISITION

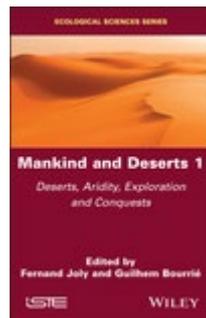
## ライフサイエンス

**Mankind and Deserts 1**

Deserts, Aridity, Exploration and Conquests

EDITOR FERNAND JOLY &amp; EDITOR GUILHEM BOURRIE

The wild beauty of deserts has always been a source of fascination the world over. *Mankind and Deserts 1* - the first of three volumes - describes their location and geographic variety. There are both hot and cold deserts, those at high altitude or those at sea level, differing in climate but sharing the scarcity of water, extreme temperatures and often violent winds.



According to paleoclimate evidence, however, deserts have not always been as arid as they are today. Deserts were a source of inspiration for many spiritual leaders, among them, Moses, Jesus and Muhammad; as well as conquerors, from Alexander the Great to Genghis Khan. Some avoided these deserts, or crossed them as fast as they could. Others adapted to them and developed vibrant civilizations and cities. From ancient, almost mythical, exploration to modern scientific studies, deserts have come to be better known yet still hold great appeal. This book traces the history of their knowledge while providing a basis for understanding their features and the tools needed for their protection, in an ever-changing world.

APRIL 2021 176PP  
978-1-78630-630-2 CL \$165.00 (Japan)  
Ecological Genetics

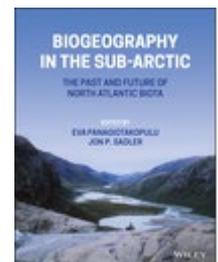
**Biogeography in the Sub-Arctic**

The Past and Future of North Atlantic Biotas

EDITOR DR EVA PANAGIOTAKOPOULU &amp; EDITOR JONATHAN P. SADLER

University of Edinburgh; University of Birmingham, UK

APRIL 2021 448PP  
978-1-118-56147-8 CL \$120.00 (Japan)  
Biogeography



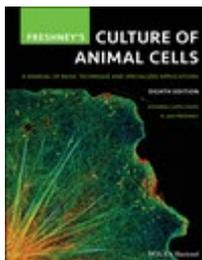
## Freshney's Culture of Animal Cells

A Manual of Basic Technique and Specialized Applications, 8th Edition

AMANDA CAPES-DAVIS & R. IAN FRESHNEY

University of Glasgow, Scotland

Cell culture is the process used to keep cells alive in the laboratory. The process has undergone many changes since its discovery in 1907, as better techniques, equipment, and reagents continue to be developed. Cell culture now relies on a toolkit of techniques (e.g. aseptic technique), equipment (e.g. biosafety cabinet), and reagents (e.g. flasks and growth medium). Cells can be maintained and grown from many species and tissues, ranging from humans to fish, and from skin to brain. New methods and uses are emerging, allowing scientists to grow stem cells and develop more effective models through three-dimensional culture. However, cell culture can be challenging. Problems can affect any cell culture practitioner, even the most seasoned expert. Training is needed to ensure aseptic conditions, skilled handling, and an awareness of safety issues and of the purity and identity of the material being handled.



New in the 8th edition:

1. A new chapter will examine the origin and evolution of cell cultures and cell lines. This will consist of existing content that will be moved from elsewhere, and new content on stem cell behavior and induced pluripotent stem cells.
2. A new chapter will discuss irreproducible research, its causes, and the importance of good cell culture practice. Previous editions have included a great deal of information on these topics. Moving existing content to a dedicated chapter will give a stronger focus on reproducibility and good cell culture practice.
3. An existing chapter will be modified to provide a new focus on gene delivery and gene editing, with particular emphasis on CRISPR/Cas9.
4. Updates will be made to techniques and applications throughout the book, including live cell imaging, genotyping, stem cell culture, three-dimensional culture, microfluidics, high-throughput screening, and toxicity testing.

APRIL 2021 832PP  
978-1-119-51301-8 CL \$115.00 (Japan)  
CELL & MOLECULAR BIOLOGY

## The Science of Health Disparities Research

EDITOR ELISEO PÉREZ-STABLE, EDITOR IRENE DANKWA-MULLAN, EDITOR KEVIN GARDNER, EDITOR XINZHI ZHANG & EDITOR ADELAIDA M. ROSARIO

**Integrates the various disciplines of the science of health disparities in one comprehensive volume**

*The Science of Health Disparities Research* is an indispensable source of up-to-date information on clinical and translational health disparities science. Building upon the advances in health disparities research over the past decade, this authoritative volume informs policies and practices addressing the diseases, disorders, and gaps in health outcomes that are more prevalent in minority populations and socially disadvantaged communities. Contributions by recognized scholars and leaders in the field—featuring contemporary research, conceptual models, and a broad range of scientific perspectives—provide an interdisciplinary approach to reducing inequalities in population health, encouraging community engagement in the research process, and promoting social justice.



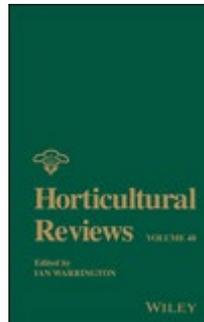
In-depth chapters help readers better understand the specifics of minority health and health disparities while demonstrating the importance of advancing theory, refining measurement, improving investigative methods, and diversifying scientific research. In 26 chapters, the book examines topics including the etiology of health disparities research, the determinants of population health, research ethics, and research in African American, Asians, Latino, American Indian, and other vulnerable populations. A significant contribution to the field, *The Science of Health Disparities Research* is an essential resource for students and basic and clinical researchers in genetics, population genetics, and public health, health care policymakers, and epidemiologists, medical students, and clinicians, particularly those working with minority, vulnerable, or underserved populations.

APRIL 2021 528PP  
978-1-119-37481-7 CL \$199.95 (Japan)  
Human Genetics

**Horticultural Reviews**

Volume 48

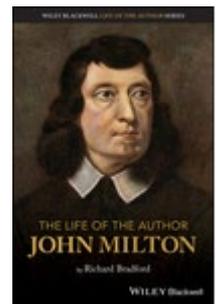
SERIES EDITOR IAN WARRINGTON

SERIES: HORTICULTURAL  
REVIEWSAPRIL 2021 480PP  
978-1-119-75077-2 CL \$245.00 (Japan)  
Plant Science**John Milton**

RICHARD BRADFORD

University of Ulster, Coleraine

The first part of the book provides an account of how John Milton was aware of his destiny as a major English poet and how his literary life intersected with his role as a key figure in the transformative period of British history, the Civil War and the Cromwellian protectorate. The second part, of almost equal length, called 'Lives after Death,' examines how biographers and critics have over the past three centuries created different competing portraits of him.



SERIES: THE LIFE OF THE AUTHOR

APRIL 2021 168PP  
978-1-119-62156-0 PB \$24.95 (Japan)  
Literary Biography

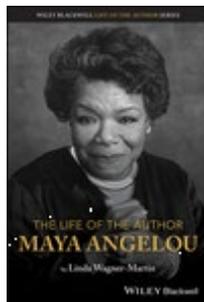
## Maya Angelou

LINDA WAGNER-MARTIN, CHAPEL HILL, UNITED STATES

University of North Carolina at Chapel Hill, USA

**Discover the remarkable life of Maya Angelou with a highly personal and detailed account of her challenges and triumphs**

*The Life of the Author: Maya Angelou* delivers an engaging and thorough retelling of the life and work of the celebrated and accomplished writer, director, and essayist. The book offers readers an engrossing retelling of Maya Angelou's entire life, from her time as a child in the segregated town of Stamps, Arkansas, to her death in 2014 in Winston-Salem.



Written with an emphasis on accessibility, the author avoids critical theory to the extent possible and focuses on the human side of Maya Angelou's growth as a person and writer. This inspirational book tells the story of a young black woman overcoming poverty and endemic structural and personal obstacles to lead a life full of accomplishment and meaning.

Readers will also enjoy:

- A thorough retelling of the time Maya Angelou spent in Africa and how it shaped her views and work
- An exploration of the screenplays written by Maya Angelou
- Discussions of Maya Angelou's early life as a dancer, singer, writer and mother
- Accounts of Maya Angelou's writing and production of television shows
- A fulsome treatment of Maya Angelou's work, including her poems, autobiographies, films, music, and theatre

Perfect for any of the millions of people who love Maya Angelou and her work, *The Life of the Author: Maya Angelou* will also earn a place in the libraries of biography and literature enthusiasts who seek to improve their understanding of the life and story of Maya Angelou with a highly personal and accessible new book.

SERIES: THE LIFE OF THE AUTHOR

APRIL 2021 224PP  
978-1-119-62910-8 PB \$24.95 (Japan)  
Literary Biography

## Shakespeare

ANNA BEER

A fresh take on a familiar subject -- this biography of Shakespeare brings to the foreground his working life as a poet, playwright and actor, explores the nature of his relationships with friends, colleagues and family, and asks important questions about the evidence that we have, and the stories we tell, about William Shakespeare, the man.



SERIES: THE LIFE OF THE AUTHOR

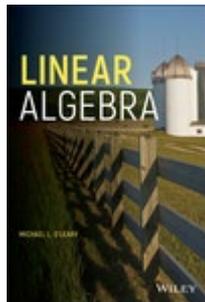
APRIL 2021 168PP  
978-1-119-60521-8 PB \$24.95 (Japan)  
Shakespeare

## Linear Algebra

MICHAEL L. O'LEARY

College of DuPage

This book is an introductory textbook in linear algebra. The authors begin with a primer on logic and set theory in the first two chapters. Functions are also covered early so that the core topic of linear transformations can be introduced near the beginning of the book and serve as a motivation to solving systems of equations. Next, Euclidean Spaces and functions between Euclidean Spaces are covered. This includes specific discussions on vectors and the standard basis, vector algebra, Pythagoras, and matrix transformations. Invertible Linear Transformations are then examined, along with Spaces without Geometry. This section includes a discussion of subspaces, linear independence, and change of basis. The authors then cover functions between spaces and geometry on vector spaces. Simplifying linear transformations is then discussed. The book concludes with two advanced chapters covering matrix theory and more general algebraic structures.



APRIL 2021 464PP  
978-1-119-43744-4 CL \$120.00 (Japan)  
Linear Algebra

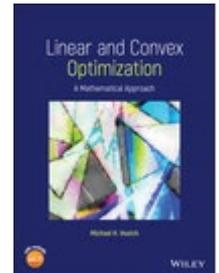
## Linear and Convex Optimization

A Mathematical Approach

MICHAEL H. VEATCH

**Discover the practical impacts of current methods of optimization with this approachable, one-stop resource**

*Linear and Convex Optimization: A Mathematical Approach* delivers a concise and unified treatment of optimization with a focus on developing insights in problem structure, modeling, and algorithms. Convex optimization problems are covered in detail because of their many applications and the fast algorithms that have been developed to solve them.



Experienced researcher and undergraduate teacher Mike Veatch presents the main algorithms used in linear, integer, and convex optimization in a mathematical style with an emphasis on what makes a class of problems practically solvable and developing insight into algorithms geometrically. Principles of algorithm design and the speed of algorithms are discussed in detail, requiring no background in algorithms.

The book offers a breadth of recent applications to demonstrate the many areas in which optimization is successfully and frequently used, while the process of formulating optimization problems is addressed throughout.

Ideal for upper level undergraduate mathematics majors with an interest in practical applications of mathematics, this book will also appeal to business, economics, computer science, and operations research majors with at least two years of mathematics training.

APRIL 2021 384PP  
978-1-119-66404-8 CL \$130.00 (Japan)  
Linear Algebra

## メディカル・サイエンス

**How to Succeed in Medical Research**

A Practical Guide

ROBERT FOLEY, ROBERT MAWENI, SHAHRAM SHIRAZI &amp; HUSSEIN JAAFAR

*How to Succeed in Medical Research* is a concise, practical guide to getting involved with research, essential for progressing your medical career.

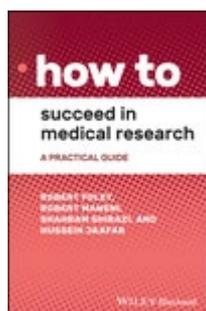
Packed with case studies and real-world examples, this hands-on text is ideal for readers that want to directly apply the content in their own studies and careers. The authors explore everything from finding the right research mentor and writing papers, to literature reviews and critical appraisals, all written in a conversational and concise style -- perfect for the busy reader.

- \* Online access to templates for posters and oral presentations
- \* Helpful learning features including objectives, key points and case studies
- \* Essential roadmap for progressing your medical career and standing out from the crowd

*How to Succeed in Medical Research* is an ideal resource for medical students, junior doctors and other early-career professionals.

SERIES: HOW TO

APRIL 2021 180PP  
978-1-119-64549-8 PB \$34.95 (Japan)  
Clinical & Experimental Medical Research

**How to Pass the FRACP Written Examination**

JONATHAN GLEADLE, JORDAN LI, DANIELLE WU &amp; PAUL KLEINIG

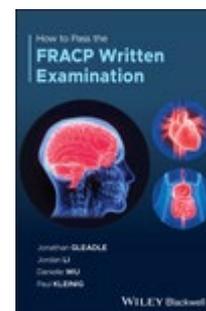
Welcome Trust for Human Genetics - Oxford; Senior Lecturer at Flinders University, and Consultant Physician and Nephrologist at Flinders Medical Centre, Adelaide; Registrar in Nephrology at the Royal Adelaide Hospital

*How to Pass the FRACP Written Examination* is an indispensable review and study guide for anyone preparing for the challenging Fellow of the Royal Australasian College of Physicians (FRACP) exam. This up-to-date resource fully aligns with the current FRACP core training curriculum, containing a wealth of traditional multiple-choice questions (MCQs) as well as extended-matching questions (EMQs). There are hundreds of questions for every major topic of the written examination, including critical care medicine, cardiology, infectious diseases, immunology and allergy, neurology, and pharmacology.

