

JAPAN PREVIEW

October 2022



WILEY

PICK OF THE MONTH ~ 今月のお勧めタイトル**Analysis of Enzyme Reaction Kinetics**

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→P22

Medical Toxicology: Occupational and Environmental Exposures, Multi-Volume

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Metaversed : See Beyond The Hype

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JAPAN PREVIEW

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芸術

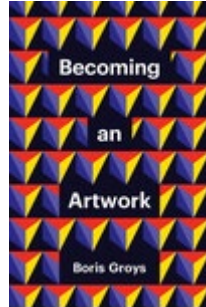
Becoming an Artwork

BORIS GROYS

READERSHIP: Students and scholars in art and art history, and general readers interested in contemporary art.

SERIES: THEORY REDUX

OCTOBER 2022 140PP
978-1-5095-5196-5 CL \$45.00 (Japan)
978-1-5095-5197-2 PB \$12.99 (Japan)
Art History & Theory

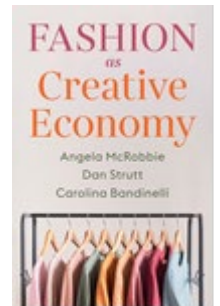
**Fashion as Creative Economy**

Micro-Enterprises in London, Berlin and Milan

ANGELA MCROBBIE, DAN STRUTT & CAROLINA BANDINELLI

Goldsmiths, University of London, UK

READERSHIP: Undergraduates, graduates and scholars of Media and Cultural studies, Sociology, Gender Studies, Urban Cultural Studies, Fashion Studies, Culture Industry Studies, and Creative Entrepreneurship Studies.



OCTOBER 2022 224PP
978-1-5095-5384-6 CL \$69.95 (Japan)
978-1-5095-5385-3 PB \$24.95 (Japan)
Fashion History & Theory

会計学

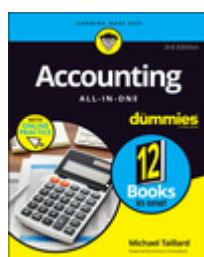
Accounting All-in-One For Dummies (+ Videos and Quizzes Online)

3rd Edition

MICHAEL TAILLARD, BEULAH, UNITED STATES, JOSEPH KRAYNAK, CRAWFORDSVILLE, UNITED STATES & KENNETH W. BOYD

A complete and easy-to-follow resource covering every critical step of the accounting process

Learning to love the language of business is easier than you think! In the newly revised Third Edition of *Accounting All-In-One For Dummies with Online Practice*, finance expert Michael Taillard walks you through every step of the accounting process, from setting up your accounting system to auditing and detecting financial irregularities.



You'll enjoy a unified compilation of mini-books and online practice and video resources that bring together everything you need to know about accounting into one convenient book and web portal. You'll learn to record accounting transactions, adjust and close entries, prepare income statements and balance sheets, and more. You'll also get:

- Online instructional videos that describe the modern reality of accounting in the digital age
- Guidance and instruction on how to make savvy financial decisions to help guide your business in the right direction
- Advice on how to handle case and make intelligent purchasing decisions
- Helpful practice quizzes for each topic to help you crunch the numbers

Perfect for anyone who's just beginning their career or education in accounting--as well as those who just love numbers--*Accounting All-in-One For Dummies* is also a must-read for business owners, founders, and managers who want to get a better understanding of the financial side of commerce.

OCTOBER 2022 UnknownPP
978-1-119-89766-8 PB \$34.99 (Japan)
GENERAL & INTRODUCTORY ACCOUNTING

Accounting Workbook For Dummies

2nd Edition

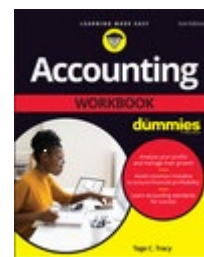
JOHN A. TRACY, BOULDER, UNITED STATES

University of Colorado

Number nightmares in accounting? No more!

The numbers are clear: the need for accountants is not only strong, but on the rise. With job growth projected to increase by 7% over the next 10 years, there's no time like the present to join this growing--and profitable--profession.

Accounting Workbook For Dummies, 2nd Edition gives you the hands-on instruction you need to understand complicated concepts through demonstration problems, practice worksheets, and spreadsheets.



- Understand the role of accountants versus bookkeepers
- Develop knowledge to establish and maintain high quality accounting systems
- Dip your toes into accounting in the digital age
- Learn to properly interpret financial statements and reports
- Generate income statements, balance sheets, and cash flow statements
- Expand your knowledge on sources of business capital
- Learn how to improve profits and manage costs

Understanding the intricacies of accounting has never been easier as in today's rapid-fire global economy, accountants have never been more important--it's all in your hands with this plain-English workbook!

OCTOBER 2022 UnknownPP
978-1-119-89763-7 PB \$24.99 (Japan)
GENERAL & INTRODUCTORY ACCOUNTING

農業

Modeling Processes and Their Interactions in Cropping Systems

Challenges for the 21st Century

EDITOR LAJPAT R. AHUJA, EDITOR CLAUDIO O. STOCKLE & EDITOR OLE WENDROTH

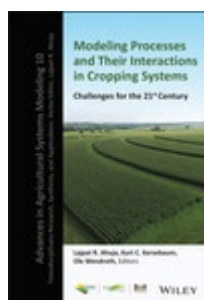
USDA, Fort Collins, CO

A complete discussion of soil-plant-climate-management processes

In *Modeling Processes and Their Interactions in Cropping Systems: Challenges for the 21st Century*, a team of distinguished researchers delivers a comprehensive and up-to-date scientific textbook devoted to teaching the modeling of soil-plant-climate-management processes at the upper undergraduate and graduate levels. The book emphasizes the new opportunities and paradigms available to modern lab and field researchers and aims to improve their understanding and quantification of individual processes and their interactions.

The book helps readers quantify field research results in terms of the fundamental theory and concepts broadly generalizable beyond specific sites, as well as predict experimental results from knowledge of the fundamental factors that determine the environment and plant growth in different climates.

The book will be essential reading for anyone interested in the 2030 breakthroughs in agriculture identified by the National Academies of Sciences, Engineering, and Medicine.



SERIES: ADVANCES IN AGRICULTURAL SYSTEMS MODELING

OCTOBER 2022 414PP
978-0-89118-385-3 CL \$195.00 (Japan)
Sustainable & Organic Agriculture

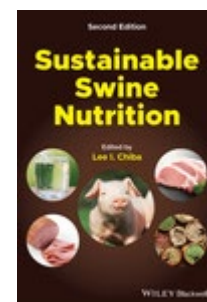
Sustainable Swine Nutrition

2nd Edition

EDITOR LEE I. CHIBA

Auburn University, USA

As climate change continues to have a significant impact on the modern world, it is crucial to find alternative sources of energy and nutrients for swine production. The development of optimal feeding revolves around a multitude of considerations—genetic variations in the pig, variability, availability, and stability of nutrients in feed ingredients, interactions among nutrients and non-nutritive factors, voluntary feed intake, physical (& social) environment of pigs, and more. Establishing the ideal network of factors will only grow in importance as humans assess the methods for our own food networks.



Sustainable Swine Nutrition is a comprehensive book on swine nutrition, covering some fundamental aspects of nutrition—namely digestive physiology, water, protein or amino acids, lipids, carbohydrates, energy metabolism, vitamins, minerals, and nutrition and immunology. Providing the most up-to-date information on each of these areas, a major emphasis of this second edition is on recent developments and current advances in the field, with a focus on pertinent issues linked with energy and nutrients. In doing so, the book highlights topics and issues that can contribute to the ultimate goal of successful and sustainable swine production.

Sustainable Swine Nutrition, Second Edition, is an ideal resource for livestock scientists and industry professionals involved in all aspects of pork production.

OCTOBER 2022 752PP
978-1-119-58389-9 CL \$199.95 (Japan)
ANIMAL AGRICULTURE

建築学

Carbon

A Field Manual for Building Designers

MATTI KUITTINEN, ALAN ORGANSCHI & ANDREW RUFF

A comprehensive approach to design that integrates sustainable principles and design strategies for decarbonized construction

Representing an international collaboration between academics and architects in the United States and Europe, *Carbon: A*

Field Manual for Designers and Builders offers professionals in the field an approach to sustainable design that embraces building science principles, life-cycle analysis, and design strategies in carbon neutral construction. The book also contains background information on carbon in construction materials and in the building design process.



This book is filled with illustrative diagrams and drawings that help evaluate the potential impact of design decisions for creating carbon emissions. Written by and for designers and builders, the book includes a compelling pair of case studies that explore carbon-reducing strategies, suggests steps for assessing a building's carbon footprint, and reviews carbon storages and circulation of materials. The guidelines detailed in the book can be adopted, replicated, and deployed to reduce carbon emissions and create more sustainable buildings. This important book:

- Offers an effective approach to sustainable design in construction
- Integrates building science principles, life-cycle analysis, and design strategies in carbon neutral construction
- Describes a methodology for quantifying the flow of carbon in the built environment
- Provides an analysis of carbon-reducing strategies based on a case study of a building designed by the authors

Written for practicing professionals in architecture and construction, *Carbon: A Field Guide for Designers and Builders* is a must-have resource for professionals who are dedicated to creating sustainable projects.

OCTOBER 2022 272PP
978-1-119-72076-8 CL \$60.00 (Japan)
Building Design

Serious Fun

The Arty-ecture of Will Alsop

EDITOR SAMANTHA HARDINGHAM

University of Westminster

Guest-edited by Samantha Hardingham

This issue of *AD* celebrates the extraordinary life and work of British architect Will Alsop (1947--2018) -- a career and portfolio that is both literally and metaphorically steeped in colour. Characterised as a maverick architect, Alsop was in truth an individualist who was all for the collective, and a non-conformist. His design aim was to replace 'a little misery in the world with a little joy and delight'. Far from diminutive in ambition, many of his built projects caused big shifts in thinking about ways for citizens to perceive, occupy and enjoy their cities. He believed deeply in the active participation of clients to explore their architectural ideas, involving them in workshops and the making of films to help them to see and better understand what design could positively do for them. His buildings and artworks are as contentious as they have been highly acclaimed, but never fail to amaze and inspire. His continuous engagement in teaching, lecturing and exhibiting throughout his career, with academic posts held in the UK, Germany, Austria, Australia and the US, meant he always remained in touch and was a consistent source of encouragement to new generations of architects entering the profession. This *AD* aims to harness that creative energy, commitment and camaraderie.

Contributors: Ollie Alsop, Thomas Aquilina, Nigel Coates, Peter Cook, Paul Finch, Mark Garcia, Clare Hamman, John Lyall, Bruce McLean, Will McLean, Kester Rattenbury, Marcos Rosello, and Neil Thomas.



SERIES: ARCHITECTURAL DESIGN

OCTOBER 2022 136PP
978-1-119-83393-2 PB \$45.00 (Japan)
Building Design

Practical Golf Course Maintenance

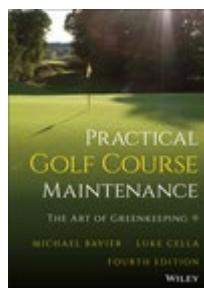
The Art of Greenkeeping, 4th Edition

MICHAEL BAVIER & LUKE CELLA

Inverness Golf Club, near Chicago, IL; The Midwest Association of Golf Course Superintendents, (MAGCS), IL

A Practical Step-by-Step Guide to Maintaining and Operating a Golf Course

From the fairway to the flagsticks, operating a golf course presents a variety of challenges. To maintain a beautiful course and ensure smooth day-to-day operations, one must possess a strong foundation of knowledge across many different fields. *Practical Golf Course Maintenance, Fourth Edition* assists golf industry professionals with every component of course management so that players have the best experience possible.



As seasoned golf industry professionals, the two authors have years of hands-on experience in the field solving problems relating to every facet of running a modern golf course.

Practical Golf Course Maintenance, Fourth Edition has been purposefully written to provide useful information to both the untrained and experienced greenkeeping professional. It serves as a thorough introduction of golf course maintenance to anyone interested in the profession, including course or club officials and managers, green committee members, and anyone who has a vested interest in understanding what it takes to run a golf course.

OCTOBER 2022 320PP
978-1-119-82334-6 CL \$85.00 (Japan)
TURF MANAGEMENT

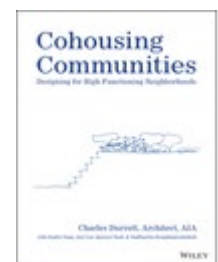
Cohousing Communities

Designing for High-Functioning Neighborhoods

CHARLES DURRETT

Explore a groundbreaking and holistic new approach to designing community-first neighborhoods

In *Cohousing Communities: Designing for High-Functioning Neighborhoods*, distinguished architect and affordable housing advocate Charles Durrett delivers a complete, start-to-finish guide for designing anything where the emphasis lies with the community. This book describes the consequential role that architecture and a healthy design process can play in the success of neighborhoods, churches, towns, and more. It's an inspiring collection of ideas that prioritize high-functioning neighborhoods.



In the book, the author draws on the success of hundreds of community-first projects to show readers how to design a project that addresses both timeless and modern challenges—from aging to climate change and racism—in its architecture and urban design. He compiles facts and concepts that are essential to the design of a high-functioning community, where people can participate in a way that reflects their values, improves their social connections, and retain their autonomy and privacy.

Perfect for university students and professors who strive to see new ways to create neighborhoods, *Cohousing Communities: Designing for High-Functioning Neighborhoods* will also earn a place in the libraries of universities planning new neighborhoods for retired alumni or new housing for students and faculty.

OCTOBER 2022 400PP
978-1-119-89770-5 PB \$39.95 (Japan)
Urban Development

ビジネス

The Human Side of Digital Business Transformation

KAMALES LARDI

Master the essential human component of digital transformation

In *The Human Side of Digital Business Transformation*, veteran emerging technology expert Kamales Lardi delivers an essential and practical exploration of the real-world implementation of digital transformation. The book teaches readers how to drive digital business transformation success by addressing a key element -- the people side of transformation. This includes managing internal stakeholders, such as leadership teams and employees, as well as external stakeholders, such as customer, partners and supplier.



The author provides a proven digital business transformation framework that facilitates the successful execution of new digital solutions. She also discusses:

- Digital maturity and transformation readiness assessments complete with supplementary, online tools
- Best practices and key learnings that drive the human side of transformation
- Real-world case studies and examples from renowned business leaders that offer success factors

A can't-miss resource for leadership teams, management, and board members, as well as change managers and leaders in organizations, *The Human Side of Digital Business Transformation* will also be invaluable for students in business and executive education programs, consultants, and other business leaders interested in digital transformation.

OCTOBER 2022 320PP
978-1-119-87101-9 CL \$34.95 (Japan)
Business Technology

Metaverse

A Business and Ethical Survival Guide

NICOLA ROSA

Together we will explore what the Metaverse is, how it works, the many use cases we are already aware of in the Metaverse, as well as look at why there are so many more we cannot yet see. I will also introduce you to some of the main threats and challenges businesses and individuals face as the Metaverse evolves and grows, sharing potential solutions to make this an inclusive virtual world that all of us can enjoy and use to its full potential.