More than a simple practice exam, this guide provides clear and complete explanations of each answer, a mini-review of the subject, and links to the most recent or relevant articles on the topic. Complementing the main body of questions are a number of teaching' and two-step questions--designed to strengthen clinical reasoning skills, highlight important issues, and expand knowledge of contemporary hot' topics.

Covering both the Basic Sciences' and Clinical Practice' of the latest exam, *Passing the FRACP Written Examination* is an essential companion for FRACP candidates as well as those looking to refresh, improve, or update their knowledge of the FRACP syllabus.

APRIL 2021 480PP  
978-1-119-59950-0 PB \$70.00 (Japan)  
Medical Professional Development



## Cardiac Pacing, Defibrillation and Resynchronization

A Clinical Approach

4th Edition

EDITOR DAVID L. HAYES, EDITOR SAMUEL J. ASIRVATHAM &  
EDITOR PAUL A. FRIEDMAN

Mayo Clinic and Mayo Clinic College of Medicine, Rochester,  
MN, USA; Mayo Clinic College of Medicine; Mayo Clinic  
College of Medicine

**A practical and up-to-date guide to pacemaker technology and its clinical implementation**

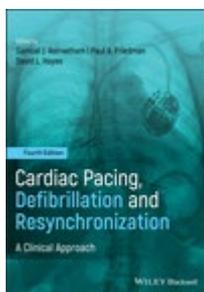
As the field of cardiology continues to advance and expand, so too does the technology and expertise behind today's electrophysiological devices.

*Cardiac Pacing, Defibrillation and Resynchronization* has been assembled by international specialists to give all those caring for patients with heart disorders a clear and informative guide to the pacemakers and clinical methods of today. Now in its fourth edition, this essential resource:

- Explains different methods of pacemaker implementation in a straightforward and easy-to-follow manner
- Explores the most common challenges faced by working clinicians
- Features more than 750 illustrative graphics
- Contains data on the efficacy and long-term outcomes of different device models
- Covers new technology and clinical trial data

Written for cardiologists, cardiac pacing caregivers, and those preparing to take their electrophysiology board examinations, *Cardiac Pacing, Defibrillation and Resynchronization* offers a complete exploration of electrophysical devices and their vital role in modern-day cardiology.

APRIL 2021 688PP  
978-1-119-26396-8 CL \$99.95 (Japan)  
Electrophysiology



## Aortic Stenosis Percutaneous Intervention

Complications and Solutions

EDITOR MARCO ZIMARINO, EDITOR RON WAKSMAN, EDITOR  
IGNACIO AMAT-SANTOS & EDITOR CORRADO TAMBURINO

Director, Cardiovascular Research Institute, Georgetown  
University School of Medicine, Washington DC

**A Practical Guide to Prevention and Treatment of Complications during Transcatheter Aortic Valve Implantation**

Calcific aortic stenosis (AS) is the most common heart valve anomaly, with a largely age-dependent prevalence, a calculated annual incidence rate in the range of 4-5% in general populations and up to 6% in patients aged 75 years and over.

Surgical aortic valve replacement (SAVR) was previously the only option available to patients with symptomatic, severe aortic stenosis. After the first-in-human transcatheter aortic valve implantation (TAVI) was performed by Alain Cribier in 2002, the treatment strategy for patients with symptomatic AS has been revolutionized. Since then, TAVI has grown exponentially, as a result of accruing evidence demonstrating safety and efficacy, and reduced invasiveness compared with SAVR. TAVI devices are continuously expanding to include several valve design options. As this strategy is continuously evolving to treat younger patients and lower-risk populations, aside from the long-term durability of the valve systems, procedural safety will become the focus of newer-generation devices.

This book is a practical handbook devoted to the optimization of TAVI procedures, through a focused containment of complications. Through an integrated evaluation of the clinical status, imaging techniques and laboratory findings, the authors provide readers with clear messages on preventive and therapeutic recommendations.

APRIL 2021 384PP  
978-1-119-72059-1 CL \$175.00 (Japan)  
Interventional Cardiology

## Transcatheter Mitral Valve Therapies

EDITOR RON WAKSMAN & EDITOR TOBY ROGERS

Director, Cardiovascular Research Institute, Georgetown University School of Medicine, Washington DC

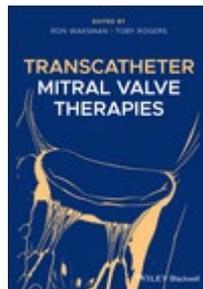
### An essential survey of the advancing field of transcatheter mitral valve repair and replacement

Minimally invasive transcatheter therapies have revolutionized the treatment of structural heart disease. Greatly improving outcomes for higher-risk patients, transcatheter aortic valve replacement is now established as a safe and effective alternative to invasive surgery. The mitral valve, however, poses further challenges. Contending with one of the heart's most anatomically and pathologically complex components, practitioners and engineers have yet to perfect a stream-lined, widely deliverable therapy -- though they are getting closer and closer to this goal.

*Transcatheter Mitral Valve Therapies* provides a far-reaching survey of the field of mitral interventions in its current state. Highlighting the stumbling blocks preventing transcatheter mitral valve replacement's widespread adoption, the book's international group of contributors discuss the improvements to be made in repair and replacement procedures, as well as the adjunctive use of imaging and pharmacologic therapies.

*Transcatheter Mitral Valve Therapies* is an important, up-to-date resource for interventional cardiologists, as well as all clinical researchers and practitioners seeking information on this vital and developing treatment.

APRIL 2021 384PP  
978-1-119-49068-5 CL \$170.00 (Japan)  
Interventional Cardiology



## Microneedling

EDITOR ELIZABETH B HOUSHMAND

### A complete guide to microneedling and its varied roles in modern aesthetic medicine

Microneedling is an increasingly common procedure in the day-to-day practice of dermatologists across the globe. Minimally invasive and requiring minimal downtime, the process can be used to address a range of cosmetic and dermatologic concerns, including rejuvenation of the skin, transdermal delivery of drugs, skin textural irregularities, luminosity, and treatment of dyschromia, melasma, and scarring. Treatment is administered with pens, rollers, and stamps that have been designed to stimulate the release of growth factors and induce collagen production, working to enhance the appearance of patients of all ages and skin types.

Edited by leading dermatologist Dr. Elizabeth Bahar Houshmand, *Microneedling* brings together practical instruction, top tips, and exciting new research to provide all those working in aesthetic medicine with an essential guide to this multifaceted procedure. The book includes a global approach and insightful discussion of topics including:

- The therapeutic benefit of microneedling when skin injury, disease, or aging causes aesthetic changes in the skin
- The advantages of microneedling, including its decreased risk of pigmentation changes or scarring compared with other procedures
- The practical skills and technology used in the implementation of different microneedling techniques
- Tips for applying microneedling to a wide range of skin types
- The use of microneedling to inject platelet-rich plasma

Based upon the latest research and industry practices, *Microneedling* is an invaluable tool for all dermatologists, dermatologic surgeons, and other aesthetic medicine practitioners looking to provide their patients with the best possible care.

APRIL 2021 208PP  
978-1-119-43192-3 CL \$125.00 (Japan)  
Dermatology



## Rook's Dermatology Handbook

EDITOR CHRISTOPHER M. GRIFFITH, EDITOR TANYA O. BLEIKER,  
EDITOR DANIEL CREAMER, EDITOR JAMES C. INGRAM & EDITOR  
ROSALIND SIMPSON

King's College Hospital, London, UK; University of North  
Carolina

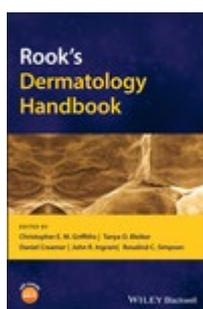
### The reliable quick-reference guide to clinical dermatology

*Rook's Dermatology Handbook* condenses a wealth of clinical expertise into its accessible, user-friendly guide to the diagnosis and management of dermatological disorders. With its contents carefully selected from the much-respected *Rook's Textbook of Dermatology*, this invaluable resource combines precise explanations with visual aids and a concise, quick-reference format to create an everyday tool for practitioners and students alike. This innovative new text:

- Provides quick answers to clinical questions in one concise and practical volume
- Collates and condenses selections from the acclaimed *Rook's Textbook of Dermatology*
- Features helpful illustrations that allow visualization of the clinical features of dermatological conditions
- Highlights essential information with easy-to-navigate tables, charts, and algorithms
- Includes investigations and management sections to help provide the best possible patient care
- Offers access to a complementary companion website

*Rook's Textbook of Dermatology* has been the trusted companion of dermatologists the world over for four decades. *Rook's Dermatology Handbook* builds upon this reputation by making the clinical practice of dermatology more accessible and immediate than ever before.

APRIL 2021 1040PP  
978-1-119-42819-0 PB \$80.00 (Japan)  
Dermatology



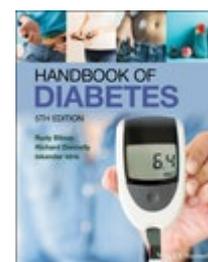
## Handbook of Diabetes

5th Edition

RUDY BILOUS, RICHARD DONNELLY & ISKANDAR IDRIS

Newcastle University, UK; University of Nottingham,  
Nottingham, UK

The *Handbook of Diabetes* provides concise and efficient coverage of the diagnosis, epidemiology, and management of diabetes and its complications. Containing hundreds of attractive colour diagrams, illustrations, and clinical photographs, this popular quick-reference guide focuses on the management and measurement of diabetes mellitus with highly visual references.



Now in its fifth edition, this market-leading book aligns with the most recent guidelines from the American Diabetes Association (ADA), the European Association for the Study of Diabetes (EASD), Diabetes UK, and the National Institute for Health and Care Excellence (NICE), presenting authoritative clinical coverage of diabetes in an accessible format with rich pedagogical features.

- Five new chapters provide detailed coverage of liver disease, diabetes education, bariatric surgery, diabetes and cancer, and the use of incretin-based therapies and SGLT2 Inhibitors in the management of Type II diabetes
- Updated and expanded topics include the relation between hypoglycaemia and dementia, anxiety and depression, the NICE Quality and Outcomes Framework (QOF), and the impacts of diabetes to self-care, mental health, and decision-making
- Provides a wealth of pedagogical features such as vignettes and case histories, important learning points, summaries of key clinical trials, and links to further readings

*Handbook of Diabetes*, remains the essential practical companion for all health professionals involved in managing patients with diabetes, and an up-to-date reference for diabetes and endocrinology researchers, scientists, and academics.

APRIL 2021 272PP  
978-1-118-97604-3 PB \$99.95 (Japan)  
DIABETES

## Practical Pediatric Gastrointestinal Endoscopy

3rd Edition

GEORGE GERSHMAN & MIKE THOMSON

David Geffen School of Medicine at UCLA; University of Sheffield, Sheffield, UK

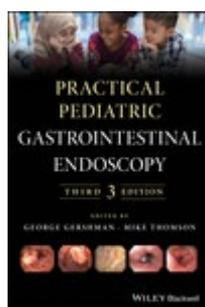
**The reference text for all those practicing diagnostic and therapeutic pediatric endoscopy -- trainees, trainers, specialist endoscopists, gastroenterologists and hepatologists alike.**

*Practical Pediatric Gastrointestinal Endoscopy, 3rd Edition* provides a comprehensive and up-to-date exploration for the performance of endoscopy in infants, children and young adults. Written in the form of a complete "how to" manual and filled with step-by-step instructions, this book seeks to bring newcomers to the field of pediatric gastrointestinal endoscopy quickly up to speed. The book is also highly useful for experienced specialist endoscopists and gastroenterologists to brush up on best practice in standard techniques and explore advanced topics in the field.

*Practical Pediatric Gastrointestinal Endoscopy* highlights the substantial and important differences between performing an endoscopy on a mature adult and performing one in a pediatric patient.

This guide is becoming an essential companion for those of us providing diagnostic and therapeutic endoscopy for children in the world today and opens the door to future possibilities in this ever-evolving field.

APRIL 2021 254PP  
978-1-119-42345-4 CL \$125.00 (Japan)  
GASTROENTEROLOGY



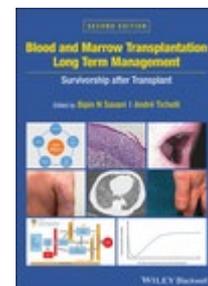
## Blood and Marrow Transplantation Long Term Management

Prevention and Complications, 2nd Edition

EDITOR BIPIN N. SAVANI

Vanderbilt University Medical Center,  
Nashville, TN

APRIL 2021 416PP  
978-1-119-61269-8 CL \$160.00 (Japan)  
HEMATOLOGY



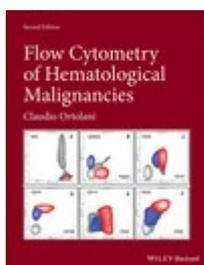
## Flow Cytometry of Hematological Malignancies

2nd Edition

CLAUDIO ORTOLANI

Consultant Clinical Pathologist (retired), Ospedale dell'Angelo, Venice, Italy

Flow cytometric analysis is often integral to the swift and accurate diagnosis of leukemias and lymphomas of the blood, bone marrow, and lymph nodes. However, in the fast-moving and expanding field of clinical hematology, it can be challenging to remain up to speed with the latest biological research and technological innovations. *Flow Cytometry of Hematological Malignancies* has been designed to provide all those working in hematological oncology with a practical, cutting-edge handbook, featuring clear and fully illustrated guidance on all aspects of cytometry's role in diagnosis and analysis. This essential second edition includes:



- Explorations of more than 70 antigens
- Full-color illustrations throughout
- New descriptions of recently discovered markers
- WHO classifications of hematological neoplastic diseases
- Helpful tips for result interpretation and analysis

Featuring all this and more, *Flow Cytometry of Hematological Malignancies, Second Edition*, is an invaluable resource for both trainee and experienced hematologists, hematopathologists, oncologists, and pathologists, as well as medical students and diagnostic lab technicians.

APRIL 2021 480PP  
978-1-119-61125-7 CL \$200.00 (Japan)  
LABORATORY HEMATOLOGY

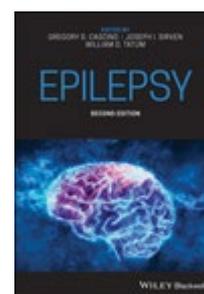
## Epilepsy

2nd Edition

EDITOR GREGORY D. CASCINO, EDITOR JOSEPH I. SIRVEN &  
EDITOR WILLIAM TATUM

Mayo Clinic; Mayo Clinic

Designed to provide a comprehensive but accessible introduction to epilepsy and seizure disorders, *Epilepsy*, 2nd edition provides state-of-the-art information in a concise format useful to a wide audience, from neurology residents to epilepsy fellows and practitioners. This illustrated guide to the assessment, diagnosis, and treatment of epilepsy is a valuable resource enabling clinicians to stay on top of the latest recommendations for best practice

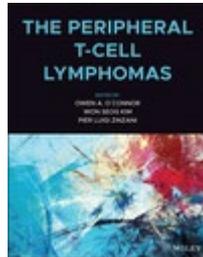


APRIL 2021 326PP  
978-1-119-43182-4 CL \$215.00 (Japan)  
EPILEPSY

## The Peripheral T-Cell Lymphomas

OWEN A. O'CONNOR, WON SEOG KIM & PIER L. ZINZANI

APRIL 2021 304PP  
978-1-119-67131-2 CL \$200.00 (Japan)  
Medical Oncology



## TNM Atlas

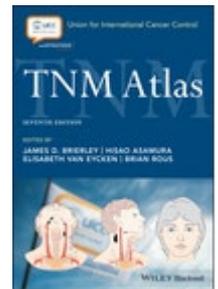
7th Edition

CHRISTIAN WITTEKIND, H. ASAMURA & LESLIE H. SOBIN

Institut für Pathologie der Universität, Leipzig, Germany;  
Armed Forces Institute of Pathology, Washington, DC

### A fully illustrated guide to the current TNM classification (8<sup>th</sup> Edition) and staging system

The Union for International Cancer Control's (UICC) TNM classification system is the most widely used cancer classification and staging system in the world. It is used to describe the anatomical extent of disease and is, therefore, essential to patient care, research and cancer control.



This seventh edition of the *TNM Atlas* provides health-care professionals with a detailed pictorial guide to the system, demonstrating its practical application via clear, direct text and an array of full-color medical illustrations. The atlas features:

- Specially produced content, created to reflect the most recent iteration of the TNM classification of malignant tumours, the 8<sup>th</sup> Edition
- More than 300 full-color medical illustrations covering all anatomical sites of cancer involvement
- Quick-reference material that is ideal for use in clinical and educational settings

The revised seventh edition of the *TNM Atlas* is a valuable resource for all medical, surgical, and radiation oncologists, anatomical and surgical pathologists, cancer registrars, oncology nurses, physician extenders, international cancer care centers and NGOs dedicated to cancer control.

SERIES: UICC  
APRIL 2021 408PP  
978-1-119-26384-5 PB \$100.00 (Japan)  
MEDICAL ONCOLOGY

## Manual for Eye Examination and Diagnosis

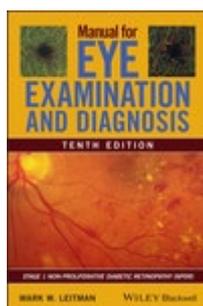
10th Edition

MARK LEITMAN

Department of Ophthalmology, University Surgicenter, East Brunswick, New Jersey

Now in its tenth edition, *Manual for Eye Examination and Diagnosis* is the leading introductory clinical textbook in the field, providing concise and practical coverage of anatomy, instrumentation, differential diagnosis and treatment of ophthalmic diseases and disorders. This

accessible resource offers clear explanations of current diagnostic techniques, equipment and best practice; hundreds of full-color clinical photographs and diagrams; and step-by-step guidance on a range of key procedures. Author Mark Leitman, a practicing Ophthalmology specialist with nearly five decades' experience, provides the foundational knowledge required to excel on an ophthalmology rotation. This is a must-have companion for medical students and junior doctors, trainee ophthalmologists and optometrists, optometry nurses, and ophthalmic technicians.



APRIL 2021 208PP  
978-1-119-62858-3 PB \$70.00 (Japan)  
OPHTHALMOLOGY

## Paediatrics Lecture Notes

10th Edition

JONATHAN C. DARLING

St James' University Hospital, Leeds, UK

*Paediatrics Lecture Notes* covers the core aspects of caring for children in clinical practice, offering concise yet detailed information on examination, emergency care, nutrition, immunisation, infant and adolescent health, and more.

Designed for medical students and junior doctors alike, this compact and easy-to-use textbook guides readers through each essential aspect of paediatric care, from normal and abnormal childhood development, to cardiology, gastroenterology and metabolic disorders. Throughout the text, key points, practice questions, treatment guides, learning logs and self-assessment tests help prepare readers for paediatric rotations and clinical examinations.

Now in its tenth edition, this classic textbook features new and updated information that reflects changes in practice and recent advances in child and adolescent health.

*Paediatrics Lecture Notes, Tenth Edition* is a must-have guide for medical students and junior doctors in paediatric placements and preparing for clinical examinations.

SERIES: LECTURE NOTES

APRIL 2021 320PP  
978-1-119-55287-1 PB \$45.99 (Japan)  
PEDIATRICS

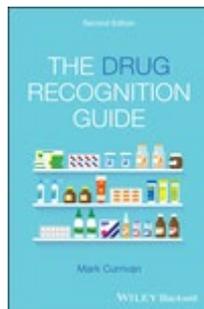


## The Drug Recognition Guide

2nd Edition

MARK CURRIVAN

*The Drug Recognition Guide* introduces an innovative method for recognising and categorising medications, enabling readers to easily identify the type and use of a generic drug by visually deconstructing its name. Through its creative use of colour-coded drug prefixes and suffixes, this pocket-sized guide makes generic drug names distinctive, logical, and easy to pronounce and remember. More than 700 drugs from over 200 different drug categories are catalogued and colour-highlighted—helping you understand what underlies a generic drug name.



Organised by class and use, the book's ten chapters cover a comprehensive range of drugs, including chemotherapy and immunosuppressants, drugs that affect the cardiovascular and respiratory systems, drugs used to manage pain, treat infectious diseases, and many others. Each entry briefly summarises a particular class of drugs, describes the intended use of drugs within the class, and breaks down the "name stems" of individual drugs to reveal useful information and illustrate connections between chemically and therapeutically related medicines.

*The Drug Recognition Guide* is essential reading for nursing and medical students, pharmacy students and technicians, as well as nurse practitioners and trainee and junior doctors.

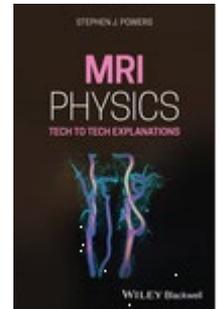
APRIL 2021 160PP  
978-1-119-68980-5 PB \$32.50 (Japan)  
Pharmacology & Pharmaceutical Medicine

## MRI Physics

Tech to Tech Explanations

STEPHEN J. POWERS

Technologists must have a solid understanding of the physics behind Magnetic Resonance Imaging (MRI), including safety, the hows and whys of the quantum physics of the MR phenomenon, and how to competently operate MRI scanners. Generating the highest quality images of the human body involves thorough knowledge of scanner hardware, pulse sequences, image contrast, geometric parameters, and tissue suppression techniques.



*MRI Physics: Tech to Tech Explanations* is designed to help student MRI technologists and radiotherapists preparing for Advanced MRI certification examinations to better understand difficult concepts and topics in a quick and easy manner.

Written by a highly experienced technologist, this useful guide provides clear and reader-friendly coverage of what every MR Technologist needs to know. Topics include safety considerations associated with the magnetic field and RF, pulse sequences, artifacts, MRI math, the much-feared gradients, and I.V. contrast.

- Provides basic guidance on safety considerations, protocols options, critical thinking, and image contrast optimization
- Simplifies the challenging topic of MRI physics using straightforward language and clear explanations
- Covers content for American Registry of Radiologic Technologists (ARRT) and Continuing Qualifications Requirements (CQR) exams
- Features numerous illustrations and photographs of various MRI concepts, pulse sequence design, artifacts, and the application of concepts in clinical settings

*MRI Physics: Tech to Tech Explanations* is a must-have resource for the experienced and training MRI technologist, medical students, and radiology residency rotations.

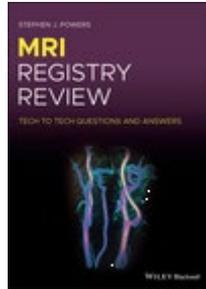
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MRI

## **MRI Registry Review**

Tech to Tech Questions and Answers

STEPHEN J. POWERS

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MRI



## **Surgical Procedures at a Glance**

Core Procedures in Plastic Surgery

IAIN S. WHITAKER

SERIES: AT A GLANCE  
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Plastic & Reconstructive Surgery

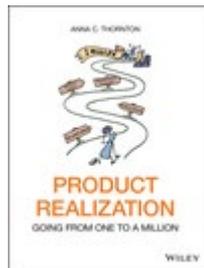
## Product Realization

### Going from One to a Million

ANNA C. THORNTON

Analytics Operations Engineering, MA

Most of the literature on product realization is scattered in blogs, individual chapters of books, and internal company documents. Until now, there has been no single text that covers the whole launch process from end-to-end. The challenge of product realization is the interactions between the various activities and deliverables. Product Realization is based on first-hand experience with many companies comprising different sizes, technologies, and product development timelines. This book brings together fundamental theories and product development tools with the reality of what it takes to work in industry. Includes examples and stories from industry to illustrate and bring the material alive.



APRIL 2021 496PP  
978-1-119-64953-3 CL \$85.00 (Japan)  
Mechanical Engineering - Design

## Sustainable Aviation Technology and Operations

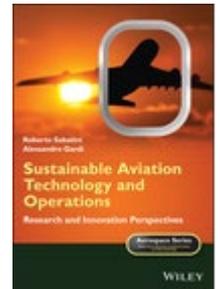
### Research and Innovation Perspectives

ROBERTO SABATINI

### Sustainable Aviation Engineering and Operations

Roberto Sabatini, RMIT University, Australia

***Comprehensively covers recent technological and operational developments to enhance the environmental sustainability of aviation***



*Sustainable Aviation Engineering and Operations* provides an updated outlook of the main research and development initiatives currently ongoing in the aeronautics and air transport domain, with emphasis on the overall environmental objectives and current achievements.

The book discusses some of the most promising advances in sustainable aircraft, airport and air traffic management systems design and operations including: aerodynamics, propulsion, structures, materials, biofuels, avionics, airframe systems, autonomous systems, airside and landside, air traffic flow management and dynamic airspace management. Representative air transport business models are also covered, starting from operational cost breakdown analysis and including key drivers associated with commercial flight. The physical processes associated with production and environmental impacts of various aircraft emissions, including air pollutants, noise and contrails, are presented to support the development of computational models for aircraft design, mission planning and trajectory optimisation.

A set of relevant case studies concludes and complements the book, addressing aircraft design, systems design and mission optimisation for a more efficient and environmentally sustainable air transport. The book is essential reading for students, researchers and practitioners in sustainable aviation engineering and operations.

SERIES: AEROSPACE SERIES

APRIL 2021 550PP  
978-1-118-93258-2 CL \$115.00 (Japan)  
Aeronautic & Aerospace Engineering

## Underwater Inspection and Repair for Offshore Structures

JOHN V. SHARP & GERHARD ERSDAL

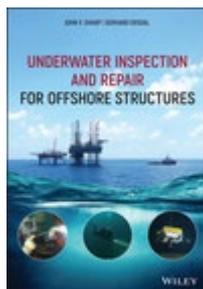
**Benefit from a much-needed, up-to-date handbook on underwater inspection and repair processes and technologies**

*Underwater Inspection and Repair for Offshore Structures* fills a gap in the literature to provide an overview of the inspection and repair processes for both steel and concrete offshore structures. Authors and noted experts on the topic John Sharp and Gerhard Esdal guide readers through the reasons why inspection and repair are performed and how both are linked to the management of structural integrity, statutory requirements and various types of damage.

The book addresses critical topics, including the execution and planning of inspection and repair and the tools and methods used and their deployment underwater. The authors put particular focus on steel and concrete offshore oil and gas installations, but the content is also applicable to the substructures of offshore wind turbines. *Underwater Inspection and Repair for Offshore Structures* is complementary to the authors' book *Ageing and Life Extension of Offshore Structures*, also from Wiley.

Written for engineers, designers and safety auditors working with offshore structures. *Underwater Inspection and Repair for Offshore Structures* is a comprehensive resource for understanding how to effectively inspect and repair these vulnerable structures.