I will also explain some of the key elements of technology that underpin the Metaverse in its current form and that will provide the necessary foundations for its growth and evolution in the future -- such as blockchain, cryptocurrency, AI and deep learning. I will build out the picture with you, helping you to turn some of the greyed-out map into a world filled with technicolour and exciting opportunities. By the end of this book, I hope you will feel confident to set out and explore more of this uncharted territory on your own.

OCTOBER 2022 256PP
978-1-119-91180-7 CL \$45.00 (Japan)
Business Technology

People-Driven Experience

The Battle for Trust in the Digital Age

ROBERT HARLES

Explore the human side of the latest digital technologies and trends

In *Human-Driven Experience: The Battle for Trust in a Digital Age*, veteran digital strategist delivers a must-read exploration of how to capture the attention of consumers whose tolerance for inauthenticity is at an all-time low. In the book, you'll discover ways to harness the sometimes whiplash-inducing pace of change in the marketplace to accelerate innovation in your own organisation.



The author discusses the need for increased mobility between functional areas like information technology, digital and marketing and how privacy and security must become essential components of your brand's promise to consumers. You'll also find:

- Strategies for creating end-to-end digital experiences that hit home with consumers
- Techniques for rising above the ever-loudening din of inauthentic advertising and marketing that has made consumers increasingly sceptical of new and established brands
- Incisive discussions of how data is becoming ever more targeted, identifiable and real-time -- and what to do about it

Perfect for executives, managers and other business leaders, *Human-Driven Experience* is also a can't-miss resource for marketing, digital and IT professionals looking for ways to make sense of a consumer landscape that's been turned upside down by digital technologies.

OCTOBER 2022 256PP
978-1-119-81298-2 CL \$39.95 (Japan)
Business Technology

Energy Leadership

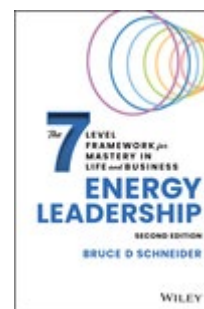
The 7 Level Framework for Mastery In Life and Business, 2nd Edition

BRUCE D SCHNEIDER, BRICK, UNITED STATES

Awaken your potential by harnessing the power of your energy.

How do you awaken the extraordinary potential in yourself and others?

In the newly revised second edition of *Energy Leadership: The 7 Level Framework for Mastery In Life and Business*, Bruce D Schneider, Master Certified Coach and founder of iPEC, the global coach training and leadership development company, offers a simple yet powerful answer to that question, and it all boils down to one word--energy.



Whether you're looking to create profound change in your personal life or build a conscious work culture humming with creativity, innovation, and unimaginable growth, you'll find the practical Energy Leadership framework and Core Energy Coaching skills contained within these pages to be an invaluable resource on your journey. And now, for the first time ever, you'll receive additional information once available only to participants in iPEC's advanced coach training program.

In the 15 years since the publication of the first edition of *Energy Leadership*, hundreds of thousands of people around the world have discovered the remarkable personal and professional transformation that's possible with this groundbreaking methodology--and now you can, too. Visit ipeccoaching.com to learn more.

OCTOBER 2022 288PP
978-1-119-89954-9 CL \$25.00 (Japan)
MANAGEMENT / LEADERSHIP

True North

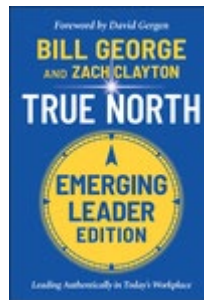
Leading Authentically in Today's Workplace,
Emerging Leaders Edition

BILL GEORGE & ZACH CLAYTON

Minneapolis, Minnesota

A Clarion Call to Emerging Leaders: Step Up and Lead Now!

In *True North, Emerging Leaders Edition*, renowned leadership expert Bill George and Millennial tech entrepreneur Zach Clayton issue the challenge to emerging leaders—from Gen X to Millennials and Gen Z—to lead their organizations authentically through never-ending crises to make this world a better place for everyone. Emerging leaders do so by discovering their True North—who they are—and then finding their North Star—their leadership purpose. To navigate today's complexities, George and Clayton show emerging leaders how to lead with their hearts, not just their heads, with passion, compassion, and moral courage by being true to their values, to reach their full potential as they take on great challenges and navigate complex crises.



Harvard professor Bill George, with four best-selling books to his credit including the timeless classic *True North* and is the former CEO of Medtronic who established authentic leadership in 2003, teams up with Zach Clayton, who has built Three Ships into a rapidly growing \$300 million enterprise, to give emerging leaders the definitive guide for leading in today's complex world.

Each chapter of the *Emerging Leader Edition* of *True North* is filled with dramatic stories from successful leaders such as Microsoft's Satya Nadella and Merck's Ken Frazier to PepsiCo's Indra Nooyi and General Motors' Mary Barra, and emerging leaders like OneTrust's Kabir Barday and Kanbrick's Tracy Britt Cool of how they overcame great challenges to build highly successful organizations.

The *Emerging Leader Edition* of *True North* is the classic guide for every current and aspiring leader to reach their full, authentic potential.

OCTOBER 2022 320PP
978-1-119-88610-5 CL \$32.00 (Japan)
MANAGEMENT / LEADERSHIP

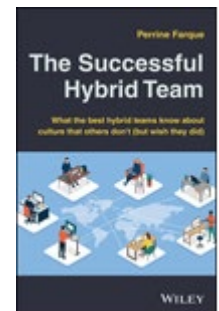
The Successful Hybrid Team

What the Best Hybrid Teams Know About Culture
that Others Don't (But Wish They Did)

PERRINE FARQUE

Proven strategies to build, nurture, and retain world-class talent in a hybrid environment

In *The Successful Hybrid Team: What the Best Hybrid Teams Know About Culture that Others Don't (But Wish They Did)*, award-winning diversity and inclusion expert Perrine Farque delivers an eye-opening look into what distinguishes world-class teams from the also-rans. The book explores the permanent changes being made in the modern workplace, how hybrid work is fundamentally changing the nature of teams, and the overwhelming importance of culture in determining performance.



The author introduces a four-pillar framework that details what you need to do to hire, lead, and retain a high-performing team in a hybrid world. You'll discover how to create a unified hybrid leadership team, how to build extreme clarity and transparency, how to overcommunicate through digital channels, and how to unify cross-cultural remote teams with cultural awareness.

A can't-miss resource for executives, managers, and other business leaders who find themselves dealing with the new reality of hybrid and remote work, *The Successful Hybrid Team* will also earn a place in the libraries of human resources and DEI professionals, remote workers, and anyone else who regularly interacts with colleagues, direct reports, or supervisors in a hybrid environment.

OCTOBER 2022 256PP
978-1-119-88855-0 PB \$27.50 (Japan)
Management / Teams

Training & Development For Dummies

2nd Edition

ELAINE BIECH, NORFOLK, UNITED STATES

Ebb Associates Inc.

Retain outstanding talent with a successful training and development program

One of the best ways to retain great talent in your business is to deliver a strong training and development program--and this book gives you the tools to do just that. Featuring the latest strides in talent development, such as social learning, hybrid training, creating videos, and more, it arms you with everything you need to upskill employees to be more effective, productive, satisfied, and loyal.

*Develop a robust training and development program

*Foster a supportive and innovative work environment

*Use mentoring, coaching, and informal learning effectively

*Align learning to your organization's needs

Engage your employees with a motivating training program using the helpful guidance in *Training & Development For Dummies*!



OCTOBER 2022 UnknownPP
978-1-119-89600-5 PB \$29.99 (Japan)
TRAINING & DEVELOPMENT

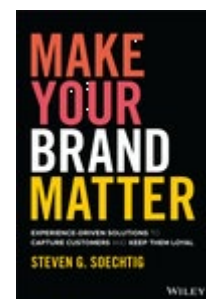
Make Your Brand Matter

Experience-Driven Solutions to Capture Customers and Keep Them Loyal

STEVEN SOECHTIG, NEW YORK

Combine brand and experience into a single, exciting whole to drive growth

The Digital Transformation era has come and gone. Experiential concepts like personalization, transparency, transference, uniqueness, and immediacy are now table stakes in an increasingly connected and responsive market. Companies that failed to ante up are already gone--or fading fast.



In *Make Your Brand Matter*, serial entrepreneur and brand strategist Steve Soechtig delivers an eye-opening discussion of the post-Digital Transformation era in which we now live. The book walks you through the evolution of brand and experience, leveraging examples of historical and digitally native brands that have succeeded and failed to seize the digital moment.

You'll discover brands that enabled new customer acquisition, customer value optimization, and customer loyalty, all the while realizing that brand and experience are two sides of the same coin. The book also offers:

- Strategies, techniques, and activities for teams to capture digital opportunities
- Discussions of why brand and experience reinforce one another and how experiences must embrace, reflect, and enforce brand identity
- Tactics to accelerate the customer's progression from evaluator to loyal advocate

Make Your Brand Matter is an essential resource for marketing professionals. It also belongs on the bookshelves of company founders, owners, managers, executives, and other business leaders seeking to develop their organization's ability to marry brand and experience into one coherent and exciting package.

OCTOBER 2022 224PP
978-1-119-86034-1 CL \$28.00 (Japan)
Marketing & Sales

Focused Fundraising

How to Raise Your Sights and Overcome Overload

CHRISTOPHER M. CANNON & MICHAEL FELBERBAUM

Maintain your focus, your productivity, and your sanity in the contemporary fundraising environment

In *Focused Fundraising: How to Raise Your Sights and Overcome Overload*, accomplished nonprofit management strategists and leaders Christopher Cannon and Michael Felberbaum deliver a must-read combination of the latest mindfulness techniques and operational strategies that will equip you to succeed in an increasingly chaotic, noisy, and confusing fundraising environment. You'll find concrete strategies to navigate the challenges of modern fundraising, including technology changes, scarce resources, and shifting donor expectations.



In the book, you'll also find:

- Hands-on skills for sharpening your focus while those around you are giving in to endless distractions
- An insightful combination of big-picture views and micro-considerations that offer a practical roadmap to set and stick with your priorities
- Practical applications of tried and true mindfulness and nonprofit strategy research that you can implement immediately in your organization

An essential, desk-side resource for nonprofit board members, managers, leaders, and team members, *Focused Fundraising* is a one-of-a-kind toolbox designed to help you tackle the challenges you face every day.

OCTOBER 2022 240PP
978-1-119-83527-1 CL \$28.00 (Japan)
Non-Profit Organizations / Fundraising & Grantsmanship

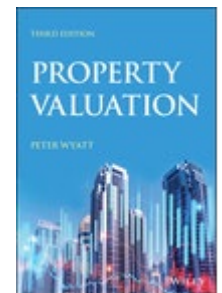
Property Valuation

3rd Edition

PETER WYATT

Reader, Faculty of the Built Environment, University of the West of England

Property Valuation provides a comprehensive examination of property valuation principles, methods, issues and applications of the valuation and appraisal of commercial and industrial property across investment, development and occupier markets. With a clear writing style, this easily accessible textbook presents valuation from the client perspective, offering balanced coverage of the theory and practice of single-asset pricing, risk and return issues.



The updated third edition reflects significant developments that have occurred in valuation over the past several years, particularly the expanding internationalisation of the valuation profession and the growing interest in valuation practice in emerging economies. Greater emphasis is placed on international content and context, such as the challenges of real estate asset valuation in countries with developing market economies, to offer a more global view of valuation practice. Throughout this edition, chapters link the most recent academic research to practical applications, incorporate the latest professional guidelines and standards and address land and property taxation, compulsory acquisition of land, the valuation of non-market goods and services and key valuation challenges with a more international perspective.

Property Valuation, Third Edition is an excellent textbook for advanced undergraduate and graduate courses including real estate finance, real estate economics, property surveying, valuation and land economics in the UK, Europe and North America. It is also a valuable resource for early-career practitioners preparing for professional competency assessments as well as those studying property valuation and appraisal in developing countries and emerging economies.

OCTOBER 2022 608PP
978-1-119-76741-1 PB \$85.00 (Japan)
PROPERTY & REAL ESTATE

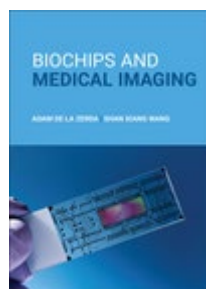
生体医用工学

Biochips and Medical Imaging

ADAM DE LA ZERDA & SHAN X WANG

Advanced, recent developments in biochips and medical imaging

Biochips and Medical Imaging is designed as a professional resource, covering recent biochip and medical imaging developments. Within the text, the authors encourage uniting aspects of engineering, biology, and medicine to facilitate advancements in the field of molecular diagnostics and imaging.



Biochips are microchips for efficiently screening biological analytes. This book aims at presenting information on the state-of-the-art and emerging biosensors, biochips, and imaging devices of the body's systems, including the endocrine, circulatory, and immune systems.

Medical diagnostics includes biochips (in-vitro diagnostics) and medical and molecular imaging (in-vivo imaging).

Biochips and Medical Imaging explores the role of in-vitro and in-vivo diagnostics. It enables an instructor to share in-depth examples of the use of biochips in diagnosing cancer and cardiovascular diseases.

- Provides real-life knowledge on biochips and medical imaging, written by leading researchers
- Serves as a resource for professionals working in the biochip or imaging fields
- Features an accessible approach for anyone interested in biochips and their applications

Readers of *Biochips and Medical Imaging* can expand their knowledge of medical technology, even if they have no biological knowledge and a limited math background. With its focus on important developments, this book is sure to also capture the interest of bioengineering and biomaterials scientists, structural biologists, electrical engineers, and nanotechnologists.

OCTOBER 2022 416PP
978-1-118-91050-4 CL \$180.00 (Japan)
Biomedical Imaging

土木工学

Computational Methods for Reinforced Concrete Structures

Theory and Applications, 2nd Edition

ULRICH HAUSSLER-COMBE, MARK ALEXANDER AHRENS & PETER MARK

Concrete is by far the most used building material due to its advantages: it is shapeable, cost-effective and available everywhere. To be the building material of the 21st century its sustainability has to move into focus. Reinforced concrete structures have to be designed expending less material whereby their load carrying potential has to be fully utilized.

Computational methods such as Finite Element Method (FEM) provide essential tools to reach the goal. In combination with experimental validation, they enable a deeper understanding of load carrying mechanisms. A more realistic estimation of ultimate and serviceability limit states can be reached compared to traditional approaches. This allows for a significantly improved utilization of construction materials and a broader horizon for innovative structural designs opens up.