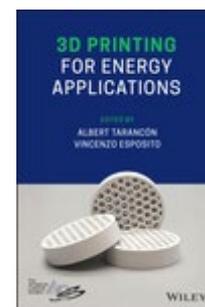
APRIL 2021 364PP  
978-1-119-63379-2 CL \$135.00 (Japan)  
Mechanical Engineering Special Topics



## 3D Printing for Energy Applications

ALBERT TARANCÓN & VINCENZO ESPOSITO

During the last three decades of intensive research on 3D printing, the focus of the development has been put on structural simple parts rather than on complex objects based on multiple functional materials. However, in the last years, the use of 3D printing for fabricating complex devices has become an emerging and promising topic, especially in the energy sector.



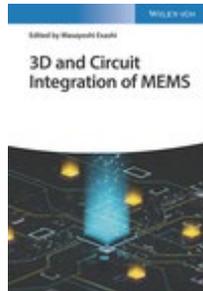
This book covers aspects related to additive manufacturing of functional materials with applicability in the energy sector. The book comprehensively reviews both the technology itself (printable materials and 3D printing strategies) and its specific use in energy devices or systems. Split into three sections the book cover the 3D printing of functional materials; 3D printing of energy devices; and printing challenges for production of complex objects.

APRIL 2021 384PP  
978-1-119-56075-3 CL \$185.00 (Japan)  
Ceramics

## 3D and Circuit Integration of MEMS

MASAYOSHI ESASHI

This book introduces technologies for microsystem packaging and heterogeneous integration comprehensively and systematically. It focuses on the silicon MEMS which have been used in large volume and the technologies concerning system integration. The topics include bulk micromachining, surface micromachining, CMOS-MEMS, wafer Interconnection, Wafer bonding and Sealing.



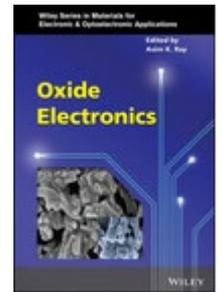
APRIL 2021 544PP  
978-3-527-34647-9 CL \$445.00 (Japan)  
Electronic Materials

## Oxide Electronics

ASIM RAY

**Multiple disciplines converge in this insightful exploration of complex metal oxides and their functions and properties**

*Oxide Electronics* delivers a broad and comprehensive exploration of complex metal oxides designed to meet the multidisciplinary needs of electrical and electronic engineers, physicists, and material scientists. The distinguished author eschews complex mathematics whenever possible and focuses on the physical and functional properties of metal oxides in each chapter.



Each of the sixteen chapters featured within the book begins with an abstract and an introduction to the topic, clear explanations are presented with graphical illustrations and relevant equations throughout the book. Numerous supporting references are included, and each chapter is self-contained, making them perfect for use both as a reference and as study material.

Readers will learn how and why the field of oxide electronics is a key area of research and exploitation in materials science, electrical engineering, and semiconductor physics. The book encompasses every application area where the functional and electronic properties of various genres of oxides are exploited.

Perfect for researchers in semiconductor technology or working in materials science, electrical engineering, and physics, *Oxide Electronics* will also earn a place in the libraries of private industry researchers like device engineers working on electronic applications of oxide electronics. Engineers working on photovoltaics, sensors, or consumer electronics will also benefit from this book.

SERIES: WILEY SERIES IN MATERIALS FOR ELECTRONIC & OPTOELECTRONIC APPLICATIONS

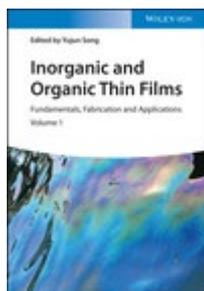
APRIL 2021 608PP  
978-1-119-52947-7 CL \$165.00 (Japan)  
Electronic Materials

## Inorganic and Organic Thin Films

Fundamentals, Fabrication, and Applications

EDITOR YUJUN SONG

This summary will provide prospective insight for the blooming of novel advanced thin films to open a new and smart era in their applications in information technology, new energy, biomedical engineering, aerospace and oceanographic engineering based on their unique electronic, electric, magnetic, optical, acoustic, transporting and thermal properties, or the coupling of these properties. This book will not only provide a fundamental tool for the current researchers and commercial users in the design and fabrication of thin films to find the under physics and chemistry theory and the handbook for their future fantastic applications, but also a useful and powerful reference for the new comer to fund their knowledge and enlighten their own strategies in the development of new design theory, fabrication methods and application of advanced thin films.



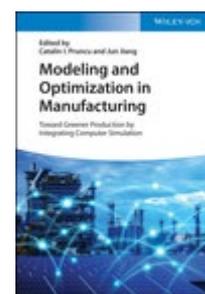
APRIL 2021 752PP  
978-3-527-34497-0 CL \$445.00 (Japan)  
Thin Films, Surfaces & Interfaces

## Modeling and Optimization in Manufacturing

Toward Greener Production by Integrating Computer Simulation

EDITOR CATALIN I. PRUNCU & EDITOR JUN JIANG

The book provides state-of-the-art knowledge on multiscale modeling and optimization in manufacturing, covering processes such as forming, machining, casting, joining, coating, and additive manufacturing.



APRIL 2021 252PP  
978-3-527-34694-3 CL \$190.00 (Japan)  
Materials Processing

## Biobased Composites

Characterization, Properties, and Applications

ANISH KHAN, SANJAY M. RANGAPPA, SUCHART SIENGCHIN & ABDULLAH M. ASIRI

Explore the world of biocomposites with this one-stop resource edited by four international leaders in the field

*Biobased Composites: Processing, Characterization, Properties, and Applications* delivers a comprehensive treatment of all known characterization methods, properties, and industry applications of biobased composites materials. This unique, one-stop resource covers all major developments in the field from the last decade of research into this environmentally beneficial area.



The internationally recognized editors have selected resources that represent advances in the mechanical, thermal, tribological, and water sorption properties of biobased composites, and cover new areas of research in physico-chemical analysis, flame retardancy, failure mechanisms, lifecycle assessment, and modeling of biobased composites.

The low weight, low cost, excellent thermal recyclability, and biodegradability of biobased composites make them ideal candidates to replace engineered plastic products derived from fossil fuel. This book provides its readers with the knowledge they'll require to understand a new class of materials increasingly being used in the automotive and packaging industries, aerospace, the military, and construction.

Perfect for materials scientists in private industry, government laboratories, or engaged in academic research, *Biobased Composites* will also earn a place in the libraries of industrial and manufacturing engineers who seek a better understanding of the beneficial industrial applications of biocomposites in industries ranging from automobiles to packaging.

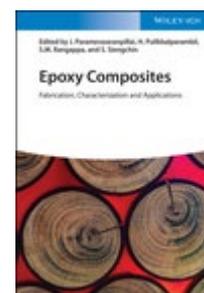
APRIL 2021 UnknownPP  
978-1-119-64179-7 CL \$150.00 (Japan)  
Composites

## Epoxy Composites

Preparation, Characterization and Applications

EDITOR JYOTISHKUMAR PARAMESWARANPILLAI, EDITOR HERIKRISHNAN PULIKKALPARAMBIL, EDITOR SANJAY M. RANGAPPA & EDITOR SUCHART SIENGCHIN

The book summarizes the recent developments in the area of epoxy composites, emphasizing their preparation, characterization and applications. It provides a comprehensive understanding of the correlation of rheology, cure reaction, morphology, and thermo-mechanical properties with filler dispersion and is therefore highly relevant to engineers, technologist and academic and industrial researchers.



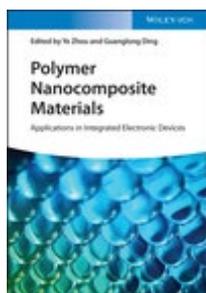
APRIL 2021 448PP  
978-3-527-34678-3 CL \$171.77 (Japan)  
Composites

## Polymer Composites

From Signal Sensing to Information Storage

YE ZHOU & GUANGLONG DING

This book presents an overview of polymer nanocomposites in terms of zero, one, and two dimensional nanomaterials. Their environmental compatibility and typical applications in energy, information and biotechnology devices such as sensors, solar cells, memories, artificial synapse and integrated device are discussed respectively. The book also addresses materials and device challenges, possible strategies and the future directions in the end to promote the commercial translation of these polymer nanocomposites based electronic devices.



APRIL 2021 368PP  
978-3-527-34744-5 CL \$153.57 (Japan)  
Composites

## Biological Soft Matter

CORINNE NARDIN & HELMUT SCHLAAD

This book is a must-have for everyone who is working in the field of biological soft matter. All the important substance classes like proteins, nucleic acids, lipids and polysaccharides and their role in forming superstructures are presented in this great reference.



APRIL 2021 320PP  
978-3-527-34348-5 CL \$190.00 (Japan)  
Soft Matter

## Wide Bandgap Semiconductors for Power Electronics

Materials, Devices, Applications

EDITOR PETER WELLMANN, EDITOR NOBORU OHTANI & EDITOR ROLAND RUPP

The book gives a comprehensive overview the wide bandgap materials silicon carbide, gallium nitride, diamond and gallium(III) oxide, covering in detail the growth of these materials, their characterization and their use in a variety of power electronics devices such as transistors and diodes, but also in the areas of quantum information and hybrid electric vehicles. The academic perspective on the covered aspects is complemented by an industrial perspective, making the book uniquely useful both for materials scientists, physicists and engineers at universities and for those in corporate research and development.

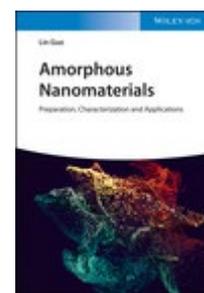
APRIL 2021 715PP  
978-3-527-34671-4 CL \$341.42 (Japan)  
Materials for Energy Systems

## Amorphous Nanomaterials

Preparation, Characterization and Applications

LIN GUO

This book covers the fundamental concept, synthesis, characterization, properties, and applications of nano-scaled amorphous materials. It starts with the introduction of amorphous materials, then gives a global view of the history, structure and growth mechanism of amorphous nanomaterials. Subsequently, some powerful techniques to characterize amorphous materials, such as X-ray absorption fine structure spectroscopy, spherical aberration electron microscope, in-situ-TEM, EELS, and some other defect characterization technologies are included. Furthermore, the emerging innovative methods to fabricate well-defined, regular-shaped amorphous nanomaterials, including 0D, 1D, 2D and 3D amorphous nanomaterials are systematically introduced. The fascinating properties and applications related to amorphous nanomaterials including the applications in electrocatalysis, batteries, supercapacitors, photocatalysis, mechanics, etc., are presented. It will greatly help the researchers to find professional answers related to amorphous materials.



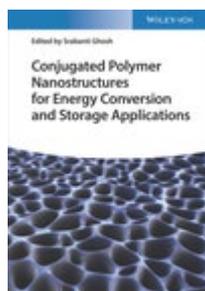
APRIL 2021 424PP  
978-3-527-34747-6 CL \$166.75 (Japan)  
Nanomaterials

## Conjugated Polymer Nanostructures for Energy Conversion and Storage Applications

EDITOR SRABANTI GHOSH

The book provides a timely overview of the versatile materials class of conjugated polymers for sustainable energy generation and storage applications.

APRIL 2021 504PP  
978-3-527-34557-1 CL \$189.73 (Japan)  
Nanomaterials



## ナーシング

## Discipline of Nursing

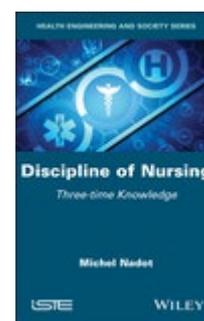
Three-time Knowledge

MICHEL NADOT

Nursing students' access to higher education does not mark the beginning of basic scientific research into this discipline, and it is now a struggle for this fact to remain visible.

Prejudices, misrepresentations and myths mislead nurses about the origins of nursing knowledge. Discipline of Nursing allows us to compare significant nursing figures: Florence Nightingale (Great Britain) and her equally valuable counterpart Valerie de Gasparin-Boissier (Switzerland). The two distinct training models proposed by these illustrious women have retained their relevance into the 21st Century since as early as 1859. The discipline of nursing seems to be arranged in almost geological layers of knowledge that we can distinguish by studying the traditions of nursing language. This book aims to provide a better understanding of the nature of services provided by nurses worldwide.

APRIL 2021 304PP  
978-1-78630-429-2 CL \$165.00 (Japan)  
Introductions to Nursing



## The Nursing Associate at a Glance

IAN PEATE, GIBRALTAR

School of Nursing and Midwifery

### Everything you need to know about The Nursing Associate ... at a Glance!

*The Nursing Associate at a Glance* is a comprehensive guide developed to support trainee nursing associates with revision and practice-based learning, helping readers to uphold and maintain their Code of Conduct, promote healthy behaviours, treat ill health, and provide and monitor care effectively. Aligned with the six Nursing and Midwifery Council standards of proficiency for nursing associates, the book provides indispensable information about a range of areas of care including:

- How to contribute to integrated care, including how to be resilient and how to understand the various roles of health and social care teams
- How to improve the safety and quality of care, including an examination of health and safety legislation and the use of risk assessment tools
- How to effectively work in teams, including positive interaction with other members of the care team and how to manage data
- How to provide and monitor care, including discussions of deteriorating, anxious and confused patients

Perfect for trainee nursing associates seeking to successfully graduate from the nursing associate programme, *The Nursing Associate at a Glance* provides readers with the skills and knowledge required to be competent, confident and compassionate nursing associates.

SERIES: AT A GLANCE (NURSING AND HEALTHCARE)

APRIL 2021 244PP  
978-1-119-72430-8 PB \$32.50 (Japan)  
Introductions to Nursing

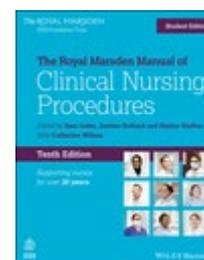
## The Royal Marsden Manual of Clinical Nursing Procedures Student Edition

10th Edition

SARA LISTER, JUSTINE HOFLAND, HAYLEY GRAFTON & CATHERINE WILSON

The Royal Marsden NHS Foundation Trust; The Royal Marsden NHS Foundation Trust; Royal Marsden NHS Foundation Trust; Royal Marsden NHS Foundation Trust

The student edition of *The Royal Marsden Manual of Clinical Nursing Procedures* has been the definitive, market-leading textbook of clinical nursing skills for fifteen years. This internationally best-selling title sets the gold standard for nursing care, providing the procedures, rationale, and guidance required by pre-registration students to deliver clinically effective, patient-focused care with expertise and confidence.



With over two-hundred detailed procedures which reflect the skills required to meet *The Standards of Proficiency for Registered Nurses* (NMC 2019), this comprehensive manual presents the evidence and underlying theory alongside full-colour illustrations and a range of learning activities designed to support student nurses in clinical practice. Loved and trusted by millions, *The Royal Marsden Manual of Clinical Nursing Procedures, Student Edition* continues to be a truly indispensable textbook for students, and includes coverage of patient assessment and discharge planning, communication, infection prevention and control, perioperative care, wound management, nutrition, diagnostic testing, medicines management, and much more.

Many of the features in the book are relevant to trainee nursing associates, especially when used in conjunction with supervision from academic and clinical teachers. A companion website to this title is available at [www.royalmarsdenmanual.com/student10e](http://www.royalmarsdenmanual.com/student10e)

SERIES: ROYAL MARSDEN MANUAL SERIES

APRIL 2021 1092PP  
978-1-119-53296-5 PB \$50.00 (Japan)  
INTRODUCTIONS TO NURSING

## Fundamentals of Children and Young People's Anatomy and Physiology

A Textbook for Nursing and Healthcare Students

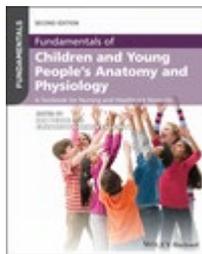
2nd Edition

EDITOR IAN PEATE, GIBRALTAR & EDITOR ELIZABETH GORMLEY-FLEMING

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

*Fundamentals of Children and Young People's Anatomy and Physiology* contains the critical

knowledge required to provide safe and effective care to young people. Emphasising the application of evidence-based theory to practice, this comprehensive yet accessible textbook helps nursing and healthcare students understand how children's anatomical and physiological systems influence disease processes and treatment options differently than in adults. Highly visual, succinct yet comprehensive, this textbook presents an overview of the structure and function of each body system, supported by clinical applications demonstrating how the concepts relate to nursing in practice.



Fully revised to reflect the Future Nurse Curriculum Standards, this second edition contains a new chapter on physical growth and development, discussion of social, political, and environmental impacts to children's health and wellbeing, updated problems and activates, and more. Each chapter includes a range of effective pedagogical tools, such as learning objectives, clinical considerations, body maps, and self-assessment questions. *Fundamentals of Children and Young People's Anatomy and Physiology* is essential reading for nursing and healthcare students, and a useful reference for nurses, nursing associates, healthcare assistants, assistant practitioners, and other professionals working in the field.

SERIES: FUNDAMENTALS

APRIL 2021 340PP  
978-1-119-61922-2 PB \$50.00 (Japan)  
NURSING CHILDREN & YOUNG PEOPLE

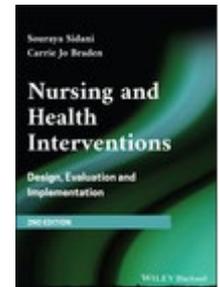
## Nursing and Health Interventions

Design, Evaluation and Implementation

2nd Edition

SOURAYA SIDANI & CARRIE JO BRADEN

Ryerson University, Toronto, Ontario, Canada ; The University of Texas Health Science Center at San Antonio, San Antonio, Texas, USA



APRIL 2021 320PP  
978-1-119-61012-0 PB \$69.50 (Japan)  
NURSING RESEARCH

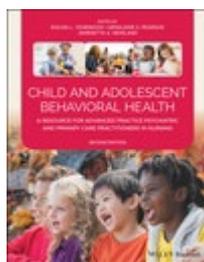
## Child and Adolescent Behavioral Health

A Resource for Advanced Practice Psychiatric and Primary Care Practitioners in Nursing, 2nd Edition

EDILMA L. YEARWOOD, GERALDINE S. PEARSON & JAMESETTA A. NEWLAND

Georgetown University, Washington D.C.; University of Connecticut, Farmington; New York University, New York, NY

Research has indicated that a range of adult psychiatric disorders and mental health problems originate at an early age, yet the psychiatric symptoms of an increasing number of children and adolescents are going unrecognized and untreated--there are simply not enough child psychiatric providers to meet this steadily rising demand. It is vital that advanced practice registered nurses (APRNs) in psychiatry and primary care take active roles in assessing behavioral health presentations and work collaboratively with families and other healthcare professionals to ensure that all children and adolescents receive appropriate treatment.



*Child and Adolescent Behavioral Health* helps APRNs address the mental health needs of this vulnerable population, providing practical guidance on assessment, intervention and treatment strategies; indications for consultation, collaboration, and referral; and more. Now in its second edition, this comprehensive and timely resource has been fully updated to include DSM-5 diagnostic criteria for common behavioral health issues of infants to adolescents. New and expanded chapters cover bullying and victimization, child sexual development, adolescent sexual identity, managing the needs of LGBTQ youth, and adverse childhood events. Designed to specifically address the issues faced by APRNs, *Child and Adolescent Behavioral Health* is essential reading for nurse practitioners and clinical nurse specialists, particularly those working in family, pediatric, community health, psychiatric, and mental health settings.

APRIL 2021 UnknownPP  
978-1-119-48757-9 PB \$99.99 (Japan)  
PRIMARY CARE NURSING & PRACTICE NURSING

## Examination of the Newborn

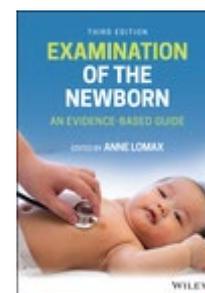
An Evidence-Based Guide, 3rd Edition

ANNE LOMAX

University of Central Lancashire

*Examination of the Newborn* is essential reading for students and practitioners involved in neonatal examinations. Now in its third edition, this practical evidence-based guide reflects the most current Public Health England (PHE) Newborn and Infant Physical Examination (NIPE) Standards

to help readers deliver high quality, family-centered care within current national guidelines. Each chapter is firmly placed within the context of the current PHE standards to help ensure good practice in both hospital and community settings.



This fully-revised edition incorporates current educational and healthcare guidelines relevant to the neonatal examination, including up-to-date information on the new Nursing and Midwifery Council (NMC) Standards for Education. New and expanded topics include history taking and the examination of the newborn, midwifery professional issues, the use of pulse oximetry, and the importance of observing maternal and infant attachment during examination.

*Examination of the Newborn* is an indispensable source of authoritative knowledge for nursing students, midwives, neonatal nurses and practitioners, pediatricians, physiotherapists, and general practitioners.

APRIL 2021 300PP  
978-1-119-64559-7 PB \$39.95 (Japan)  
MIDWIFERY

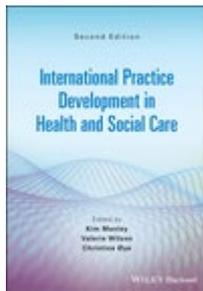
## International Practice Development in Health and Social Care

2nd Edition

EDITOR KIM MANLEY, EDITOR VALERIE J. WILSON & EDITOR CHRISTINE OYE

Royal College of Nursing Institute

The second edition of *International Practice Development in Health and Social Care* remains the definitive resource for all those responsible for facilitating innovation and change in health and social care practice at every level. Fully revised and updated throughout, this new edition preserves its focus on developing person-centred, safe and effective evidence-based care that reflects the most recent health service modernisation agendas, clinical governance strategies, and quality improvement initiatives worldwide.



In recent years, practice development (PD) supported by the International Practice Development Collaborative and the *International Practice Development Journal* has become increasingly interdisciplinary and globally focused. Accordingly, the second edition places greater emphasis on integrated health and social care, as well as on person-centred and community-focused approaches. New and updated chapters explore future challenges for practice development, readiness for transforming maternity services, new strategies for facilitating knowledge translation, education models for using the workplace as the main resource for learning, developing, and improving, and more.

*International Practice Development in Health and Social Care* is essential reading for multi-professional healthcare practitioners including nurses, midwives, allied healthcare and medical practitioners, facilitators of learning and improvement, clinical educators, PD coordinators, health and social care leaders, managers and commissioners, and students and trainees from all the healthcare professions.

APRIL 2021 400PP  
978-1-119-69835-7 PB \$65.00 (Japan)  
NURSING EDUCATION & PROFESSIONAL DEVELOPMENT

## The Advanced Practice Registered Nurse as a Prescriber

2nd Edition

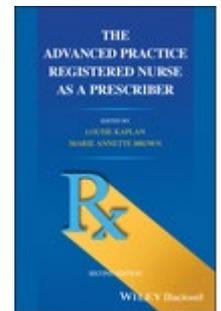
EDITOR LOUISE KAPLAN & EDITOR MARIE ANNETTE BROWN

St. Martin's University, Lacey, WA; University of Washington, Seattle, WA

### READERSHIP:

Students who are adopting the role of APRN prescriber; practising APRNs who confront challenges as they transition to the full scope of the prescriber role.

Pharmacotherapeutics students



APRIL 2021 304PP  
978-1-119-68557-9 PB \$60.00 (Japan)  
NURSING SPECIAL TOPICS

## 物理学

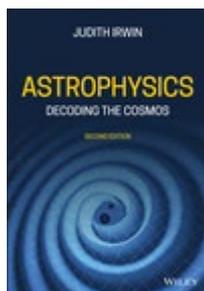
**Astrophysics**

Decoding the Cosmos, 2nd Edition

JUDITH ANN IRWIN, Queen's University, Canada

**The new edition of the popular textbook for undergraduate astronomers, covers the "how" of astrophysics**

*Astrophysics: Decoding the Cosmos, Second Edition*, describes how information about the physical nature of stars and other celestial bodies is obtained and analyzed to gain a better understanding of the universe. This acclaimed introductory textbook makes the complex principles and theories underlying astrophysics accessible to students with basic knowledge of first-year calculus-based physics and introductory astronomy. Reader-friendly chapters explore physical processes using relevant examples and clear explanations of how radiation and particles are analyzed. Such analysis leads to the density, temperature, mass, and energy of astronomical objects.



In the time since the first publication of *Astrophysics*, the power of telescopes has increased considerably. Reflecting advancements in the field, this new edition includes carefully reviewed and updated material throughout, including recent GAIA satellite results, new information from subatomic particles, neutrinos, and cosmic rays, and brand-new case studies on Gamma-ray bursters, soft repeaters, fast radio bursts, exoplanets, and signals from exoplanetary atmospheres. Retaining its focus on electromagnetic radiation, the second edition now covers more of the ways that information about the universe is acquired, such as particles, gravitational radiation, and meteoritics.

*Astrophysics: Decoding the Cosmos, Second Edition*, is the ideal intermediate textbook for second- and third- year undergraduate students in Astrophysics courses, as well as a useful resource for advanced undergraduate and graduate students looking to refresh their knowledge in basic concepts.

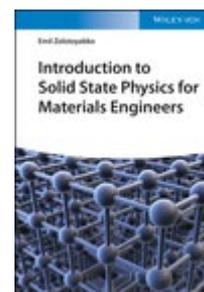
APRIL 2021 650PP  
978-1-119-62368-7 CL \$120.00 (Japan)  
ASTRONOMY & ASTROPHYSICS

**Introduction to Solid State Physics for Materials Engineers**

EMIL ZOLOTROYABKO

Technion-Israel Institute of Technology, Haifa, Israel

The book introduces students of materials engineering, materials science and related engineering disciplines to solid state physics. The accessible text is detailed enough to foster real understanding without being too theoretical, and makes the connection to current technology.



APRIL 2021 288PP  
978-3-527-34884-8 PB \$60.65 (Japan)  
Solid State Physics

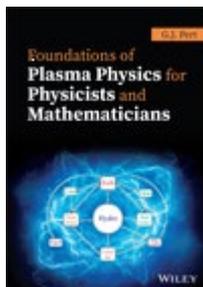
## Foundations of Plasma Physics for Physicists and Mathematicians

G. J. PERT

**A comprehensive textbook on the foundational principles of plasmas, including material on advanced topics and related disciplines such as optics, fluid dynamics, and astrophysics**

*Foundations of Plasma Physics for Physicists and*

*Mathematicians* covers the basic physics underlying plasmas and describes the methodology and techniques used in both plasma research and other disciplines such as optics and fluid mechanics. Designed to help readers develop physical understanding and mathematical competence in the subject, this rigorous textbook discusses the underlying theoretical foundations of plasma physics as well as a range of specific problems, focused on those principally associated with fusion.



Reflective of the development of plasma physics, the text first introduces readers to the collective and collisional behaviors of plasma, the single particle model, wave propagation, the kinetic effects of gases and plasma, and other foundational concepts and principles. Subsequent chapters cover topics including the hydrodynamic limit of plasma, ideal magneto-hydrodynamics, waves in MHD plasmas, magnetically confined plasma, and waves in magnetized hot and cold plasma.

*Foundations of Plasma Physics for Physicists and Mathematicians* is the ideal textbook for advanced undergraduate and graduate students in plasma physics, and a valuable compendium for physicists working in plasma physics and fluid mechanics.