However, sophisticated computational methods are usually provided as black boxes. Data is fed in, the output is accepted as it is, but an understanding of the steps in between is often rudimentary. This has the risk of misinterpretations, not to say invalid results compared to initial problem definitions. The risk is in particular high for nonlinear problems. As a composite material, reinforced concrete exhibits nonlinear behaviour in its limit states, caused by interaction of concrete and reinforcement via bond and the nonlinear properties of the components. Its cracking is a regular behaviour. The book aims to make the mechanisms of reinforced concrete transparent from the perspective of numerical methods. In this way, black boxes should also become transparent. Appropriate methods are described for beams, plates, slabs and shells regarding quasi-statics and dynamics. Concrete creeping, temperature effects, prestressing, large displacements are treated as examples. State of the art concrete material models are presented. Both the opportunities and the pitfalls of numerical methods are shown. Theory is illustrated by a variety of examples.



OCTOBER 2022 448PP
978-3-433-03310-4 PB \$95.00 (Japan)
978-3-433-30001-5 eBundle edition \$113.62 (Japan)
STRUCTURES

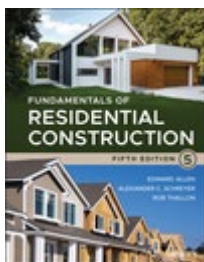
Fundamentals of Residential Construction

5th Edition

EDWARD ALLEN, SOUTH NATICK, UNITED STATES, ALEXANDER C. SCHREYER & ROB THALLON

University of Oregon

Fundamentals of Residential Construction provides clear, accurate, and accessible guidance to every step of single family and multifamily home construction, covering site preparation, project delivery methods, scheduling, foundations, framing, roofing, finishes, heating and cooling, plumbing and electrical, as well as emerging techniques such as prefabricated construction. Illustrated with more than 1,250 high-quality drawings, photographs, and photorealistic renderings throughout, this thorough textbook addresses all major construction systems: light wood frame, heavy timber, masonry, light gauge steel, steel frame, reinforced concrete construction, and outdoor structures.



The fifth edition is thoroughly revised to reflect the industry's latest methods, materials, technologies, and green building approaches, offering the most up-to-date explanations of today's residential construction systems and current building codes, including the International Residential Code (IRC) and energy codes. This edition features entirely new materials sections on metals, plastics, and composite construction as well as expanded and updated content on ventilation, air-sealing, decks, and outdoor structures.

Fundamentals of Residential Construction, Fifth Edition, remains essential reading for anyone looking to successfully complete a residential project. It is a perfect textbook for students in architecture, construction science, construction management, and building technology, and is a valuable reference for professional builders, construction managers, and designers.

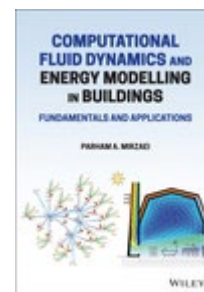
OCTOBER 2022 832PP
978-1-119-81156-5 CL \$129.95 (Japan)
CONSTRUCTION

Computational Fluid Dynamics and Energy Modelling in Buildings

Fundamentals and Applications

PARHAM A. MIRZAEI

In the first part of the book, the author explains the fundamentals of fluid mechanics, thermodynamics, and heat transfer with a specific focus on their application in buildings. This background knowledge sets the scene to further model heat and mass transport in buildings, with explanations of commonly applied simplifications and assumptions. In the second part, the author elaborates how the fundamentals explained in part 1 can be used to model energy flow in buildings, which is the basis of all commercial and educational building energy simulation tools. An innovative illustrative nodal network concept is introduced to help readers easily comprehend the basics of conservation laws in buildings. The application of numerical techniques to form dynamic simulation tools are then introduced. In general, understanding these techniques will help readers to identify and justify their choices when working with building energy simulation tools, rather than using default settings.



Detailed airflow information in buildings cannot be obtained in building energy simulation techniques. Therefore, part three is focused on introducing computational fluid dynamics (CFD) as a detailed modeling technique for airflow in buildings. This part starts with an introduction to the fundamentals of the finite volume method used to solve the governing fluid equations and the related challenges and considerations are discussed. The last chapter of this part covers the solutions to some practical problems of airflow within and around buildings.

The key aspect of *Computational Fluid Dynamics and Energy Modeling in Buildings: Fundamentals and Applications* is that it is tailored for audiences without extensive past experience of numerical methods. Undergraduate or graduate students in architecture, urban planning, geography, architectural engineering, and other engineering fields, along with building performance and simulation professionals, can use this book to gain additional clarity on the topics of building energy simulation and computational fluid dynamics.

OCTOBER 2022 642PP
978-1-119-74351-4 PB \$80.00 (Japan)
Building Maintenance & Services

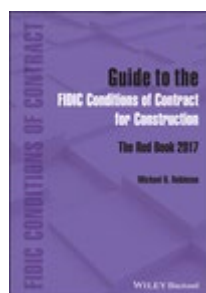
Guide to the FIDIC Conditions of Contract for Construction

The Red Book 2017

MICHAEL D. ROBINSON

Colorlink Inc, USA

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



- A summarized general review of the Red Book from the Contractor's perspective.
- A review of the activities and duties of the Contractor's Representative in the same clause sequencing as they appear in the Red Book.
- A summary of these activities and duties but arranged in order of their likely time sequence on site. This assists the Contractor's Representative in providing relevant documentation to the Employer and Engineer within the time limits specified in the Contract.
- A selection of model letters is provided which refer to the various clauses of the contract requiring the Contractor to make submissions to the Employer or Engineer.

It is not intended to be a review of the legal aspects of FIDIC-based contracts, but is designed to be highly practical, helping the contractor's staff avoid or overcome some of the difficulties encountered on a typical international contract using the 2017 FIDIC forms.

OCTOBER 2022 180PP
978-1-119-85662-7 CL \$120.00 (Japan)
Construction law

Engineering for Sustainable Development

Theory and Practice

WAHIDUL K. BISWAS & MICHELE JOHN

Engineering for Sustainable Development: Theory and Practice bridges the gap between engineering and sustainability, encompassing theory, practices and case studies. It provides an introduction to the sustainable development agenda and sustainable technology development, and also covers practical methods and tools for the development and implementation of sustainable solutions.



This book is divided into four parts: Engineering Sustainability Challenges; Sustainability Assessment Tools; Sustainable Engineering solutions; and Conclusions. Topics covered include life cycle analysis, industrial symbiosis, industrial ecology and green engineering principles, sustainability matrix and eco-efficiency for developing sustainable engineering solutions.

Engineering for Sustainable Development: Theory and Practice includes a wide range of industry applications, including civil, mechanical, electrical and chemical engineering, and is accompanied by a website hosting website hosting additional case studies, video clips, research articles and workshop activities.

OCTOBER 2022 320PP
978-1-119-72098-0 CL \$120.00 (Japan)
Environmental Engineering

化学工学

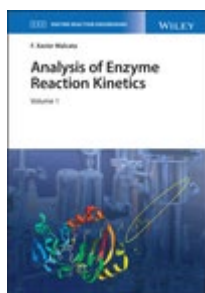
Analysis of Enzyme Reaction Kinetics

F. XAVIER MALCATA

Instituto Superior da Maia

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

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



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

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

SERIES: ENZYME REACTION ENGINEERING

OCTOBER 2022 1472PP
978-1-119-49024-1 CL \$425.00 (Japan)
General & Introductory Chemical Engineering

Managing Engineering, Procurement, Construction, and Commissioning Projects

A Chemical Engineer's Guide

AVINASHKUMAR V. KARRE

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

Engineering, Procurement, Construction and Commissioning (EPCC) infrastructure projects require engineers from several disciplines to adhere to strict budgetary, scheduling, and performance parameters. Chemical engineers involved in EPCC projects are involved primarily in ensuring that the process plant is designed correctly and safely--interacting with the client, contributing to feasibility studies, selecting specific technologies, developing process flow diagrams, and other key tasks.



Managing Engineering, Procurement, Construction, and Commissioning Projects: A Chemical Engineer's Guide clearly defines the role of a chemical engineer in the EPCC industry and provides detailed and systematic coverage of each phase of an EPCC project. Drawing from their extensive experience in process design, optimization, and analysis, the authors identify and discuss each key task and consideration from a chemical engineer's perspective. Topics include scope and process planning, construction support, operator training, safety and viability evaluation, and detail engineering.

Managing Engineering, Procurement, Construction, and Commissioning Projects: A Chemical Engineer's Guide is a must-have resource for chemists in industry, process engineers, chemical Engineers, engineering consultants, and project managers and planners working on EPCC projects across the chemical Industry.

OCTOBER 2022 192PP
978-3-527-34836-7 CL \$105.00 (Japan)
Theory, Planning & Management

Simultaneous Mass Transfer and Chemical Reactions in Engineering Science

BERTRAM K. C. CHAN

Mass transfer as a principle is an essential part of numerous unit operations in biomolecular, chemical, and process engineering; crystallization, distillation, and membrane separation processes, for example, use this important method. Given this significance--particularly in engineering design where these processes occur--understanding the design and analysis of such unit operations must begin with a basic understanding of how simultaneous mass transfer and the chemical reactions that influence these occurrences. It is also vital to be aware of the most up-to-date technologies for analyzing and predicting the phenomena.



Given the significance of this process, *Simultaneous Mass Transfer and Chemical Reactions* is an important resource as it introduces the reader to the complex subject of simultaneous mass transfer with biochemical and chemical reactions and gives them the tools to develop an applicable design. Analyzing the systems of simultaneous mass transfer and reactions is at the core of this book, as all known design approaches are carefully examined and compared. The volume also provides the reader with a working knowledge of the latest technologies--with a special focus on the open-sourced computer programming language R--and how these tools are an essential resource in quantitative assessment in analysis models.

Simultaneous Mass Transfer and Chemical Reactions provides a working knowledge of the latest information on simultaneous mass transfer and reactions by focusing on the analysis of this process, as well as discussing the existence and distinctive quality of the solutions to the *Simultaneous Mass Transfer and Chemical Reactions* is a useful reference for students in chemical engineering, biotechnology, or chemistry, as well as professional process and chemical engineers.

OCTOBER 2022 672PP
978-3-527-34665-3 CL \$185.00 (Japan)
Computer-Aided Engineering

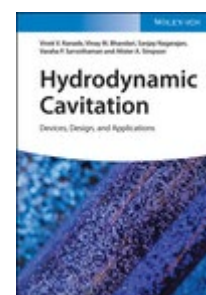
Hydrodynamic Cavitation

Devices, Design and Applications

VIVEK V. RANADE, VINAY M BHANDARI, SANJAY NAGARAJAN,
VARAHA P SARVOTHAMAN & ALISTER A. SIMPSON

A systematic introduction to critical technologies and applications of hydrodynamic cavitation

In *Hydrodynamic Cavitation: Devices, Design, and Applications*, a distinguished team of researchers delivers an authoritative discussion of key aspects of hydrodynamic cavitation, including the design, characterization, and modeling of the devices. The book offers discussions of state-of-the-art applications of the technology, including the disinfection of water, wastewater treatment, biomass processing, and many other industrial applications.



In addition to expansive case studies, the book provides an up-to-date exploration of emerging innovations and future applications of the technology. Readers will also find:

- A thorough introduction to hydrodynamic cavitation devices, including those based on axial and rotational flows
- An in-depth examination of the experimental characterization of cavitation devices and computational models
- Comprehensive explorations of the applications of hydrodynamic cavitation, including the disinfection of water and wastewater treatment
- Accessible discussions of industrial applications of hydrodynamic cavitation

Perfect for chemical and process engineers, water chemists, mechanical engineers, and food chemists, *Hydrodynamic Cavitation* will also earn a place in the libraries of food and environmental technologists.

OCTOBER 2022 352PP
978-3-527-34643-1 CL \$175.00 (Japan)
Process Engineering

Fundamentals of Industrial Problem Solving

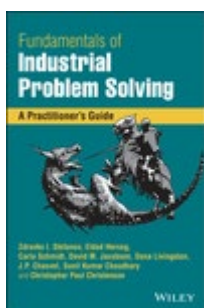
A Practitioner's Guide

ZDRAVKO I. STEFANOV, ELDAD HERCEG, CARLA SCHMIDT, DAVID JACOBSON, DANA LIVINGSTON, J.P. CHAUVEL, SUNIL KUMAR CHAUDHARY & CHRISTOPHER PAUL CHRISTENSON

Teaches Readers How to Apply a Structured Problem-Solving Methodology for Industrial Fields Based on Sound Scientific Principles

As modern industrial processes have become increasingly complex, complicated multi-factor problems have emerged. These complex problems end up costing companies millions of dollars every day. Existing problem-solving techniques are only effective to a certain point. This book provides a solution to a myriad of industrial problems by using first principles and rigorous hypothesis testing. Key topics covered within the work include:

- How to use the latest research, advanced modeling, big data mining, analytical testing, and many other techniques to systematically create and test hypotheses surrounding why a process is malfunctioning
- How to use scenario development to frame a team's understanding of why a process is malfunctioning
- How to approach today's lack of experienced industrial workers, whose failure to approach problem solving from first fundamentals are causing myriad of inefficiencies in industry
- How to use multiple methodologies together with an emphasis on first principles and mechanistic math modeling as a basis to industrial problem solving



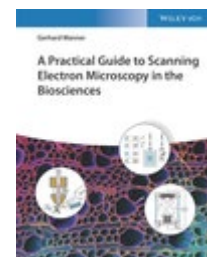
Engineers of any discipline working in both research and development of manufacturing environments, along with professionals in any industrial discipline looking to reduce costs will be able to use this work to both understand and pragmatically solve the pressing issues we see in today's industrial market.

OCTOBER 2022 384PP
978-1-119-54318-3 CL \$160.00 (Japan)
Process Development

A Practical Guide to Scanning Electron Microscopy in the Biosciences

GERHARD WANNER

In *Scanning Electron Microscopy in the Biosciences: A Practical Guide* distinguished electron microscopist Gerhard Wanner delivers a practical handbook for biological scientists working with microbial, plant, and animal cells and tissues, enabling them to successfully apply scanning electron microscopy (SEM) to their object of study.



The book begins with an introduction to the principles of electron microscopy and the operation of electron microscopes before moving on to describe the preparation and mounting of specimens. It also explores the process of recoding images and their subsequent analysis, along with a wide range of advanced microscopy techniques, including cryo-SEM, tomography, FIB-SEM, and stereo-SEM.

Scanning Electron Microscopy in the Biosciences contains hundreds of carefully selected microscopic images, as well as hands-on, step-by-step guidance required to perform a successful TEM experiment. Readers will also find:

- Thorough introductions to optics, electron microscopy, electrons, and the components of electron microscopes
- In-depth examinations of the preparation of biological specimens and specimen mounting for scanning electron microscopy
- A comparison of different SEM modes and their strengths and weaknesses
- An introduction to novel techniques such as correlative light and electron microscopy (CLEM), array tomography, and cryo-scanning electron microscopy

Perfect for cell biologists and microbiologists, *Scanning Electron Microscopy in the Biosciences: A Practical Guide* also belongs in the libraries of neurobiologists and biophysicists.