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Plasma Physics

## Western Philosophy

An Anthology, 3rd Edition

EDITOR JOHN G. COTTINGHAM

University of Reading

SERIES: BLACKWELL PHILOSOPHY ANTHOLOGIES

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GENERAL PHILOSOPHY

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Selected Texts with a Method for Beginners

2nd Edition

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Birkbeck College, London; Birkbeck College, London; University of Southampton

**A key introductory philosophy textbook, making use of an innovative, interactive technique for reading philosophical texts**

*Reading Philosophy: Selected Texts with a Method for Beginners, Second Edition*, provides a unique approach to reading philosophy, requiring students to engage with material as they read. It contains carefully selected texts, commentaries on those texts, and questions for the reader to think about as she reads. It serves as starting points for both classroom discussion and independent study. The texts cover a wide range of topics drawn from diverse areas of philosophical investigation, ranging over ethics, metaphysics, epistemology, philosophy of mind, aesthetics, and political philosophy.



This edition has been updated and expanded. New chapters discuss the moral significance of friendship and love, the subjective nature of consciousness and the ways that science might explore conscious experience. And there are new texts and commentary in chapters on doubt, self and moral dilemmas.

This book is an ideal resource for beginning students in philosophy, as well as for anyone wishing to engage with the subject on their own.

SERIES: READING PHILOSOPHY

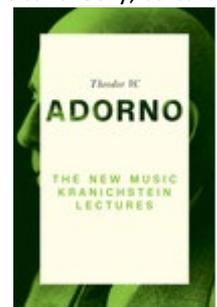
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Introductions to Philosophy

## The New Music

Kranichstein Lectures

T. W. ADORNO, TRANSLATED BY WIELAND HOBAN, EDITOR KLAUS REICHERT & EDITOR MICHAEL MICHAEL

READERSHIP: Students and scholars of critical theory, cultural theory, music and aesthetics; anyone interested in the work of Adorno and the Frankfurt School; a general readership interested in music history and German intellectual and cultural history



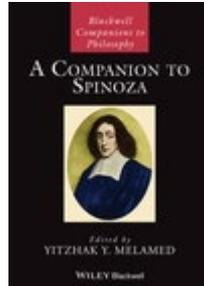
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Critical Theory

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EDITOR YITZHAK Y. MELAMED

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17th & 18th Century Philosophy



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An Introduction

NEIL MANSON

Ole Miss University

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Philosophy of Religion

## 政治学

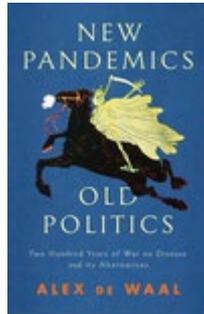
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ALEX DE WAAL

READERSHIP: General readers students of politics and sociology, interested general readers.

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Political Issues & Behavior



and  
and

**Marx in Movement**

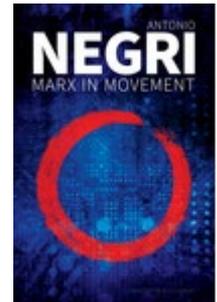
Operaismo in Context

ANTONIO NEGRI & TRANSLATED BY ED EMERY

University of Padua

READERSHIP: Students and scholars of philosophy and political theory; anyone interested in radical politics today.

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978-1-5095-4424-0 PB \$24.95 (Japan)  
Political Philosophy & Theory

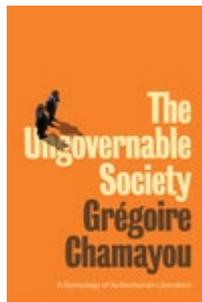
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GRÉGOIRE CHAMAYOU & TRANSLATED BY ANDREW BROWN

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978-1-5095-4201-7 PB \$26.95 (Japan)  
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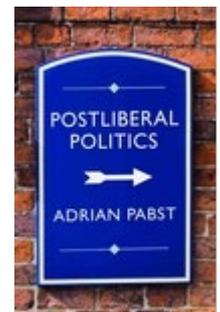
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Manifesto for a Post-Pandemic Politics

ADRIAN PABST

READERSHIP: Students and scholars of political theory; general readers interested in postliberalism, current affairs.

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Political Philosophy & Theory



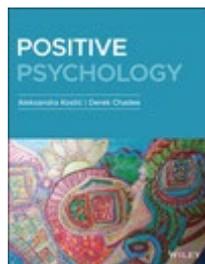
## Positive Psychology

An International Perspective

EDITOR ALEKSANDRA KOSTIC & EDITOR DEREK CHADEE

University of the West Indies, USA

The purpose of the book is to bring together a number of very prominent positive psychology researchers to discuss current themes and research. We are anticipating fourteen (14) papers which will be divided into two sections - theoretical and applied. Among the issues to be presented on positive psychology are: Advances in positive psychology and Interventions, time perspective, empathy-altruism, mindfulness, positive orientation, love, forms of enjoyment, positive cyber psychology, epigenetic and physiological implications of positive psychology, positive creativity. The book will be pitched to senior undergraduates, graduates, academics and time perspective researchers. We expect each contribution to be between 25 -- 30 pages excluding references. We are hopeful that this book will provide satisfactory answers to open, neglected or unresolved questions about this relatively new emerging area in the discipline of social psychology.



APRIL 2021 320PP  
978-1-119-66644-8 PB \$45.00 (Japan)  
Social Psychology

## Forensic Psychology

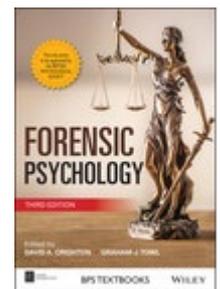
3rd Edition

DAVID A. CRIGHTON & GRAHAM J. TOWL

London Metropolitan University; HM Prison Service

SERIES: BPS TEXTBOOKS IN  
PSYCHOLOGY

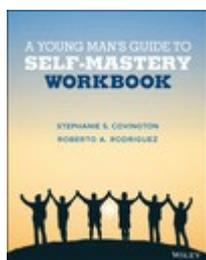
APRIL 2021 650PP  
978-1-119-67354-5 PB \$51.95 (Japan)  
FORENSIC PSYCHOLOGY



## A Young Man's Guide to Self-Mastery, Community Edition, Journal

ROBERTO RODRIGUEZ & STEPHANIE S. COVINGTON

Many boys and young men struggling with substance use disorder and the effects of experiencing troubling events face significant challenges as they attempt recovery and healing. Boys who suffer adverse or troubling life events experience significant impairment in neural development (Sheridan, McLaughlin, 2014). This impairment can lead to trouble in critical thinking, trouble in reconciling emotional events, and antisocial behavior. Adolescent males seem to be less averse to risks and tend to experiment with harsher and harder drugs than their fathers were or did (Somaini, et al., 2011). It is estimated that 68% of the 1.3 million teens struggling with substance use disorder are male (NSDUH, 2014). Statistics indicate that traditional treatment is less than effective in helping young men to achieve sustained abstinence leading to recovery from substance use disorders. A recent study cites relapse rates as high as 60-70% (NIH, 2014). While there are multiple mitigating factors which contribute to these dismal results, the underlying theme remains: the helping and the correctional fields are not adequately addressing the needs of boys and young men during the most daunting and confusing time period of their lives. Presently, there are approximately 70,000 boys and young men serving sentences in correctional facilities for drug-related issues (Ayzer & Doyle, 2015). It is estimated that the vast majority of these boys and young men will not receive individualized and comprehensive treatment for their disorder. In general, boys are socialized to experience a limited version of masculinity. This version of masculinity aspires to control, to power, and to individual self-reliance. It forces a young boy to often live against his core by committing acts that are against his humanity, in an effort to find safety and acceptance. Male socialization often and violently rips the sensitive side of a boy away, leaving a wounded and incomplete being behind. We believe that one way to address the needs of these boys and young men lies in a trauma-specific and gender-responsive treatment program. This program should address the impact of socialization, adverse life experiences and substance use.



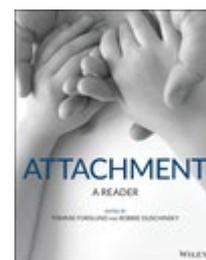
APRIL 2021 704PP  
978-1-119-62775-3 PB \$19.95 (Japan)  
Addictions

## Attachment Theory and Research

A Reade

TOMMIE FORSLUND & ROBBIE DUSCHINSKY

As interest in attachment theory continues to grow, misconceptions of the theory are becoming increasingly common. Important texts on major theoretical and empirical contributions are often too extensive for non-specialist readers or not readily available to clinicians. Designed to address a significant gap in literature, *Attachment Theory and Research: A Reader* presents a carefully curated selection of book chapters and journal articles on the subject--complemented by previously unpublished material by the founder of the theory. This valuable new resource provides practitioners, students, policymakers, and general readers an accessible and up-to-date view of the concepts, development, and diversity of attachment theory. The *Reader* comprises 15 succinct chapters by many of the most influential researchers in the theory, covering the basis of attachment theory and the current state of the field. The book brings together a wide range of works, many of which challenge common assumptions and offer intriguing new insights on attachment theory and research. Topics include psychoanalytic theories of separation anxiety, concepts of anxiety, stress, and homeostasis, the origins of disorganized attachment, cultural differences in caregiving practices, reactive attachment disorder (RAD) and disinhibited social engagement disorder (DSED), the future prospects of attachment theory, and more.



APRIL 2021 440PP  
978-1-119-65788-0 PB \$55.00 (Japan)  
Abnormal Psychology

## Foundations of Couples, Marriage, and Family Counseling

2nd Edition

EDITOR DAVID CAPUZZI, LAKE OSWEGO & EDITOR MARK D. STAUFFER, CORBETT

Walden University; Walden University

**A relevant and practical approach to the world of marriage, couples, and family counseling--updated!**

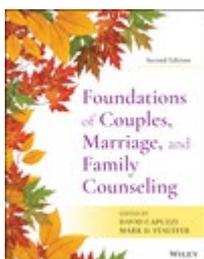
*Foundations of Couples, Marriage, and Family*

*Counseling, Second Edition*, presents the theory, research, and real-life practice that today's student counselors and therapists need to know to work in family therapy settings. Aligned with the Council for Accreditation of Counseling and Related Educational Programs (CACREP) and Commission on Accreditation for Marriage and Family Therapy Education (COAMFTE), this useful text covers both foundational topics and modern issues not included in other texts, such as sexuality, trauma, divorce, domestic violence, addictions, filial play therapy, and using community genograms to position culture and context in family therapy. In addition to the updated content in each chapter, this Second Edition has a newly written chapter on assessment and a brand-new chapter on the topic of climate change and helping families mitigate, adapt, and transition during disruption.

With a unique focus on practical applications, the book discusses the major family therapy theories and provides readers with the skills and techniques they need to help couples and families in any environment. Each chapter contains case studies and anecdotes that help readers think critically about the issues they are likely to deal with as clinicians.

In family and couples counseling, we must grapple with a complex interplay of individual, interpersonal, and environmental factors inherent. *Foundations of Couples, Marriage, and Family Counseling* helps readers sort out the complexity and guide clients toward lasting resolution.

APRIL 2021 UnknownPP  
978-1-119-68608-8 PB \$119.95 (Japan)  
FAMILY THERAPY

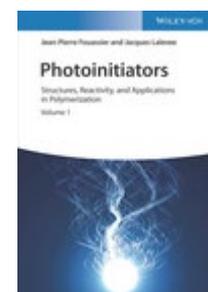


## Photoinitiators of Polymerization

JEAN-PIERRE FOUASSIER & JACQUES LALEVEE

formerly University of Haute Alsace, Mulhouse, France

This is the most comprehensive insight into the emerging field of PIs by providing detailed presentation of PIs and PI systems and their role in different polymerization reactions. Examples of various applications from industry are included, too. An indispensable source.



APRIL 2021 816PP  
978-3-527-34609-7 CL \$390.00 (Japan)  
Polymer processing

## Bio-Based Epoxy Polymers, Blends and Composites

Synthesis, Properties, Characterization and Applications

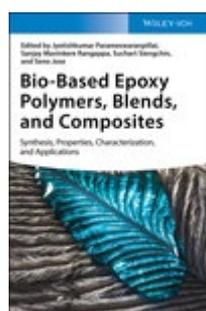
EDITOR JYOTISHKUMAR PARAMESWARANPILLAI, EDITOR SANJAY M. RANGAPPA, EDITOR SUCHART SIENGCHIN & EDITOR SENO JOSE

**State-of-the-art overview on bioepoxy polymers as well as their blends and composites -- covering all aspects from fundamentals to applications!**

Bioepoxy polymers is an emerging area and have attracted more and more attention due to their biodegradability and good thermo-mechanical performance. In recent years, research progress has been made in synthesis, processing, characterization, and applications of bioepoxy blends and composites. Bioepoxy polymers are very promising candidates to replace the traditional thermosetting nonbiodegradable polymers.

*Bio-Based Epoxy Polymers, Blends and Composites* summaries recent research progress on bioepoxy polymers as well as their blends and composites. It covers aspects from synthesis, processing, various characterization techniques to broad spectrum of applications. It provides a correlation of physical properties with macro, micro and nanostructures of the materials. Moreover, research trends, future directions, and opportunities are also discussed.

APRIL 2021 392PP  
978-3-527-34648-6 CL \$205.00 (Japan)  
Polymer Synthesis



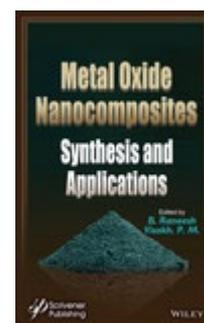
## Metal Oxide Nanocomposites

Synthesis and Applications

B. RANEESH & VISAKH P. M.

*Metal Oxide Nanocomposites: Synthesis and Applications* summarizes many of the recent research accomplishments in the area of metal oxide-based nanocomposites. This book focussing on the following topics: Nanocomposites preparation and characterization of metal oxide nanocomposites; synthesis of core/shell metal oxide nanocomposites; multilayer thin films; sequential assembly of nanocomposite materials; semiconducting polymer metal oxide nanocomposites; graphene-based metal and metal oxide nanocomposites; carbon nanotube--metal--oxide nanocomposites; silicon mixed oxide nanocomposites; gas semiconducting sensors based on metal oxide nanocomposites; metal-organic framework nanocomposite for hydrogen production and nanocomposites application towards photovoltaic and photocatalytic.

APRIL 2021 432PP  
978-1-119-36357-6 CL \$225.00 (Japan)  
Polymer Characterization



## 宗教

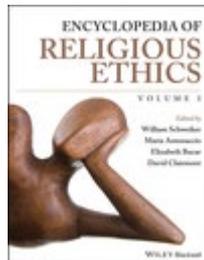
## Encyclopedia of Religious Ethics

EDITOR WILLIAM SCHWEIKER, EDITOR DAVID A. CLAIRMONT,  
EDITOR ELIZABETH BUCAR & ASSOCIATE EDITOR MARIA  
ANTONACCIO

University of Chicago; University of  
Notre Dame, USA

SERIES: WILEY BLACKWELL  
COMPANIONS TO RELIGION

APRIL 2021 950PP  
978-1-118-47198-2 CL \$580.00 (Japan)  
Religious Ethics



## Understanding the Bible as a Scripture in History, Culture, and Religion

JAMES W. WATTS

**A cutting-edge introduction to how the Bible functions as a scripture, and how it came to be that way**

Understanding the Bible as A Scripture in History, Culture, and Religion provides a unique introduction to the Bible. The author, James W. Watts--a noted expert on biblical rhetoric and the ritualization of books--describes how Jews and Christians ritualize scripture by interpreting it, by expressing it in recitations, music, and art, and by venerating the physical scroll and book. Rather than just focusing on questions of how and when the books of the Bible were composed, edited, and canonized as scripture, the author includes these issues within a broader perspective on comparative scriptures in religious studies.

The book highlights the Torah and Gospels, which have been the focus of Jewish and Christian ritualization of scriptures from ancient to modern times, when one-volume printed bibles became common. Watts describes both the use of biblical books in the centuries since they began to function as a scripture, and their earlier origins in ancient Judaism and Christianity. This important book:

- Analyzes the semantic contents of all of the Bible's books as persuasive rhetoric
- Gives equal space to the Bible's ritualization in the iconic and expressive dimensions as to its semantic interpretation
- Fully integrates the cultural history of the Bible in art, music, theatre, and film with its influence on Jewish and Christian rituals and beliefs
- Concludes with the cultural influence of modern bibles and the controversies they have fueled about history, science, race, and gender

Written for students and scholars, Understanding the Bible as A Scripture in History, Culture, and Religion is a groundbreaking work that highlights new research data and organizes the material to focus attention on the Bible's function as a scripture.

APRIL 2021 336PP  
978-1-119-73037-8 PB \$50.00 (Japan)  
Biblical Studies

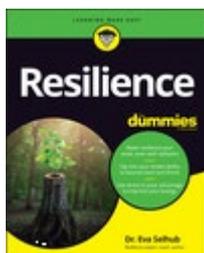
## セルフヘルプ

**Resilience For Dummies**

EVA M. SELHUB

**Activate a life of meaning, purpose, and health with the Six Pillars of Resilience**

Stress, anxiety, and exhaustion are all-too-common features of our crazy-paced, curveball-throwing contemporary existence, and it's sometimes hard to see how we can make it from one week to the next intact. But there's a solution to the struggle: resilience! In *Resilience For Dummies*, Dr. Eva Selhub--former Harvard Medical School instructor and director of the Benson Henry Institute for Mind Body Medicine at the Massachusetts General Hospital for six years--outlines the proven steps we can all take toward optimal resilience to build healthier, more purposeful, and increasingly joyful lives.



The six pillars of resilience are: physical vitality, emotional equilibrium, mental toughness and clarity, spiritual purpose, healthy personal relationships, and being an inspiring leader and part of a wider community or team. Dr. Selhub explains why each of these foundations is crucial to flourishing, how fortifying them gives us a base for attacking stress, hardship, and failure head-on, and how this confrontation then develops the strength we need for transformative change within our personal and professional lives.

- Know how genetics, education, and culture contribute to resilience
- Avoid learned helplessness and the victim mindset
- Harmonize stress and make it work for you
- Clear negative emotions and find your bliss
- Build up your physical, mental, and spiritual muscles

Famously, what doesn't kill you makes you stronger. Dr. Selhub's six pillars of resilience show you how to put this principle into practice, face down whatever trouble comes your way, and come out thriving on the other side.

APRIL 2021 UnknownPP  
978-1-119-77341-2 PB \$26.99 (Japan)  
Self-Help Special Topics

## 社会学

**Forms of Capital**

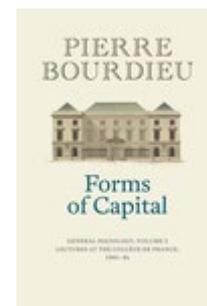
General Sociology, Volume 3

PIERRE BOURDIEU &amp; TRANSLATED BY PETER COLLIER

College de France

READERSHIP: Scholars and students of sociology, anthropology, media and cultural studies, and the social sciences and humanities generally.

APRIL 2021 450PP  
978-1-5095-2670-3 CL \$45.00 (Japan)  
General Sociology



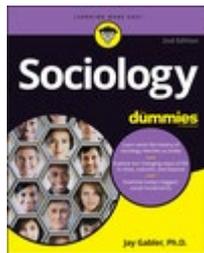
## Sociology For Dummies

2nd Edition

JAY GABLER

Rasmussen College

Sociology For Dummies 2e aids readers in understanding this complex field of study and helps them both when deciding to take a class as well as when participating in a course. The ability to use a sociological lens is more important now than ever; there have been recent foundational changes in how we understand society. Recent dialogue surrounding health care, politics, race, and gender now occur with frankness and urgency that will be addressed. Updates:- 2020 and societal upheaval- Shifted politics- Me Too- Climate Change- Social Media mediating our lives



APRIL 2021 UnknownPP  
978-1-119-77281-1 PB \$24.99 (Japan)  
GENERAL SOCIOLOGY

## Essential Concepts in Sociology

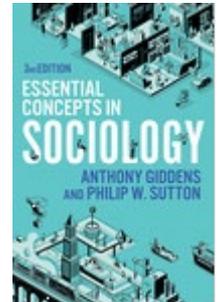
3rd Edition

ANTHONY GIDDENS & PHILIP W. SUTTON

London School of Economics and Political Science; Robert Gordon University, Aberdeen

READERSHIP: first-year undergraduates or those taking introductory courses in sociology

APRIL 2021 248PP  
978-1-5095-4808-8 CL \$69.95 (Japan)  
978-1-5095-4809-5 PB \$24.95 (Japan)  
Introduction to Sociology



## Concise Reader in Sociological Theory

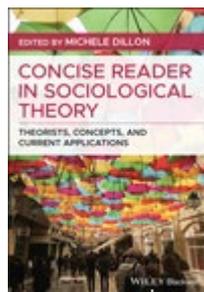
Theorists, Concepts, and Current Applications

MICHELE DILLON

University of New Hampshire, USA

**Essential writings from classical and contemporary sociological theorists engagingly introduced and brought to life for students**

This *Concise Reader in Sociological Theory* contains excerpts from the writings of a wide range of key theorists who represent the dynamic breadth of classical and contemporary, macro- and micro-sociological theory. The selected writings elaborate on the core concepts and arguments of sociological theory, and, along with the commentary, explore topics that resonate today such as: crisis and change, institutions and networks, power and inequality, race, gender, difference, and much more.



The text contains editorial introductions to each section that clearly explain the intellectual context of the theorists and their arguments and reinforce their relevance to sociological analysis and society today. The excerpts include writings from the classicists Karl Marx, Max Weber, Emile Durkheim, W.E.B. Du Bois to the contemporary Patricia Hill Collins, Dorothy Smith, Raewyn Connell. This indispensable book:

- Offers a concise review of the diverse field of sociological theory
- Includes contributions from a wide range of noted classical and contemporary theorists
- Incorporates engaging empirical examples from contemporary society
- Demonstrates the relevance and significance of the ideas presented in the theorists' writings

Designed for undergraduate and graduate students in sociology and in social and political theory, *Concise Reader in Sociological Theory* is an engaging and accessible guide to the most relevant sociological theorists.

APRIL 2021 416PP  
978-1-119-53618-5 PB \$44.95 (Japan)  
Social Theory

## Infoselves

The Value of Online Identity

DEMETRA GARBASEVSCHI

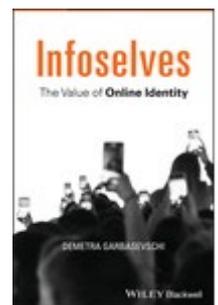
*Infoselves* delivers a multifaceted analysis of the commodification of self-identity online, from both a domination and a liberation perspective. Drawing on multiple resources, the book places its discussion of online identity within the larger context of self-identity evolution, arguing for the recognition of online identity as a

legitimate component of the self-identity system. Advertising executive turned academic, Demetra Garbasevschi offers readers the means to understand the way our online identities are formed and used, to reflect on the future of self-identity, and to become more aware of the radical implications of our digital footprint.

Readers will discover what it means to be an infoself in a deep digital context, from exploring the informational makeup of self-identity, to examining the various sources of identity information found online, to exposing the uses of this information through both latent and assertive self-commodification. Considering the many sources of information contributing to our identity narrative online, some beyond our direct control, managing the self is presented as one the greatest challenges of our digital present.

Perfect for graduate students in advertising, branding, and public relations, *Infoselves* also belongs on the bookshelves of those studying fields involving digital media. Working professionals in any of these areas will also benefit from this book's insightful analyses of a variety of viewpoints on online identity.

APRIL 2021 208PP  
978-1-119-64215-2 PB \$49.95 (Japan)  
Social Identity



## Contemporary Health Studies

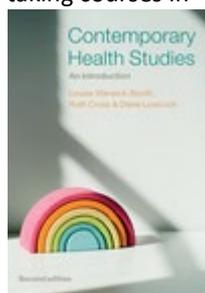
### An Introduction

LOUISE WARWICK-BOOTH, RUTH CROSS & DIANE LOWCOCK

Leeds Metropolitan University; Leeds Metropolitan University; Leeds Metropolitan University

**READERSHIP:** undergraduate students taking courses in Health Studies and Public Health, as well as in medical and allied health courses.

APRIL 2021 392PP  
978-1-5095-3952-9 CL \$89.95 (Japan)  
978-1-5095-3953-6 PB \$34.95 (Japan)  
Sociology of Health & Illness

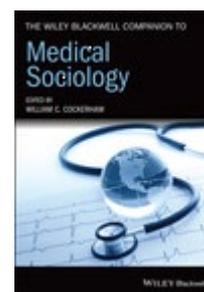


## The Wiley Blackwell Companion to Medical Sociology

EDITOR WILLIAM C. COCKERHAM

University of Alabama, Birmingham

**A comprehensive collection of original essays by leading medical sociologists from around the world, fully updated to reflect contemporary research and global health issues** The Wiley Blackwell Companion to Medical Sociology is an authoritative overview of the most recent research, major theoretical approaches, and central issues and debates within the field.



Bringing together contributions from an international team of leading scholars, this wide-ranging volume summarizes significant new developments and discusses a broad range of globally-relevant topics. The Companion's twenty-eight chapters contain timely, theoretically-informed coverage of the coronavirus pandemic and emerging diseases, bioethics, healthcare delivery systems, health disparities associated with migration, social class, gender, and race. It also explores mental health, the family, religion, and many other real-world health concerns. The most up-to-date and comprehensive single-volume reference on the key concepts and contemporary issues in medical sociology, this book: *The Wiley Blackwell Companion to Medical Sociology* is an authoritative overview of the most recent research, major theoretical approaches, and central issues and debates within the field. Bringing together contributions from an international team of leading scholars, this wide-ranging volume summarizes significant new developments and discusses a broad range of globally-relevant topics. The Companion's twenty-eight chapters contain timely, theoretically-informed coverage of the coronavirus pandemic and emerging diseases, bioethics, healthcare delivery systems, health disparities associated with migration, social class, gender, and race. It also explores mental health, the family, religion, and many other real-world health concerns.

SERIES: WILEY BLACKWELL COMPANIONS TO SOCIOLOGY

APRIL 2021 608PP  
978-1-119-63375-4 CL \$185.00 (Japan)  
Sociology of Health & Illness

## Experiments

Planning, Analysis, and Optimization, 3rd Edition

C. F. JEFF WU & MICHAEL S. HAMADA

Member of the National Academy of Engineering; Los Alamos National Laboratory

### A COMPREHENSIVE REVIEW OF MODERN EXPERIMENTAL DESIGN

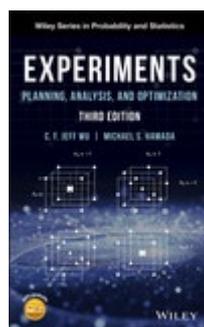
*Experiments: Planning, Analysis, and Optimization, Third Edition* provides a complete discussion of modern experimental design for product and process improvement—the design and analysis of experiments and their applications for system optimization, robustness, and treatment comparison. While maintaining the same easy-to-follow style as the previous editions, this book continues to present an integrated system of experimental design and analysis that can be applied across various fields of research including engineering, medicine, and the physical sciences. New chapters provide modern updates on practical optimal design and computer experiments, an explanation of computer simulations as an alternative to physical experiments. Each chapter begins with a real-world example of an experiment followed by the methods required to design that type of experiment. The chapters conclude with an application of the methods to the experiment, bridging the gap between theory and practice.