OCTOBER 2022 400PP
978-3-527-35049-0 CL \$150.00 (Japan)
Microscopy

Fundamentals of Water Security

Quantity, Quality, and Equity in a Changing Climate

JIM F. CHAMBERLAIN & DAVID A. SABATINI

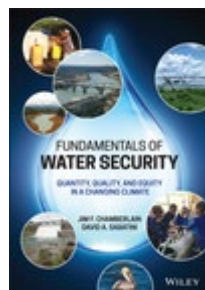
Enables Students and Practitioners to Understand How to Manage Water Resources to Equitably Meet Both Human and Ecological Needs

Burgeoning populations and the ever-higher standards of living for those in emerging countries increase the demand on our water resources. What is not increasing, however, is the supply of water and the total amount of water in earth's biosphere--water that is integral to all standards of living. *Fundamentals of Water Security* provides a foundation for understanding and managing the quantity-quality-society nexus of water security.

In a broad sense, the work explores solutions to water security challenges around the world. It is richly illustrated and pedagogically packed with chapter learning objectives, foundation sections reviewing quantitative skills, case studies, and short vignettes of people who have made major contributions to aspects of water security. To further aid in reader comprehension, it features end-of-chapter problems--both qualitative and quantitative, with solutions available to instructors. Finally, the work includes extensive references--gathering books, journal articles, and government and NGO reports.

Students taking courses on hydrology, water security, and/or water resource management, along with scientists of many disciplines in fields where water security is a factor will be able to use *Fundamentals of Water Security* as a comprehensive textbook to understand and help solve this critical issue that is becoming more and more prevalent in societies every single year.

OCTOBER 2022 464PP
978-1-119-82464-0 PB \$109.95 (Japan)
Water Chemistry



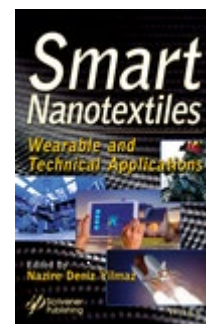
Smart Nanotextiles

Wearable and Technical Applications

NAZIRE D. YILMAZ

This book comprehensively reviews utilization of state-of-the-art smart nanotextiles in various application areas including:

- Targeted and controlled drug release
- Wound care and regenerative medicine
- Sports
- Fashion
- Energy Generation
- Industrial Applications
- Filtration
- Civil and Geotechnical Engineering
- Transportation



OCTOBER 2022 464PP
978-1-119-65478-0 CL \$249.00 (Japan)
Industrial Chemistry

Human and Animal Filariases

Landscape, Challenges, and Control

EDITOR RONALD KAMINSKY, EDITOR TIMOTHY G. GEARY &
SERIES EDITOR PAUL M. SELZER

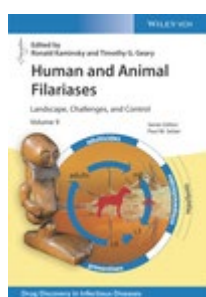
Intervet Innovation GmbH, Schwabenheim, Germany

The rational approach to controlling human and animal diseases caused by nematodes

Filariæ are a family of parasitic worms which infect animals and humans, causing severe diseases such as elephantiasis (lymphatic filariasis) and river blindness (onchocerciasis) in humans, as well as heartworm disease (dirofilariasis) in dogs and cats. While these diseases are rarely fatal, the blindness and disfigurement resulting from these infections constitute a severe burden for the affected individuals and to the healthcare systems in many tropical countries. In 2017, the World Health Organization classified several filariases as neglected tropical diseases and announced a new program seeking to eradicate these infections, which has in turn sparked a new push to develop antifilarial drugs.

Considering the current and future importance of this topic, *Human and Animal Filariases* takes a comprehensive look at infections by filarial parasites in humans and in animals. It begins by reviewing the current state of diagnosis and chemotherapy, before addressing the increasing resistance to available antifilarial drugs. This is followed by strategies and approaches for the discovery of novel drugs and finally by looking at alternative and supplementary approaches to combat the parasites, including vector control and vaccination.

Human and Animal Filariases is a unique reference for parasitologists, veterinarians, as well as professionals in the pharmaceutical industry and in public health agencies.



Extractables and Leachables

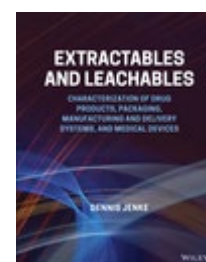
Characterization of Drug Products, Packaging, Manufacturing and Delivery Systems, and Medical Devices

DENNIS JENKE

Learn to address the safety aspects of packaged drug products and medical devices

In *Chemical (Extractables and Leachables) Characterization*, the product quality aspects of compatibility (including safe use) for drugs (and their containers, delivery devices and manufacturing systems) and medical devices are examined at length, focusing particularly on how trace-level extractables and leachables affect the quality and safety of a therapeutic product and how to assess the magnitude of the effect. This is done by addressing the two critical activities required to develop, register and commercialize safe, effective and affordable clinical therapies; measuring extractables and leachables (chemical characterization) and assessing their impact (for example, toxicological safety risk assessment). Each of these activities is addressed in-depth, based on the existing and developing international regulations and guidelines, current published literature and the author's extensive personal experience. Written by a key contributor to standards, guidelines, recommended practices and the relevant scientific literature, the book provides "insider" insights beyond what can be gained by merely reading the relevant texts. In addition, given that the extractables-and-leachables landscape has changed dramatically in the last decade, this book provides the reader with the most up-to-date and crucial information on new and forthcoming regulations and best practices.

Chemical (Extractables and Leachables) Characterization is the essential reference for pharmaceutical scientists, analytical chemists, regulatory affairs professionals, engineers, and toxicologists in areas such as product research and development, product registration and approval, regulatory affairs, analytical science, quality control, and manufacturing.



SERIES: DRUG DISCOVERY IN INFECTIOUS DISEASES

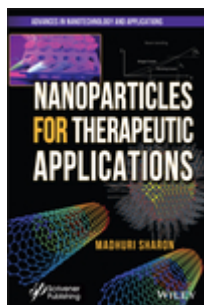
OCTOBER 2022 576PP
978-3-527-34659-2 CL \$205.00 (Japan)
Pharmaceutical & Medicinal Chemistry

OCTOBER 2022 456PP
978-1-119-60507-2 CL \$195.00 (Japan)
Drug Discovery & Development

Nanoparticles for Therapeutic Applications

MADHURI SHARON

The main goal of this book is to provide information on theranostic applications of various nanomaterials for different diseases with self-explanatory illustrations and fundamental descriptions of a plethora of properties of molecular traits.



The author has written a fascinating book on research topics and fundamentals in the cross-disciplinary area of nanotechnology and bioscience in which she successfully fuses otherwise divergent research topics of this rapidly emerging area.

The book deals with the use of nanomaterials for combatting various diseases and disorders of the human body. The three chapters of the first part of this book deal with the areas in which nanotechnology has contributed to nanomedicine. In the second part, different disorders like cancer, neurodegenerative diseases, genetic diseases, infectious diseases, cardiovascular disorders, eye, dentistry, bone, and cartilage-affecting diseases are discussed. In the chapters related to a disease or disorder of a particular organ, a basic brief introduction to them is given as well.

Audience

The book will be read by researchers, scientists, and graduate students in biotechnology, nanotechnology, materials science, and nanomedicine/biomedicine.

SERIES: ADVANCES IN NANOTECHNOLOGY AND APPLICATIONS

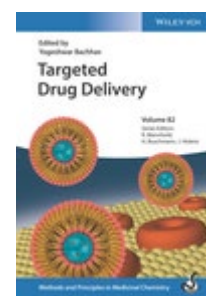
OCTOBER 2022 592PP
978-1-119-76230-0 CL \$249.00 (Japan)
Drug Formulation & Delivery

Targeted Drug Delivery

EDITOR YOGESHWAR BACHHAV, SERIES EDITOR RAIMUND MANNHOLD, SERIES EDITOR HELMUT BUSCHMANN & SERIES EDITOR JÖRG HOLENZ

University of Dusseldorf, Ge; Aachen, Germany; Laboratorios Dr. Esteve, Barcelona, Spain

Novel approaches in targeted drug delivery for both small molecule and biopharmaceutical drugs



Targeted Drug Delivery explores a new frontier in drug research that has become a focus for developing novel medications. The work discusses a wide range of approaches for targeting small molecules as well as peptide and macromolecular drugs, from prodrugs to drug conjugates to drug carriers and devices, helping readers to stay up to date on the latest developments in the field.

The following key topics are addressed:

- Antibody conjugates, prodrugs, and suicide therapeutics
- Protac technology for selectively degrading target proteins
- Delivery of nucleic acid drugs
- Novel drug carriers, such as liposomes, vesicles, and nanoparticles
- Unmet medical needs for which there is a large market potential, such as viral infections and cancer

For chemists, pharmacologists, and professionals in the wider pharmaceutical industry, *Targeted Drug Delivery* is a comprehensive guide on how to solve the greatest challenge in treating many diseases: delivering a pharmaceutically active substance to the target tissue in the body.

SERIES: METHODS & PRINCIPLES IN MEDICINAL CHEMISTRY

OCTOBER 2022 448PP
978-3-527-34781-0 CL \$175.00 (Japan)
Drug Formulation & Delivery

Medical Toxicology

Occupational and Environmental Exposures,
Multi-Volume

DONALD G. BARCELOUX & EDITOR ROBERT B. PALMER

Medical Toxicology of Occupational and Environmental Exposures: Metals, Radiation, and Cancer is the only reference which comprehensively covers

the clinical, analytical, and monitoring information needed by clinicians, students and investigators with interests in metals, radiation, and cancer. The information in all chapters is presented in a cogent, standardized format which greatly simplifies the use of the text as a reference. Reviewed by a distinguished panel of well-known toxicology experts, the information is critically evaluated and authoritative. The interdisciplinary, evidence-based approach is designed to reach beyond clinical settings to increase the scientific understanding of those in associated fields (analytical laboratories, universities, federal and state regulatory and environmental agencies) involved with decisions regarding metals, radiation, and chemical carcinogens. The consistent and concise style allows the reader to quickly locate the appropriate information necessary for informed decisions regarding the sources, host susceptibility, dose-response, clinical effect, health surveillance, and management of exposures to these substances. Additional information is readily available to the interested reader through the detailed bibliography at the end of each chapter.

- Vol 1 is written to be clinically-oriented with a consistent template, allowing easier access to detailed information on specific metals.
- Vol 2 provides information on the basic science and clinical medicine of radiation toxicology
- Vol 3 provides concise, comprehensive coverage of the genetic background and an organ-based approach to cancer-causing exposures, histology, host susceptibility, and clinical features.

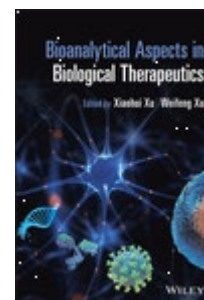


Bioanalytical Aspects in Biological Therapeutics

XIAOHUI (SOPHIA) XU & WEIFENG XU

Deepen your understanding of how critical data are generated from bioanalysis

In *Bioanalytical Aspects in Biological Therapeutics*, a team of renowned chemists, immunologists, and biologists delivers a timely and practical exploration of the diverse scientific and technical literature on the bioanalytical investigation of current biotherapeutics under development. The book discusses the challenges and considerations for bioanalytical support, covering a wide range of central topics in the field, including overview and basic immunology for testing of biological therapeutics, pharmacokinetic aspects, clinical immunogenicity prediction and testing, biomarker testing, biotransformation assessment for biologics, statistical aspects of bioanalytical testing, regulatory expectations, and more.



Drug development and analysis professionals will learn how critical data are generated from bioanalysis and how proven tools and methods are applied to the development of biologics. Perfect for pharmaceutical scientists in industry, *Bioanalytical Aspects in Biological Therapeutics* will also earn a place in the libraries of pharmaceutical regulators and other professionals working in pharmaceutical companies, as well as graduate students studying bioanalytical assays for biological therapeutics.

OCTOBER 2022 400PP
978-1-119-52321-5 CL \$165.00 (Japan)
Biopharmaceuticals & Pharmaceutical Biotechnology

OCTOBER 2022 2160PP
978-1-119-87296-2 CL \$750.00 (Japan)
Toxicology

Amide Bond Activation

Concepts and Reactions

EDITOR MICHAL SZOSTAK

Comprehensive resource on the pivotal role of the amide bond in organic synthesis

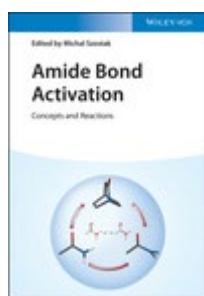
This book provides the reader with insight into the advances that have taken place in the field of amide bond activation. It focuses on both the fundamental structural properties of the amide bond and the synthetic reactions mediated by transition-metals.

By discussing amide bond activation in terms of modern organic synthesis, the reader is provided with a thorough overview of the area and its crucial role in forging carbon-carbon and carbon-heteroatom bonds. Sample topics discussed within the work include:

- Cross-coupling of amides
- Amide bond activation by twisting and nitrogen pyramidalization
- Electrophilic amide bond functionalization
- Transition metal-catalyzed radical reactions of amides
- Amide bond esterification and hydrolysis
- Classical bridged lactams and anomeric amides
- Computational studies of amide C-N bond activation

The book is immensely valuable to synthetic chemists in academia and the pharmaceutical industry who wish to gain an in-depth understanding of the concept of amide bond activation.

OCTOBER 2022 544PP
978-3-527-34831-2 CL \$165.09 (Japan)
Organic Chemistry



Organic Reaction Mechanisms 2019

MARK G. MOLONEY

St Peter's College, Oxford

Organic Reaction Mechanisms 2019, the 55th annual volume in this highly successful and unique series, surveys research on organic reaction mechanisms described in the available literature dated 2019. The following classes of organic reaction mechanisms are comprehensively reviewed:



- * Reaction of Aldehydes and Ketones and their Derivatives
- * Reactions of Carboxylic, Phosphoric, and Sulfonic Acids and their Derivatives
- * Oxidation and Reduction
- * Carbenes and Nitrenes
- * Nucleophilic Aromatic Substitution
- * Electrophilic Aromatic Substitution
- * Carbocations
- * Nucleophilic Aliphatic Substitution
- * Carbanions and Electrophilic Aliphatic Substitution
- * Elimination Reactions
- * Polar Addition Reactions
- * Cycloaddition Reactions
- * Molecular Rearrangements

An experienced team of authors compile these reviews every year, so that the reader can rely on a continuing quality of selection and presentation.

SERIES: ORGANIC REACTION MECHANISMS SERIES

OCTOBER 2022 336PP
978-1-119-60827-1 CL \$535.00 (Japan)
Organic Chemistry

Organic Reactions, Volume 110

EDITOR-IN-CHIEF P. ANDREW EVANS

Queen's University, Department of Chemistry, Kingston,
Canada

A carefully curated review of the scientific literature on selected organic reactions, Volume 110 of the Organic Reactions series delivers insightful invited reviews of primary research material in the field of organic chemistry. The latest volume explores the practical and theoretical aspects of the reaction under discussion. The Organic Reactions series is a renowned, peer-reviewed reference in publication since 1942. It is one of the leading secondary- and tertiary-level sources in organic chemistry today.