The authors modernize accepted methodologies while refining many cutting-edge topics including robust parameter design, analysis of non-normal data, analysis of experiments with complex aliasing, multilevel designs, minimum aberration designs, and orthogonal arrays.

*Experiments: Planning, Analysis, and Optimization, Third Edition* is an excellent book for design of experiments courses at the upper-undergraduate and graduate levels. It is also a valuable resource for practicing engineers and statisticians.

SERIES: WILEY SERIES IN PROBABILITY AND STATISTICS

APRIL 2021 784PP  
978-1-119-47010-6 CL \$135.00 (Japan)  
Experimental Design



## Modern Industrial Statistics

With Applications in R, MINITAB, and JMP

3rd Edition

RON S. KENETT & SHELEMYAHU ZACKS

KPA Ltd., Israel ; Binghamton University

*Modern Industrial Statistics: with applications in R, MINITAB and JMP, 2nd edition* combines theoretical background with examples and references to the latest techniques in R, MINITAB and JMP so that practitioners can find relevant material on both the foundation and implementation tools to support their work. Topics covered include computer intensive data analysis, acceptance sampling, statistical process control, design of experiments, customer surveys design and analysis. The book can be used for a two semester course on industrial statistics to third year undergraduate and graduate students in statistics, industrial engineering and business schools. Examples and case studies used come from the electronics, metal work, pharmaceutical and financial industries.

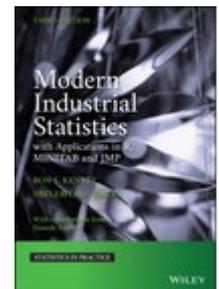
New topics include:

- Quality by Design in the Pharmaceutical Industry
- Design and Analysis of Customer Surveys
- Computer Experiments
- Survival Experiments

Graduate and post-graduate students in the areas of statistical quality and engineering, as well as industrial statisticians, researchers and practitioners in these fields will all benefit from the comprehensive combination of theoretical and practical information provided in this single volume.

SERIES: STATISTICS IN PRACTICE

APRIL 2021 662PP  
978-1-119-71490-3 CL \$110.00 (Japan)  
ENGINEERING STATISTICS

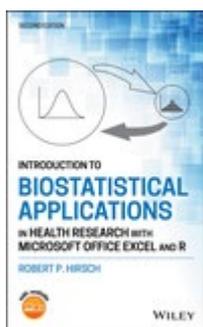


## Introduction to Biostatistical Applications in Health Research with Microsoft Office Excel and R

2nd Edition

ROBERT P. HIRSCH

The second edition of *Introduction to Biostatistical Applications in Health Research* delivers a thorough examination of the basic techniques and most commonly used statistical methods in health research. Retaining much of what was popular with the well-received first edition, the thoroughly revised second edition includes a new chapter on testing assumptions and how to evaluate whether those assumptions are satisfied and what to do if they are not.



The newest edition contains brand-new code examples for using the popular computer language R to perform the statistical analyses described in the chapters within. You'll learn how to use Excel to generate datasets for R, which can then be used to conduct statistical calculations on your data.

The book also includes a companion website with a new version of BAHR add-in programs for Excel. This new version contains new programs for nonparametric analyses, Student-Newman-Keuls tests, and stratified analyses.

Perfect for health researchers of all kinds, *Introduction to Biostatistical Applications in Health Research* also belongs on the bookshelves of anyone who wishes to better understand health research literature. Even those without a great deal of mathematical background will benefit greatly from this text.

APRIL 2021 640PP  
978-1-119-72259-5 CL \$130.00 (Japan)  
Biostatistics

## Introduction to Meta-Analysis

2nd Edition

MICHAEL BORENSTEIN, UNITED STATES, LARRY V. HEDGES,  
JULIAN P. T. HIGGINS & HANNAH R. ROTHSTEIN, UNITED STATES

Biostat Inc, USA; Northwestern University, US; Medical  
Research Council, UK; Baruch College, New York, USA

The first edition of *Introduction to Meta-Analysis* has become the standard by which all books on meta-analysis are judged. From the date of its publication through today, it consistently shows up first on Amazon in a search for "Meta-Analysis" in Books. It has consistently sold more copies than any other book on the topic. It consistently gets five-star ratings from readers, who invariably cite the clarity of the presentation. It has been widely adopted as a text for classes in meta-analysis.

The book provides a clear and thorough introduction to meta-analysis, the process of synthesizing data from a series of separate studies. This second edition reflects recent developments in the field, while maintaining the clarity that has made the first edition so successful.

This second edition also a collaboration between the same authors who have continued to work together on a series of projects and papers over the past decade and whose new findings richly serve this new edition. Each of them brings a unique perspective to the book, and they have developed an easy way of working together, so that the collaborative effect is more than the sum of its parts.

APRIL 2021 450PP 978-1-119-55835-4 CL \$75.00 (Japan)  
BIostatISTICS

## Applications of Quantile Regression of Experimental and Cross Section Data using EViews

I. GUSTI NGURAH AGUNG

Quantile regression aims at estimating either the conditional median or other quantiles of the response variable. Essentially, quantile regression is the extension of linear regression and we use it when the conditions of linear regression are not applicable.

LS-Regressions, Ordinary-Regressions or Mean-Regressions, the Quantile-Regressions (QRs) can be classified into three groups. The first group consists of the QRs with categorical variables, called ANOVA QRs, where ordinal variables are treated as nominal variables and the numerical independent variables (IVs) are transformed to ordinal variables. The second group consists of the QRs with numerical variables, where the ordinal variables are treated as the numerical IVs. The third group consists of the various interaction QRs with numerical and categorical IV, where the ordinal variables can be treated as either numerical or nominal categorical IVs.

Applications of Quantile Regression of Experimental and Cross Section Data using EViews presents examples of statistical results of various QRs in order to display their richer characteristics, based on the LS-Regression, Ordinary-Regressions, or Mean-Regressions. It offers instructions how to develop the best possible QRs and how to present more advanced analysis by using the Quantile Process, the Wald test, the Redundant Variables test, Omitted Variables Test, and forecasting, as well as to draw the best conclusions from results. A mathematical knowledge of quantile regression is not necessary so this book is applicable to students and lecturers in statistics, data analysis and engineering.

APRIL 2021 496PP  
978-1-119-71517-7 CL \$120.00 (Japan)  
Regression Analysis

## Big Data

Concepts, Technology, and Architecture

BALAMURUGAN BALUSAMY, NANDHINI ABIRAMI R & AMIR H. GANDOMI

This book offers comprehensive coverage of Big Data tools, terminologies and technologies for researchers, business professionals and graduates. This book begins with an overview of what Big Data is and emphasizes all the key concepts of big data end to end. Big Data concepts, technologies, terminologies and storing, processing and analysis techniques and much more



-- are all logically organized and reinforced by diagrams and case studies. This book refines readers' understanding of Big Data with in-depth analysis of key concepts. The case studies provided in this book give insight on key concepts. The initial chapters of the book shed light on various characteristics of Big Data that distinguish it from traditional Database Management systems. Big Data Analytics are covered in detail in a separate chapter. Hadoop, the heart of Big Data is handled in the Big Data processing chapter and a deep understanding of its concepts is provided.

APRIL 2021 384PP  
978-1-119-70182-8 CL \$135.00 (Japan)  
Data Analysis

## Applied Univariate, Bivariate, and Multivariate Statistics

Understanding Statistics for Social and Natural Scientists, With Applications in SPSS and R

2nd Edition

DANIEL J. DENIS

This second edition improves greatly on the first edition by making the book more accessible to a wider audience, through minimizing theoretical or technical jargon and maximizing conceptual understanding with easy applied software examples. As a book for applied social science, only the absolute necessary mathematics are used in motivating conceptual development and applications. This allows researchers and their students to apply these methods quickly, efficiently, and with relative ease without having to wade through dense technical arguments. Assuming only minimal prior exposure to statistics, by completion the reader will have a solid intuitive grasp of introductory univariate to relatively advanced multivariate statistical methods and be able to apply them efficiently and effectively using software. This revised edition has been thoroughly vetted to correct errata found in the first edition, is more concise and easy to use, and will lend itself well for a textbook in applied courses at both the senior undergraduate and beginning graduate levels. The book will also serve as a useful reference for practitioners and researchers in the aforementioned fields.



APRIL 2021 576PP  
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MULTIVARIATE ANALYSIS

## An Introduction to Correspondence Analysis

ERIC J. BEH & ROSARIA LOMBARDO

This book is intended as an introductory text supplementing the authors' advanced level/specialist book *Correspondence Analysis: Theory, Methods and New Strategies* (Wiley, August 2014). This introduction will provide the reader with a discussion of the key issues concerned with correspondence analysis that is discussed in great detail in the earlier book; there will be relatively little theory beyond the basics (no proofs, no equivalent statements -- just one framework), no methods will be discussed that have not been available to the analyst for decades, and there will be no new strategies. Once the reader has reached the appropriate level of mastery of the technique, they can then move onto the more thorough examination of the mathematical and bibliographic aspects of the technique presented in the advanced text.

SERIES: WILEY SERIES IN PROBABILITY AND STATISTICS

APRIL 2021 220PP  
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Multivariate Analysis

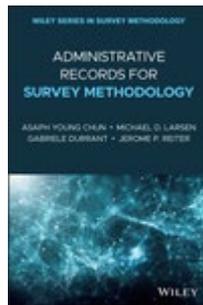
## テストプレップ

## Administrative Records for Survey Methodology

ASAPH YOUNG CHUN & MICHAEL D. LARSEN

University of Maryland; Harvard University

Featuring contributions from well-known international experts, this book addresses the methodological issues involved in administrative data research as well as the various concerns users face with administrative records such as issues of privacy, confidentiality, and legality. The book illustrates numerous real-world examples of administrative data research from various countries, culminating in a comprehensive guide to administrative data in statistical surveys. This historical and international perspective provides readers with a better understanding of the practical applications and approaches needed for improving the quality of surveys, controlling the cost of survey data collection, and integrating administrative data with other data obtained from surveys and censuses. This book also features detailed coverage on the advanced statistical techniques for the control of data quality and reduction in total survey error. The first part of the book focuses on the theory of total administrative records error and provides relevant practices case studies tied to the survey life-cycle, while the second part of the book features the technical issues of processing and linking administrative data with multiple sources of data in multimode data collection. Bayesian approaches are linked to real-world applications for the use of administrative data in surveys and censuses over the survey life cycle, and the relevance of how these cutting-edge techniques can affect administrative records research is illustrated in key sectors of health, economy, and education.



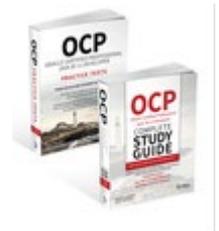
SERIES: WILEY SERIES IN SURVEY METHODOLOGY

APRIL 2021 400PP  
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Survey Research Methods & Sampling

## OCP Java SE 11 Developer Complete Certification Kit

JEANNE BOYARSKY & SCOTT SELIKOFF

NOTE: After the release of the Developer Complete Study Guide, Oracle completely revamped the Java SE 11 certification by retiring Exams 1Z0-815 and 1Z0-816. You're now only required to pass the new Exam 1Z0-819. The Upgrade Exam 1Z0-817 remains the same. Even though the exams have changed, the same topics are covered (but are presented in a different order). You can rest assured, however, that this Certification Kit provides complete coverage of the Java SE 11 certification exam.



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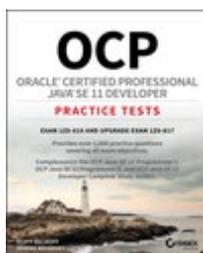
## 獣医学

**OCP Oracle Certified Professional Java SE 11 Developer Practice Tests**

Exam 1Z0-819 and Upgrade Exam 1Z0-817

SCOTT SELIKOFF &amp; JEANNE BOYARSKY

*NOTE: The OCP Java SE 11 Programmer I Exam 1Z0-815 and Programmer II Exam 1Z0-816 have been retired (as of October 1, 2020), and Oracle has released a new Developer Exam 1Z0-819 to replace the previous exams. The Upgrade Exam 1Z0-817 remains the same.*



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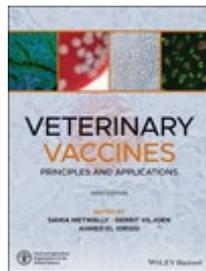
reference featuring easily readable reviews of the latest research in vaccinology and vaccine immune response to pathogens of major economic impact to livestock.

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- Gives readers advice and recommendations on which vaccination schemes are most effective
- Discusses the today's state of vaccines and vaccination against selected transboundary animal diseases as well as possible future developments in the field

*Veterinary Vaccines: Principles and Applications* is an important resource for veterinary practitioners, animal health department officials, vaccine scientists, and veterinary students. It will also be of interest to professional associations and NGO active in livestock industry.

APRIL 2021 350PP  
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The all-new *Equine Hematology, Cytology, and Clinical Chemistry* draws on hematology and clinical chemistry information featured in the first edition of *Equine Clinical Pathology* and adds valuable cytopathology material from *Diagnostic Cytology and Hematology of the Horse*, making it a truly definitive reference to clinical pathology in equids.

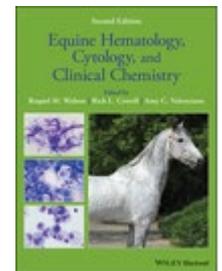
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VETERINARY MEDICINE - EQUINE



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