SERIES: ORGANIC REACTIONS

OCTOBER 2022 976PP
978-1-119-84166-1 CL \$425.00 (Japan)
Organic Chemistry

Metaversed

See Beyond The Hype

LUIS BRAVO MARTINS, LISBON, PORTUGAL, SAMANTHA G.
WOLFE, NEW YORK CITY, FOREWORD BY MARTINA WELKHOFF &
FOREWORD BY AMY LAMEYER

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

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



In the book, you'll understand:

- How multiple industries will be changed and challenged in a 3D spatial world and how to navigate the future crypto-laden business landscape;
- Legal and policy considerations necessary to build and maintain safe, shared digital spaces
- The economic and social impacts, including the potential for our digital lives to outlive our physical selves
- Actionable insights, so you can make the most out of the next digital revolution

Metaversed is a can't-miss presentation of the most significant market opportunities and societal challenges posed by the metaverse. It also will empower readers to take positive action that avoids the same online mistakes that happened on social media and create more responsible tech usage habits in our personal and professional lives.

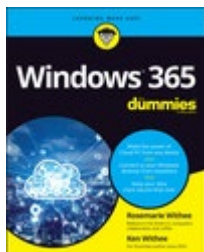
OCTOBER 2022 UnknownPP
978-1-119-88858-1 PB \$28.00 (Japan)
Internet General

Windows 365 For Dummies

ROSEMARIE WITHEE, SEATTLE, UNITED STATES & KEN WITHEE,
SEATTLE, UNITED STATES

Shift your PC to the cloud and liberate yourself from your desk

Microsoft's newest cloud-based operating system allows you to access your PC from any device. *Windows 365 For Dummies* teaches you the ins and outs of this game-changing OS. You'll learn how to make the most of Windows 365--get your work done, share documents and data, monitor storage space, and do it all with increased security. Oh, and did we mention you can do it from literally anywhere? Dummies will help you wrap your mind around cloud computing with Windows 365, so you can pick up with your files, data, and settings right where you left off, no matter where you are.



- Learn what a cloud PC is so you can access, edit, and share files from any device--even Apple devices
- Free yourself from the constraints of a physical computer and make work more flexible
- Ease the transition to Windows 365--get going with this new OS right away
- Discover powerful productivity-enhancing features and collaboration tools

This is the perfect Dummies guide for anyone moving to Windows 365 who needs to learn just what makes a cloud PC so unique and how to take advantage of all it offers.

OCTOBER 2022 UnknownPP
978-1-119-88051-6 PB \$26.99 (Japan)
Operating Systems / Microsoft Windows

Machine Learning and Data Science

Fundamentals and Applications

EDITOR PRATEEK AGRAWAL, EDITOR CHARU GUPTA, EDITOR
ANAND SHARMA, EDITOR VISHU MADAN & EDITOR NISHEETH
JOSHI

Machine learning (ML) and data science (DS) are very active topics with an extensive scope, both in terms of theory and applications. They have been established as an important emergent scientific field and paradigm driving research evolution in such disciplines as statistics, computing science and intelligence science, and practical transformation in such domains as science, engineering, the public sector, business, social science, and lifestyle. Simultaneously, their applications provide important challenges that can often be addressed only with innovative machine learning and data science algorithms.



The outstanding new volume focuses on the latest developments in machine learning and data science, as well as on the synergy between data science and machine learning. This book explores new developments in statistics, mathematics and computing that are relevant for data science from a machine learning perspective, including foundations, systems, innovative applications and other research contributions related to the overall design of machine learning and models and algorithms that are relevant for data science.

The book encompasses all aspects of research and development in ML and DS, including but not limited to data discovery, computer vision, natural language processing (NLP), intelligent systems, neural networks, AI-based software engineering, bioinformatics and their applications in the areas of engineering, business and social sciences. It covers a broad spectrum of applications in the community, from industry, government, and academia. Whether for the veteran engineer or scientist, the student, or a manager or other technician working in the field, this volume is a must-have for any library.

OCTOBER 2022 272PP
978-1-119-77561-4 CL \$195.00 (Japan)
Information Technologies

Mastering Microsoft Teams

Creating a Hub for Successful Teamwork in Office 365

CHRISTINA WHEELER & JOHNNY LOPEZ

Get the most out of Microsoft Teams with this comprehensive and insightful resource

Mastering Microsoft Teams: Creating a Hub for Successful Teamwork in Office 365 shows readers how to communicate intelligently and effectively within Microsoft's powerful Office 365. This book covers all the topics required for a full and comprehensive understanding of collaborating within the Microsoft suite of software, including:

- Architecture
- Implementing Teams
- Teams and Channels
- Chats, Calls and Meetings
- Extending Teams with Custom Apps
- Conferencing
- Security and Compliance
- Best Practices for Organizational Success

Written for IT administrators, managers, supervisors, and team members who participate or want to participate in a Microsoft Teams environment, *Mastering Microsoft Teams* introduces readers to the architecture and structure of the software before showing, in a straightforward and simple way, how to optimize the collaboration experience.



OCTOBER 2022 272PP
978-1-119-69788-6 PB \$45.00 (Japan)
Networking / Windows NT & Windows 2000

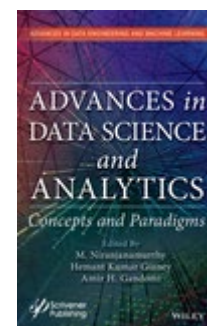
Advances in Data Science and Analytics

Concepts and Paradigms

M. NIRANJANAMURTHY, HEMANT KUMAR GIANEY & AMIR H. GANDOMI

Data science is an inter-disciplinary field that uses scientific methods, processes, algorithms and systems to extract knowledge and insights from many structural and unstructured data. Data science is related to data mining, deep learning and big data. Data analytics software is a more focused version of this and can even be considered part of the larger process. Analytics is devoted to realizing actionable insights that can be applied immediately based on existing queries. For the purposes of this volume, data science is an umbrella term that encompasses data analytics, data mining, machine learning, and several other related disciplines. While a data scientist is expected to forecast the future based on past patterns, data analysts extract meaningful insights from various data sources.

Although data mining and other related areas have been around for a few decades, data science and analytics are still quickly evolving, and the processes and technologies change, almost on a day-to-day basis. This volume provides an overview of some of the most important advances in these areas today, including practical coverage of the daily applications. Valuable as a learning tool for beginners in this area as well as a daily reference for engineers and scientists working in these areas, this is a must-have for any library.

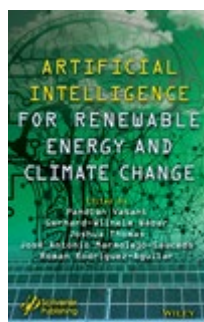


OCTOBER 2022 UnknownPP
978-1-119-79188-1 CL \$195.00 (Japan)
Data Mining & Knowledge Discovery

Artificial Intelligence in Renewable Energy and Climate Change

EDITOR PANDIAN VASANT, EDITOR GERHARD-WILHELM WEBER,
EDITOR JOSHUA THOMAS, EDITOR JOSÉ ANTONIO
MARMOLEJO-SAUCEDO & EDITOR ROMAN
RODRIGUEZ-AGUILAR

Renewable energy and climate change are two of the most important and difficult issues facing the world today. The state of the art in these areas are changing rapidly, with new techniques and theories coming online seemingly every day. It is important for scientists, engineers, and other professionals working in these areas to stay abreast of developments, advances, and practical applications, and this volume is an outstanding reference and tool for this purpose.



The paradigm in renewable energy and climate change shifts constantly. In today's international and competitive environment, lean and green practices are important determinants to increase performance. Corresponding production philosophies and techniques help companies diminish lead times and costs of manufacturing, to improve delivery on time and quality, and at the same time become more ecological by reducing material use and waste, and by recycling and reusing. Those lean and green activities enhance productivity, lower carbon footprint and improve consumer satisfaction, which in reverse makes firms competitive and sustainable. These topics are all covered here, in this comprehensive, practical, new groundbreaking volume, written and edited by a team of experts in the field. The editors and contributors also cover the fundamental concepts of IoT and other rapidly advancing technologies, including the latest research, technological developments, and practical applications. Valuable as a learning tool for beginners in this area as well as a daily reference for engineers and scientists working in these areas, this is a must-have for any library.

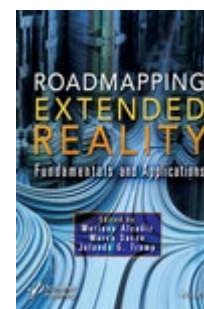
OCTOBER 2022 496PP
978-1-119-76899-9 CL \$225.00 (Japan)
Artificial Intelligence

Roadmapping Extended Reality

Fundamentals and Applications

EDITOR MARIANO ALCAÑIZ, EDITOR MARCO SACCO & EDITOR
JOLANDA G. TROMP

This book offers a comprehensive overview of the technological aspects of Extended Realities (XR) and discusses the main challenges and future directions in the field. It is divided into two parts: (1) fundamentals and (2) applications. The first part covers the main technological aspects of XR. The chapters in this section review and discuss relevant fundamental concepts of XR, the actual state-of-the-art and the future challenges. The second part of the book focuses on covering a wide range of applications of XR including a future roadmap. All in all, the book offers a snapshot of the state-of-the-art in XR, and addresses the needs of a multidisciplinary audience working in both academia and the industry, as well as stakeholders at government agencies and non-profit organizations. This book is important and timely -- XR technologies have overcome the 3 main aspects that were holding it back from mainstream adoption: cost, cables, size. However, there are many aspects of XR technologies that are now going to be explored and developed that still need urgent research in terms of security, privacy, health and safety, long-term effects, addiction risks, and age-related developmental concerns, and the aim is to inform all readers of the open issues and challenges. There are currently a great number of interdisciplinary researchers and developers working in the XR R&D field. Recently XR technologies moved from the Gartner Hype Cycle onto the Plateau of Productivity on the Gartner Hype Cycle signaling that the fundamental XR technologies are now deemed mature technologies, and deployment in a wide variety of application areas. Corroborated by the fact that XR technologies are part of the future Metaverse, a concept that went rapidly mainstream during the time of writing of this book.



OCTOBER 2022 384PP
978-1-119-86514-8 CL \$195.00 (Japan)
Artificial Intelligence

コミュニケーション

The Handbook of European Communication History

EDITOR KLAUS ARNOLD, EDITOR PASCHAL PRESTON & EDITOR SUSANNE KINNEBROCK

A groundbreaking handbook that takes a cross-national approach to the media history of Europe of the past 100 years

The Handbook of European Communication History is a definitive and authoritative handbook that fills a gap in the literature to provide a coherent and chronological history of mass media, public communication and journalism in Europe from 1900 to the late 20th century. With contributions from teams of scholars and members of the European Communication Research and Education Association, the Handbook explores media innovations, major changes and developments in the media systems that affected public communication, as well as societies and culture. The contributors also examine the general trends of communication history and review debates related to media development.



To ensure a transnational approach to the topic, the majority of chapters are written not by a single author but by international teams formed around one or more lead authors. The Handbook goes beyond national perspectives and provides a basis for more cross-national treatments of historical developments in the field of mediated communication.

Written for students and academics of communication and media studies as well as media professionals, *The Handbook of European Communication History* covers European media from 1900 with the emergence of the popular press to the professionalization of journalists and the first wave of multimedia with the advent of film and radio broadcasting through the rapid growth of the Internet and digital media since the late 20th century.

SERIES: HANDBOOKS IN COMMUNICATION AND MEDIA

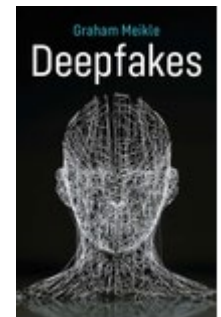
OCTOBER 2022 UnknownPP
978-1-119-16172-1 PB \$59.95 (Japan)
9781119161622 CL \$220.95, Published Oct 2019
General Communication & Media Studies

Deepfakes

GRAHAM MEIKLE

READERSHIP: Advanced undergraduates, postgraduates and scholars of Media, Communication, Cultural Studies and Sociology.

OCTOBER 2022 160PP
978-1-5095-4820-0 CL \$69.95 (Japan)
978-1-5095-4821-7 PB \$19.95 (Japan)
Media Studies



Screen Damage

The Dangers of Digital Media for Children

MICHEL DESMURGET & TRANSLATED BY ANDREW BROWN

READERSHIP: General readers interested in the social impact of digital media; parents, teachers and childcare practitioners



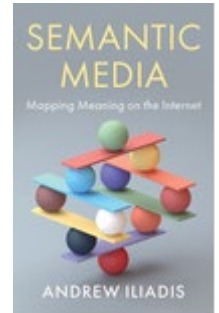
OCTOBER 2022 350PP
978-1-5095-4639-8 CL \$69.95 (Japan)
978-1-5095-4640-4 PB \$24.95 (Japan)
Media Studies

Semantic Media

Mapping Meaning on the Internet

ANDREW ILIADIS

READERSHIP: Advanced undergraduates, graduates and scholars in Media Studies and Science and Technology Studies.



OCTOBER 2022 160PP
978-1-5095-4257-4 CL \$65.00 (Japan)
978-1-5095-4258-1 PB \$19.99 (Japan)
Media Studies

文化研究

Is Affirmative Action Fair?

The Myth of Equity in College Admissions

NATASHA K. WARIKOO

READERSHIP: students and scholars of education, sociology of race, and political sociology, and general readers interested in debates over affirmative action

SERIES: DEBATING RACE

OCTOBER 2022 144PP
978-1-5095-4936-8 CL \$45.00 (Japan)
978-1-5095-4937-5 PB \$12.95 (Japan)
Race & Ethnicity Studies



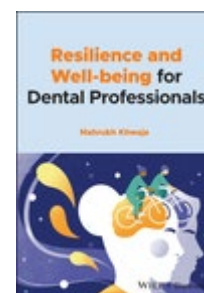
歯学

Resilience and Well-being for Dental Professionals

MAHRUKH KHWAJA

Essential reading for dental professionals and other healthcare workers wanting to build emotional resilience and positive mental health

Dentistry is a high-stress profession with elevated rates of anxiety, depression, burnout, suicidal thoughts and self-harm. Chronic workplace stress is a growing concern as it can severely damage the mental health of dental professionals and negatively impact their ability to provide appropriate care. Psychological interventions have been shown to greatly benefit the well-being and emotional resilience of the medical and healthcare community, yet resources that provide preventative tools are limited.



Resilience and Well-being for Dental Professionals, is designed not only to combat occupational hazards in Dentistry, such as burnout and compassion fatigue, but also to build resilience, engagement at work and nurture positive mental health through a variety of evidence-based tools. This invaluable guide helps readers utilise tools from the science of well-being (Positive Psychology, Mindfulness, Cognitive Behavioural Therapy and Acceptance and Commitment Therapy), to create happier, thriving careers.

Written by a Positive Psychologist, and Dentist, with more than 12 years' clinical dentistry experience within a stressful NHS environment, *Resilience and Well-being for Dental Professionals* is a must-have resource for all dental students, hygienists, therapists, dentists, dental nurses, dental technicians, specialists and allied healthcare workers.

OCTOBER 2022 208PP
978-1-119-81450-4 PB \$65.00 (Japan)
Dental Professional Practice

Adult Orthodontics

2nd Edition

EDITOR BIRTE MELSEN & EDITOR CESARE LUZI

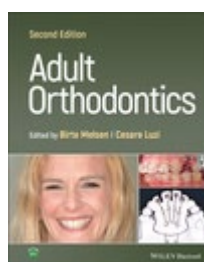
Royal Dental College, University of Aarhus, Denmark;
European Postgraduate Students Orthodontic Society (EPSOS)

Complete reference work covering the increasingly prominent area of adult orthodontics

Written by renowned contributors from the orthodontic community and compiled by world-class editors, *Adult Orthodontics, 2nd Edition* is an authoritative resource on the subject of adult orthodontics, marrying together clinical guidance with a thorough evaluation of the evidence base. Sample topics discussed within the book include:

- Context for adult orthodontics, including patient demographics and aetiology
- Treatment planning considerations, including patient case profiles, initial outcomes and longer-term expectations
- Interdisciplinary and multidisciplinary approaches, including the links between adult orthodontics and periodontics, prosthetics, and temporomandibular disorders

This book is an invaluable resource for professionals providing orthodontic treatment to adults and those dealing with orthodontics as part of the interdisciplinary management of the adult dentition.



Dentofacial Orthopedics in the Growing Child

Understanding Craniofacial Growth in the Management of Malocclusions

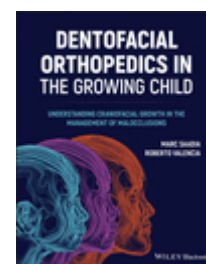
MARC SAADIA & ROBERTO VALENCIA

A clinical guide to understanding why malocclusions occur in children and how to diagnose and correct them early to reestablish normal growth using dentofacial orthopedics

Dentofacial Orthopedics in the Growing Child: Understanding Craniofacial Growth and the Management of Malocclusion provides step-by-step guidance on diagnosing and treating malocclusions in young patients.

The book addresses both class I, II and III malocclusions, and more complicated cases such as facial asymmetries and temporomandibular problems that develop in the primary dentition. Concise, highly illustrated chapters describe normal and abnormal craniofacial development, and how and why environmental factors can affect the growth pattern. Early diagnosis and treatment planning, long-term case resolution, complementary methods of diagnosis such as occlusion and cephalometric, and more are discussed.

Children are not young adults so diagnostic methods which are regularly used can often misguide the clinician. *Dentofacial Orthopedics in the Growing Child* is an invaluable reference that guides pediatric dentists, orthodontists, general dentists, and maxillofacial and craniofacial surgeons with treating children.



OCTOBER 2022 480PP
978-1-119-77577-5 CL \$170.00 (Japan)
ORTHODONTICS

OCTOBER 2022 832PP
978-1-119-72018-8 CL \$199.99 (Japan)
Orthodontics

教育

Practical Early Orthodontic Treatment**A Case-Based Review**

THOMAS E. SOUTHARD, STEVEN D. MARSHALL, LAURA L. BONNER & KYUNGSUP SHIN

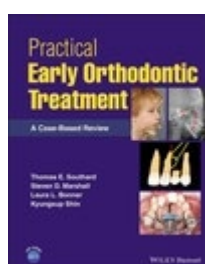
University of Iowa, Iowa City, IA, USA; University of Iowa, Iowa City, IA, USA; University of Iowa, Iowa City, IA, USA

Practical Early Orthodontic Treatment: A Case-Based Review delivers exhaustive instruction in the evaluation and treatment of childhood malocclusions and dentofacial deformities.

Written as a "mini-residency," this book uses a question-and-answer format to encourage the reader to think critically and gauge the progress of his/her understanding. It provides the reader with a robust foundation for making the best possible childhood evaluation and treatment decisions. The book offers:

- A thorough overview of general early treatment principles
- An extensive discussion of facial skeleton, airway, and dentition growth and development concepts
- Comprehensive explorations of early crowding, eruption problems, and missing succedaneous teeth
- Extensive presentations of early anteroposterior, vertical, and transverse problems with treatment solutions
- A vast collection of high-quality images illustrating the conditions and appropriate therapies
- 200-slide PowerPoint presentation covering the principles
- Video clips of lectures using a question-and-answer format

Perfect for orthodontists, pediatric dentists, and dentists in general practice, *Practical Early Orthodontic Treatment: A Case-Based Review* is also useful to residents and dental students with an interest in orthodontic care.



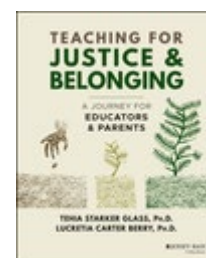
OCTOBER 2022 928PP
978-1-119-79359-5 CL \$249.99 (Japan)
Orthodontics

Teaching for Justice & Belonging**A Journey for Educators and Parents**

TEHIA STARKER GLASS & LUCRETIA CARTER BERRY

Create a classroom with a culture of true belonging, liberation, and justice for all

Teaching for Justice and Belonging: A Journey for Educators & Parents provides a practical and powerful blueprint to unrooting racism in the educational setting. The book is an easy-to-understand guide designed to cultivate an educational experience that inspires a culture of true belonging, liberation, and justice for all.



Relying on case studies, thorough research, and deeply personal and enlightening experiences drawn from the lives of the authors themselves, *Teaching for Justice and Belonging* also offers:

Demonstrations of how to explore personal and collective racial identity to learn more about oneself and others

Support for making systemic change within the spheres of influence of educators and parents

Real testimonials and stories to guide readers on their own healthy anti-racism journeys

A central piece of any anti-racism roadmap, this book is perfect for K-12 educators, administrators, and teacher leaders. It will also earn a place in the bookshelves of pre-service teachers and parents interested in unlearning racism and encouraging diverse voices in the education system.

OCTOBER 2022 192PP
978-1-119-83432-8 PB \$27.00 (Japan)
Teacher Education (K-12)

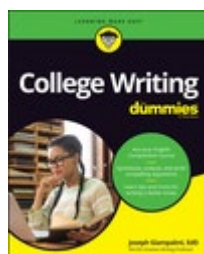
電気電子工学

College Writing For Dummies

JOE GIAMPALMI, CLEARWATER BEACH

Transform your next college essay into an A+ masterpiece

Taking a 100-level English composition course? Just doing your best to get ready for the rigors of college-level writing? Then it's probably time you picked up *College Writing For Dummies*, the single greatest roadmap to writing high-quality essays, reports, and more!



This book is the ideal companion for any introductory college writing course and tracks the curriculum of a typical English Composition, College Writing, English 101, or Writing & Rhetoric course. You'll learn composition techniques, style, language, and grammar tips, and discover how to plan, write, and revise your material. You'll also get:

- Ten can't-miss resources for improving your college writing
- Strategies for revising and repairing inadequate essays on your own
- Techniques to help non-native English speakers master the challenging world of English essay writing

Full of real-world examples, lessons in essay structure, grammar, and everything in between, this book is a must-read for every incoming college freshman looking for a head start in one of the most important skills you'll need over the next few years. Grab a copy of *College Writing For Dummies* today.

OCTOBER 2022 UnknownPP
978-1-119-89503-9 PB \$24.99 (Japan)
Writing

Antenna and Array Technologies for Future Wireless Ecosystems

EDITOR YINGJIE JAY GUO & EDITOR RICHARD W. ZIOLKOWSKI, TUCSON, UNITED STATES

University of Technology Sydney, Australia; University of Arizona

Discover a timely and accessible resource on the latest antenna and antenna array research driving new developments in the field



In *Antenna and Array Technologies for Future Wireless Ecosystems*, distinguished academics and authors Drs. Yingjie Jay Guo and Richard W. Ziolkowski deliver a cutting-edge resource for researchers, academics, students, and engineers who need the latest research findings on the newest challenges facing antenna designers who will be creating the technologies that drive future 6G and beyond wireless systems and networks.

This timely and impactful book offers the fundamental knowledge that will facilitate new research activities in the antennas and applied electromagnetics community, and conveys innovative and practical solutions to many wireless industry problems. Its international cohort of leading authors delivers their findings on a variety of advanced topics in antenna and array research, including metasurface antennas; electrically small directive antennas; RF, millimeter-wave and THz antennas and arrays; atom-based sensors, and arrays of quantum emitters.

This book is the companion of the Wiley book by the same authors, *Advanced Antenna Array Engineering for 6G and Beyond Wireless Communications*.

OCTOBER 2022 512PP
978-1-119-81388-0 CL \$150.00 (Japan)
Antennas & Propagation

Massive Connectivity

Non-Orthogonal Multiple Access to High Performance Random Access

JINHO CHOI

Learn to support more devices and sensors in Internet of Things applications through NOMA and machine-type communication

Non-orthogonal multiple access (NOMA) has held much interest due to its ability to provide a higher spectral efficiency--such as more bits per unit bandwidth in Hertz--than other, orthogonal multiple access schemes. The majority of this research focuses on the application of NOMA to downlink channels (from base station to users) in cellular systems as its use for uplink (users to base station) is somewhat circumscribed. However, NOMA has recently been employed in contention-based uplink access, which has shown an improvement in performance that allows an increase in the number of users that can be supported. As a result, NOMA is promising for machine-type communication (MTC) in 5G systems and beyond, making it a key enabler of the Internet of Things (IoT).

Massive Connectivity provides an in-depth, comprehensive view of the benefits and drawbacks of uplink NOMA random access (RA) systems. This text offers a basic introduction and description of uplink NOMA RA systems before considering the possibilities for evolution of the scheme as attempts are made to derive the most benefits and overcome any weaknesses. The book further presents key performance analysis while also highlighting game-theoretic views. In essence, by describing the essential properties of stable and high-throughput yielding RA systems, the book demonstrates that uplink NOMA can fulfill these required properties.

Massive Connectivity is a useful reference for field engineers and academics, as well as experts for random access systems for IoT applications.



Optical Switching

Device Technology and Applications in Networks

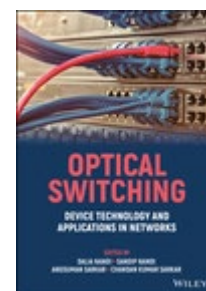
EDITOR DALIA NANDI, EDITOR SANDIP NANDI, EDITOR ANGSUMAN SARKAR & EDITOR CHANDAN SARKAR

Comprehensive coverage of optical switching technologies and their applications in optical networks

Optical Switching: Device Technologies and Applications in Networking delivers an accessible exploration of the evolution of optical networks with clear explanations of the current state-of-the-art in the field and modern challenges in the development of Internet-of-Things devices. A variety of optical switches--including MEMS-based, magneto, photonic, and SOA-based--are discussed, as is the application of optical switches in networks.

The book is written in a tutorial style, easily understood by both undergraduate and graduate students. It describes the fundamentals and recent developments in optical switch networks and examines the architectural and design challenges faced by those who design and construct emerging optical switch networks, as well as how to overcome those challenges. The book offers ways to assess and analyze systems and applications, comparing a variety of approaches available to the reader.

Perfect for researchers and professionals in the fields of telecommunications, Internet of Things, and optoelectronics, *Optical Switching: Device Technologies and Applications in Networking* will also earn a place in the libraries of advanced undergraduate and graduate students studying optical networks, optical communications and sensor applications.



OCTOBER 2022 384PP
978-1-119-81923-3 CL \$145.00 (Japan)
Optical Communications

SERIES: IEEE PRESS

OCTOBER 2022 192PP
978-1-119-77277-4 CL \$135.00 (Japan)
Mobile & Wireless Communications

Embedded Control for Mobile Robotic Applications

LEENA VACHHANI, PRANJAL VYAS & ARUNKUMAR G K

Indian Institute of Technology Bombay

An all-in-one resource for designing and implementing embedded control in mobile robotics

In *Embedded Control for Mobile Robotic Applications*, a distinguished trio of researchers delivers an authoritative and fulsome resource for understanding embedded control and robotics. The book includes coverage of a variety of embedded platforms, their use in controller implementation, stability analyses of designed controllers, and two new approaches for designing embedded controllers.



The authors offer a full chapter on Field-Programmable-Gate-Array (FPGA) architecture development for controller design that is perfect for both practitioners and students taking robotics courses and provide a companion website that includes MATLAB codes for simulation and embedded platform-specific code for mobile robotic applications (in Embedded C and Verilog).

The two approaches discussed by the authors--the top-down methodology and the bottom-up methodology--are of immediate practical utility to both practicing professionals in the field and students studying control applications and mobile robotics.

Perfect for practitioners working in embedded control design and control applications in robotics, *Embedded Control for Mobile Robotic Applications* will also earn a place in the libraries of academicians, researchers, senior undergraduate students, and graduate students in these fields.

SERIES: IEEE PRESS SERIES ON CONTROL SYSTEMS THEORY AND APPLICATIONS

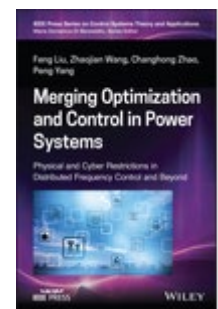
OCTOBER 2022 176PP
978-1-119-81238-8 CL \$130.00 (Japan)
Control Systems Technology

Merging Optimization and Control in Power Systems

Physical and Cyber Restrictions in Distributed Frequency Control and Beyond

FENG LIU, ZHAOJIAN WANG, CHANGHONG ZHAO & PENG YANG

With the increasing penetration of renewable energy sources and the promotion of Energy Internet, the power system is in a significant transition period, bringing major challenges for power system control. This book aims to provide a comprehensive and systematic framework to design distributed optimal controllers with cyber and physical restrictions. It introduces the idea of bridging the gap between optimization and control and shows how to handle various kinds of physical and cyber restrictions or special considerations. Related state-of-the-art methods are introduced and illustrated in detail with hands-on examples for readers to learn how to use them to address real control design problems in practice. Requiring foundational knowledge of power system analysis, operation, and dynamics, convex optimization theory, and control theory, this is an advanced level treatment for students, academics, and professional engineers.



SERIES: IEEE PRESS SERIES ON CONTROL SYSTEMS THEORY AND APPLICATIONS

OCTOBER 2022 432PP
978-1-119-82792-4 CL \$150.00 (Japan)
Control Systems Technology

SAR Image Analysis - A Computational Statistics Approach

With R Code, Data, and Applications

ALEJANDRO FRERY, JIE WU & LUIS GOMEZ

Discover how to use statistics to extract information from SAR imagery

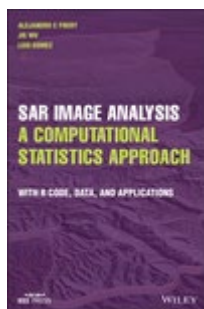
In *SAR Image Analysis -- A Computational Statistics Approach*, an accomplished team of researchers delivers a practical exploration of how to use statistics to extract information from SAR imagery. The authors discuss various models, supply sample data and code, and explain theoretical aspects of SAR image analysis that are highly relevant to practitioners and students.

The book offers the theoretical properties of models, estimators, interpretation, data visualization, and advanced techniques, along with the data and code samples, that students require to learn effectively and efficiently.

SAR Image Analysis -- A Computational Statistics Approach provides various exercises throughout the book to help readers reinforce and retain the extensive information on parameter estimation, applications, reproducibility, replicability, and advanced topics, like robust estimators and stochastic distances, contained within.

Perfect for undergraduate and graduate students studying remote sensing, data analysis, and statistics, *SAR Image Analysis -- A Computational Statistics Approach* is also an indispensable resource for researchers, practitioners, and professionals seeking a one-stop resource on how to use statistics to extract information from SAR imagery.

OCTOBER 2022 224PP
978-1-119-79529-2 CL \$140.00 (Japan)
Remote Sensing



Learning to Program with MATLAB

Building GUI Tools, 2nd Edition

CRAIG S. LENT

University of Notre Dame

Introductory text integrating science, mathematics, and engineering to give a basic understanding of the fundamentals of computer programming with MATLAB

Learning to Program with MATLAB: Building GUI Tools, Second Edition serves as a compact introduction to computer programming using the MATLAB language, covering elements of both program and graphical user interface (GUI) design to enable readers to create computer programs just like the ones they are accustomed to interacting with. Rather than being encyclopaedic in scope, the goal of the text is to describe what users will find most useful and point to other features. Descriptions and examples of some of the most useful functions are included throughout, particularly with regards to engineering and science applications. The work also includes updated videos and problem solutions on an instructor companion website.

The first edition of *Learning to Program with MATLAB* employed the MATLAB graphical user interface design environment (GUIDE) to develop the GUI tools. The revised second edition is based on the new and improved App Designer program, which has supplanted GUIDE.

Starting with the basics and building up to an emphasis on GUI tools, *Learning to Program with MATLAB* is a comprehensive introductory textbook resource to programming in a robust and multipurpose language, making it an ideal classroom resource for both students and instructors in related programs of study.

OCTOBER 2022 288PP
978-1-119-90047-4 PB \$98.95 (Japan)
COMPUTER ENGINEERING

Image Segmentation

Principles, Techniques, and Applications

TAO LEI & ASOKE K. NANDI

Brunel University London, UK

Summarizes and improves new theory, methods, and applications of current image segmentation approaches, written by leaders in the field

The process of image segmentation divides an image into different regions based on the characteristics of pixels, resulting in a simplified image that can be more efficiently analyzed. Image segmentation has wide applications in numerous fields ranging from industry detection and bio-medicine to intelligent transportation and architecture.

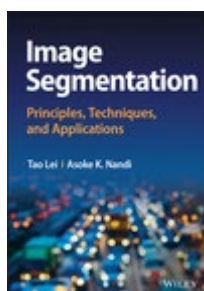


Image Segmentation: Principles, Techniques, and Applications is an up-to-date collection of recent techniques and methods devoted to the field of computer vision. Covering fundamental concepts, new theories and approaches, and a variety of practical applications including medical imaging, remote sensing, fuzzy clustering, and watershed transform. In-depth chapters present innovative methods developed by the authors--such as convolutional neural networks, graph convolutional networks, deformable convolution, and model compression--to assist graduate students and researchers apply and improve image segmentation in their work.

Image Segmentation: Principles, Techniques, and Applications is an essential resource for undergraduate and graduate courses such as image and video processing, computer vision, and digital signal processing, as well as researchers working in computer vision and image analysis looking to improve their techniques and methods.

OCTOBER 2022 368PP
978-1-119-85900-0 CL \$145.00 (Japan)
Image and Video Processing

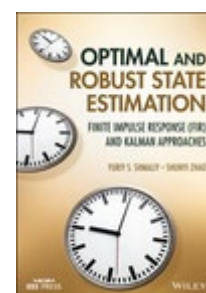
Optimal and Robust State Estimation

Finite Impulse Response (FIR) and Kalman Approaches

YURIY S. SHMALIY & SHUNYI ZHAO

A unified and systematic theoretical framework for solving problems related to finite impulse response (FIR) estimate

Optimal and Robust State Estimation: Finite Impulse Response (FIR) and Kalman Approaches is a comprehensive investigation into batch state estimators and recursive forms. The work begins by introducing the reader to the state estimation approach and provides a brief historical overview. Next, the work discusses the specific properties of finite impulse response (FIR) state estimators. Further chapters give the basics of probability and stochastic processes, discuss the available linear and nonlinear state estimators, deal with optimal FIR filtering, and consider a limited memory batch and recursive algorithms.



Other topics covered include solving the q-lag FIR smoothing problem, introducing the receding horizon (RH) FIR state estimation approach, and developing the theory of FIR state estimation under disturbances. The book closes by discussing the theory of FIR state estimation for uncertain systems and providing several applications where the FIR state estimators are used effectively.

Optimal and Robust State Estimation: Finite Impulse Response (FIR) and Kalman Approaches was written for professionals in the fields of microwave engineering, system engineering, and robotics who wish to move towards solving finite impulse response (FIR) estimate issues in both theoretical and practical applications. Graduate and senior undergraduate students with coursework dealing with state estimation will also be able to use the book to gain a valuable foundation of knowledge and become more adept in their chosen fields of study.

OCTOBER 2022 480PP
978-1-119-86307-6 CL \$150.00 (Japan)
RF / Microwave Theory & Techniques

エネルギー

Acid Gas Injection and Related Technologies

2nd Edition

JOHN J. CARROLL

Gas Liquids Engineering, Ltd.

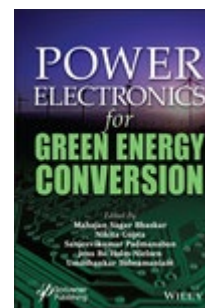
SERIES: ADVANCES IN NATURAL GAS ENGINEERING

OCTOBER 2022 UnknownPP
978-1-119-68688-0 CL \$225.00 (Japan)
NATURAL GAS & PETROLEUM PRODUCTS

Power Electronics for Green Energy Conversion

MAHAJAN SAGAR BHASKAR, NIKITA GUPTA, SANJEEVIKUMAR
PADMANABAN, JENS BO HOLM-NIELSEN & UMASHANKAR
SUBRAMANIAM

Written and edited by a team of renowned experts, this exciting new volume explores the concepts and practical applications of power electronics for green energy conversion, going into great detail with ample examples, for the engineer, scientist, or student.



Power electronics has emerged as one of the most important technologies in the world and will play a big role in the conversion of the present power grid systems into smart grids. Applications like HVDC systems, FACTS devices, uninterruptible power systems, and renewable energy systems totally rely on advances in power electronic devices and control systems. Further, the need for renewable energy continues to grow, and the complete departure of fossil fuels and nuclear energy is not unrealistic thanks to power electronics. Therefore, the increasingly more important role of power electronics in the power sector industry remains paramount.

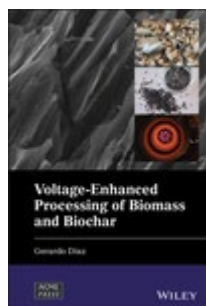
This groundbreaking new volume aims to cover these topics and trends of power electronic converters, bridging the research gap on green energy conversion system architectures, controls, and protection challenges to enable their wide-scale implementation. Covering not only the concepts of all of these topics, the editors and contributors describe real-world implementation of these ideas and how they can be used for practical applications. Whether for the engineer, scientist, researcher, or student, this outstanding contribution to the science is a must-have for any library.

OCTOBER 2022 640PP
978-1-119-78648-1 CL \$249.00 (Japan)
Renewable Energy

Voltage-Enhanced Processing of Biomass and Biochar

GERARDO DIAZ

While there are many well-established biomass processing techniques that are suitable for a variety of different situations, the utilization of voltage-driven techniques for the processing of biomass and biochar has been shown to have advantages for certain applications. Specifically, the field of thermal plasma gasification--where plasma provides the conversion energy--is relied upon in certain commercial equipment that is already available on the market. Crucially, however, the field of non-thermal plasma pyrolysis and gasification--chemical reactions are intensified by the presence of the plasma discharge--is still a developing subject with a great scope for innovation in research and development.



A timely book considering its potential applications in a greener market, *Voltage-Enhanced Processing of Biomass and Biochar* helpfully provides a detailed description of voltage-enhanced processing of carbonaceous materials. The book explains aspects of this processing method in thermal and non-thermal plasmas, as well as describing the effects of Joule heating as part of the temperature distribution and conversion rate. In many ways, this book presents a detailed description of different processes and plasma discharges currently available, with the provision of experimental and simulation results gathered over years of research and development. It also, importantly, offers many methods by which we can be environmentally friendly when working with biomass and biochar

Voltage-Enhanced Processing of Biomass is a useful reference for researchers and practitioners working on applications of plasma for the conversion of biomass and biochar, as well as graduate students studying mechanical, electrical, and chemical engineering.

SERIES: WILEY-ASME PRESS SERIES

OCTOBER 2022 225PP
978-1-119-73973-9 CL \$130.00 (Japan)
Renewable Energy

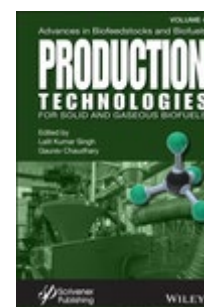
Advances in Biofeedstocks and Biofuels, Volume 4 Production Technologies for Solid and Gaseous Biofuels

Volume 4

EDITOR LALIT KUMAR SINGH & EDITOR GAURAV CHAUDHARY

Harcourt Butler Technical University (Formerly Harcourt Butler Technological Institute); Institute of Engineering & Technology, Mangalayatan University

Biofuel production is one of the most extensively studied recent fields of innovation that can provide the world an alternative energy source. Biomass-based fuel production, or renewable fuels, are becoming increasingly important as a remedy for the increasing greenhouse effect, depleting oil reserves, and rising oil prices. Therefore, research on the production of various biofuels is gaining very much importance among scientists and researchers all over the globe.



The book, *Production Technologies for Solid and Gaseous Biofuels*, is the fourth volume of the book series entitled "Advances in Biofeedstocks and Biofuels." The first volume, *Biofeedstocks and Their Processing*, covered the aspects of biofeedstocks and their suitability as an alternative energy source. The second volume, *Production Technologies for Biofuels*, covered all the latest technologies in biofuels production. The third volume, *Liquid Biofuel Production*, focused on the latest technologies involved in the production of liquid biofuels, such as bioethanol, biodiesel, biobutanol, and others.

This fourth volume, *Production Technologies for Solid and Gaseous Biofuels*, covers all of the latest technologies in the field of solid biofuels, like biochar, briquettes from biomass, as well as gaseous biofuels like biogas, biohydrogen, and more. Various aspects of utilization of waste biomass for the production of solid and gaseous biofuels are also discussed. This book presents the state of the art in solid and gaseous biofuel production, a must have for any engineer or scientist working in this field.

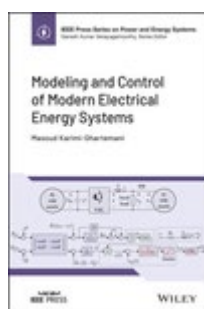
OCTOBER 2022 400PP
978-1-119-78582-8 CL \$225.00 (Japan)
Bioenergy

Modeling and Control of Modern Electrical Energy Systems

MASOUD KARIMI-GHARTEMANI

A step-by-step approach to the modeling, analysis, and control of modern electronically controlled energy systems

In *Modeling and Electronic Control of Modern Electrical Energy Systems*, distinguished researcher Dr. Masoud Karimi-Ghartemani delivers a comprehensive discussion of distributed and renewable energy resource integration from a control system perspective. The book explores various practical aspects of these systems, including the power extraction control of renewable resources and size selection of short-term storage components.



The interactions of distributed energy resources (DERs) with the rest of the electric power system are presented, as is a discussion of the ability of the DER to ride through grid voltage faults and frequency swings. Readers will also discover how to derive mathematical models of different types of energy systems and build simulation models for those systems.

Perfect for researchers, practitioners, and professors with an interest in electronically interfaced modern energy systems, *Modeling and Electronic Control of Modern Electrical Energy Systems* will also earn a place in the libraries of senior undergraduate and graduate students of electrical engineering.

SERIES: IEEE PRESS SERIES ON POWER AND ENERGY SYSTEMS

OCTOBER 2022 UnknownPP
978-1-119-88341-8 CL \$135.00 (Japan)
Electric Power Systems

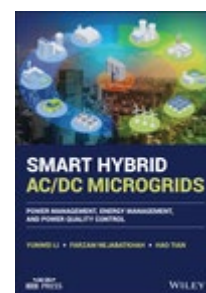
Smart Hybrid AC/DC Microgrids

Power Management, Energy Management, and Power Quality Control

YUNWEI (RYAN) LI, FARZAM NEJABATKHAH & HAO TIAN

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

Hybrid AC/DC Microgrids: Power Management, Energy Management, and Power Quality Control provides comprehensive coverage of interconnected smart hybrid microgrids, their different structures, and the technical issues associated with their control and implementation in the next generation of smart grids. This authoritative single-volume resource addresses smart hybrid microgrids' power management, energy management, communications, power converter control, power quality, renewable generation integration, energy storage, and more.



The book contains both basic and advanced technical information about smart hybrid AC/DC microgrids, featuring a detailed discussion of microgrid structures, communication technologies, and various configurations of interfacing power converters and control strategies. Numerous case studies highlight effective solutions for critical issues in hybrid microgrid operation, control and power quality compensation throughout the text. Topics include control strategies of renewable energy and energy storage interfacing converters in hybrid microgrids, supervisory control strategies of interfacing power converters for microgrid power management and energy microgrid, and smart interfacing power converters for power quality control.

Smart Hybrid AC/DC Microgrids: Power Management, Energy Management, and Power Quality Control is a valuable source of up-to-date information for senior undergraduate and graduate students as well as academic researchers and industry engineers in the areas of renewable energy, smart grids, microgrids, and power electronics.

SERIES: IEEE PRESS

OCTOBER 2022 450PP
978-1-119-59837-4 CL \$135.00 (Japan)
Smart Grid

地球科学

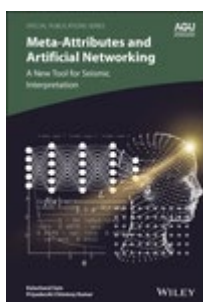
Meta-attributes and Artificial Networking

A New Tool for Seismic Interpretation

KALACHAND SAIN & PRIYADARSHI CHINMOY KUMAR

CSIR-National Geophysical Research Group, Hyderabad, India;

Seismic data gathered on the surface can be used to generate numerous seismic attributes that enable better understanding of subsurface geological structures and stratigraphic features. With an ever-increasing volume of seismic data available, machine learning augments faster data processing and interpretation of complex subsurface geology.



Meta-Attributes and Artificial Networking: A New Tool for Seismic Interpretation explores how artificial neural networks can be used for the automatic interpretation of 2D and 3D seismic data.

Volume highlights include:

- Historic evolution of seismic attributes
- Overview of meta-attributes and how to design them
- Workflows for the computation of meta-attributes from seismic data
- Case studies demonstrating the application of meta-attributes
- Sets of exercises with solutions provided
- Sample data sets available for hands-on exercises

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.

SERIES: SPECIAL PUBLICATIONS

OCTOBER 2022 288PP
978-1-119-48200-0 CL \$165.00 (Japan)
Geology & Geophysics

Igneous Rocks and Processes

A Practical Guide, 2nd Edition

ROBIN GILL & J. G. FITTON

Royal Holloway University of London

A practical introduction to igneous petrology for students and practitioners

The newly revised Second Edition of *Igneous Rocks and Processes: A Practical Guide*, delivers an authoritative introduction to igneous petrology and helps introductory and intermediate students to develop key skills and confidence in identifying igneous materials and in naming and interpreting unknown igneous rocks presented to them. It serves uniquely as both a conventional course text and as a practical laboratory manual.

The authors review igneous nomenclature and subsequently describe specific compositional categories of magmatic rocks. Each chapter covers definitions, mineralogy, eruption and emplacement processes, textures and crystallization processes, geotectonic distribution, geochemistry, and aspects of magma genesis. Additional chapters address phase equilibrium experiments and physical volcanology.

This latest edition offers readers extensively updated chapters, as well as access to a companion website with supplementary material. It also provides:

- Thorough introductions to magmas, magmatic rocks, and magma differentiation
- Exercises for each chapter, with answers provided at the end
- A summary of techniques and optical data for mineral identification using a polarizing microscope
- An introduction to petrographic calculations and an extensive glossary

Perfect for geoscience students taking courses in igneous petrology, *Igneous Rocks and Processes: A Practical Guide*, 2nd edition will also earn a place in the libraries of postgraduate students and researchers in the field.

OCTOBER 2022 496PP
978-1-119-45566-0 PB \$80.00 (Japan)
Igneous & Metamorphic Petrology and Volcanology

ファイナンス／インベストメント

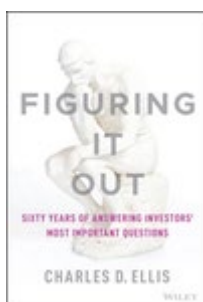
Figuring It Out

Sixty Years of Answering Investors' Most Important Questions

CHARLES D. ELLIS, NEW HAVEN, UNITED STATES

An indispensable collection of essays from one of the investment world's leading lights

In *Figuring It Out: Answers to the Most Difficult Investment Questions*, world-renowned investing and finance guru Charles D. Ellis delivers a robust collection of incisive essays on an array of perennial and contemporary investing issues, from the rise and fall of performance investing to a compilation of essential investing guidelines.



In the book, you'll also find eye-opening discussions of:

- Whether bonds are an appropriate investment vehicle for long-term investors
- The costs of excessive liquidity in the typical portfolio
- The characteristics of successful investment firms, and how to spot them

A can't-miss resource for the everyday retail investor, author Charles Ellis draws on a lifetime of distinguished client service in the financial markets to reward readers with common-sense and accessible advice that deserves to be followed by anyone with an interest in maximizing their investment returns over the long haul.

OCTOBER 2022 352PP
978-1-119-89895-5 CL \$29.95 (Japan)
General Finance & Investments

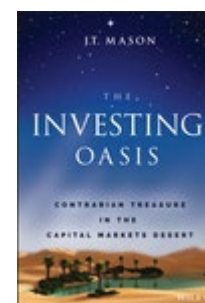
The Investing Oasis

Contrarian Treasures in the Capital Markets Desert

J. T. MASON

A guided journey revealing hidden values and buried treasures amidst the dangers facing DIY investors.

A metaphorical journey through the hot, shifting sands of the capital markets 'desert' to awaken readers to the urgency of the "Behavior Gap"—a chronic gap of under-performance relative to the markets experienced by investors worldwide.



This is a roadmap of portfolio management concepts and contrarian tactics that can turn misbehaviors, undue risks, and short-term gambles into longer-term strengths. Through 30 chapters and four tiers, the author progressively introduces more powerful tools & techniques used in the founding and successful management of the Oasis Growth Fund, a North American Hedge Fund.

No matter the complexities, the material is purposeful, transparent and allows flexibility for the reader to pursue the adventure as long as the rewards justify the sacrifices. With pragmatic advice, insights and tomes for the ages, *The Investing Oasis* is a compelling resource for new and experienced investors, alike.

Value your time at the Oasis to prepare for the adventures ahead.

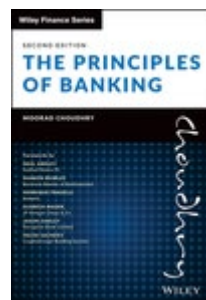
OCTOBER 2022 384PP
978-1-119-87108-8 CL \$27.95 (Japan)
General Finance & Investments

The Principles of Banking

2nd Edition

MOORAD CHOUDHRY, UNITED KINGDOM

In the newly revised Second Edition of *The Principles of Banking*, Professor Moorad Choudhry delivers a comprehensive overview of the fundamentals of banking designed to offer senior management and regulators a roadmap toward a more sustainable business model for their banks. The book builds on the author's experience as a practitioner in commercial and investment banking over many years, and this makes it suitable for both academic and professional audiences.



The author explains the original principles of banking, including the need for sound lending policy, capital management and liquidity risk management, and why these need to be maintained robustly to ensure the industry avoids another banking crisis during the next economic recession. Readers can access a wide range of downloadable ancillary materials, including policy templates, spreadsheet models, risk metric dashboards, and PowerPoint slides.

Perfect for bank practitioners, including managers in retail and commercial banking, ALCO members, treasury professionals, all C-suite executives and board non-executive directors, *The Principles of Banking* is an indispensable resource for all professionals and students seeking an authoritative and practical guide to the foundations of modern banking and good banking practice.

SERIES: WILEY FINANCE

OCTOBER 2022 896PP
978-1-119-75564-7 PB \$95.00 (Japan)
MONEY & BANKING

Financial Statement Analysis Workbook

A Practitioner's Guide, 5th Edition

MARTIN S. FRIDSON & FERNANDO ALVAREZ

Merrill Lynch; Berkeley Center, Stern NYU

The helpful workbook to help practice assessing financial statements

Financial statement analysis is essential as part of any well-organized financial portfolio. As a companion piece, *Financial Statement Analysis Workbook: A Practitioner's Guide* allows readers the opportunity to test and hone the skills put forward in Martin Fridson and Fernando Alvarez's *Financial Statement Analysis*, a resource devoted to providing the analytical framework necessary to make sense of the sometimes misleading numbers put forth by companies. Scrutinizing financial statements allows one to, for example, evaluate a company's stock price or determine merger or acquisition valuations.



The *Financial Statement Analysis Workbook*, then, provides a pathway to become familiar with these methodologies in order to be prepared to use them in real-world scenarios. With the skills provided within, you can begin to undertake goal-oriented preparation for the practical challenges of contemporary business, and feel confident in your financial decision-making. This is aided by:

- Question-and-answer sections within this *Workbook* correspond to each chapter of *Financial Statement Analysis*
- Financial statement and computational exercises designed to require analysis and synthesis of concepts covered in the core text
- A full list of answers in the second half of the book that help explain pitfalls within the questions

An essential tool for professional analysts, investors, and students, *Financial Statement Analysis Workbook* offers the perfect opportunity to help turn theory into reality.

SERIES: WILEY FINANCE

OCTOBER 2022 208PP
978-1-119-45718-3 PB \$29.95 (Japan)
INSTITUTIONAL & CORPORATE FINANCE

Bond Investing For Dummies

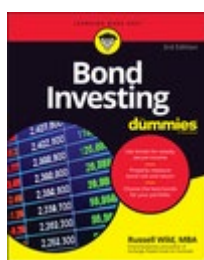
3rd Edition

RUSSELL WILD, PHILADELPHIA, UNITED STATES

Principal, Global Portfolios and NAPFA-certified financial advisor

Everything on bonds, bond funds, and more! Updated for the new economy

Whether you're looking for income, diversification, or protection from stock market volatility, bonds can play an important role in any portfolio. Newly updated, *Bond Investing For Dummies* covers the essentials of getting started and ways to select and purchase bonds for your needs. You'll get up to speed on the different bond varieties and see how to get the best prices when you sell.



We'll help you wrap your mind around bond returns and risk and recognize the major factors that influence bond performance. With easily understandable explanations and examples, you can understand bonds from every angle—yield, credit risk, callability, fund selection, bond broker-dealers, web portals, and beyond. This is the expert information and advice you need to invest in bonds in today's environment. Learn what bonds are and how you can use them to strengthen and protect your portfolio

- Understand how interest rates and other shifting sands affect bond investing
- Minimize your risk and maximize your returns with proven advice from an expert financial advisor
- Use online investing and apps to buy bonds and bond funds with confidence and ease

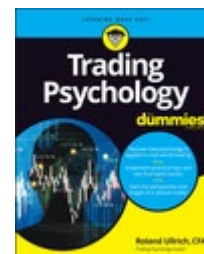
Novice and experienced investors alike will love this quick-and-easy approach to bond investing.

OCTOBER 2022 UnknownPP
978-1-119-89478-0 PB \$29.99 (Japan)
PERSONAL FINANCE

Trading Psychology For Dummies

ROLAND ULLRICH

Keep your head in the game! Make smarter, confident trades in global markets



Trading is 80% psychology and 20% methodology. *Trading Psychology For Dummies* helps you develop the mindset you need to respond correctly in any market condition. Make more money on your trades as you develop mental strength, act confidently, and avoid the typical mistakes traders make when they don't understand their own minds. This book is for traders with any portfolio size and any risk tolerance. With the clear and easy approach that has made Dummies investing books so wildly popular, you can take your trading skills to the next level. When you stop underestimating how much your psychology governs your returns, you'll discover ways to tweak your own thought process for better trading results.

- Learn how human psychology influences decision making in financial markets and other areas of life
- Discover advice and techniques that you can try right away to make more rational trades
- Examine how institutional investors account for market psychology when they predict price movements
- Earn better returns with the perspective of veteran traders who apply psychology-based techniques daily

Trading Psychology For Dummies gives an edge to novice and experienced traders alike. Gain confidence and maintain a flexible and open mind when trading.

OCTOBER 2022 UnknownPP
978-1-119-87958-9 PB \$29.99 (Japan)
Trading

食品科学

The Chemistry of Beer

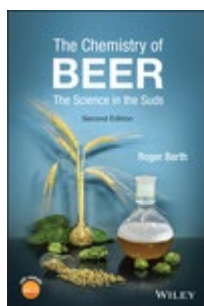
The Science in the Suds, 2nd Edition

ROGER BARTH

West Chester University, PA

An Engaging Introduction to Chemistry with a Popular Theme

From the earliest civilizations to our own day, brewing beer has driven science and technology. In ancient times, brewing was the most advanced biotechnical process. In the modern world, the study of alcoholic fermentation was the springboard for the new science of biochemistry. *The Chemistry of Beer: The Science in the Suds, 2nd Edition* explains the scientific basis of each brewing step as we understand it today.



Readers of this second edition will find:

- Updates and revisions include a new chapter on beer-related products such as hard seltzer, flavored malt beverages, and non-alcoholic beer
- Streamlined language and structure to help clarify the chemistry
- Over 200 illustrations, now in full color throughout
- Complete glossary and index
- Question sets at the end of each chapter to check for understanding
- Online solutions manual on a companion website for professors

The Chemistry of Beer: The Science in the Suds, 2nd Edition is designed to engage students in an introductory chemistry course. Optional material extends the level to make it a useful supplement for a brewing science course. The material and style of presentation will interest brewing professionals, others in the beverage industry, advanced homebrewers, and beer enthusiasts.

OCTOBER 2022 368PP
978-1-119-78333-6 PB \$49.95 (Japan)
FERMENTED FOODS & BEVERAGES

Homebrewing For Dummies

3rd Edition

MARTY NACHEL

Get hoppin' with this guide to microbrewing your own beer

Thinking of brewing your own beer or want to know how it's done? *Homebrewing For Dummies* is for you. If you're ready to take a crack at making your own brew, you'll need this guide to the supplies, ingredients, and process of crafting the perfect beer. Follow our recipes for lager, porter, stout, and other brew types—or invent your own. When you've tasted your perfect creation (and after the hangover wears off), we've got you covered with ideas for entering your beer into homebrewing competitions and selling your beer.



This new edition keeps pace with the exciting world of small-batch beer, introducing you to new flavors and varieties that are popular on the microbrew circuit. We've also got the details on the latest at-home brewing equipment, software and apps, and resources you can tap (get it?) to make a better beer. Not an IPA person? Not to worry! You can also make your own hard seltzers, flavored malt beverages, and juice drinks with this handy how-to.

- Get recipes and instructions for brewing lagers, porters, and other beers at home
- Enhance the quality of your small-batch brews and make your operations more eco friendly
- Enter homebrewing competitions with your beer, hard seltzer, and malt beverages
- Discover new gadgets, apps, and resources that can make home brewing even easier

Homebrewing For Dummies is for anyone looking for a fun and easy-to-use guide to the exciting, rewarding, and refreshing hobby of beer brewing.

OCTOBER 2022 448PP
978-1-119-89127-7 PB \$24.99 (Japan)
FERMENTED FOODS & BEVERAGES

コンシューマーヘルス

Chair Yoga For Dummies

LARRY PAYNE, LOS ANGELES, UNITED STATES & DON HENRY,
REDONDO BEACH, UNITED STATES

**If you can sit in a chair, you can
enjoy the benefits of yoga!**

Chair Yoga For Dummies is a guide to developing a yoga practice that you can do while seated in a chair. Traditional yoga poses can be replicated as sitting yoga poses and stretches, enjoyable and accessible for people at all levels of experience and mobility. There's a reason yoga has been around for thousands of years. Practicing chair yoga regularly can decrease your blood pressure, anxiety, inflammation, and chronic pain. It also increases flexibility, balance, and strength. And it helps you sleep better, too. All you need to get started is yourself, a chair, and this book--couldn't be simpler.



With this book on your desk, you can infuse a little namaste into your office routine or build a personalized home practice that fits your lifestyle and abilities. You'll learn specific poses to target problem areas, and guidance on creating your own chair yoga workout plan. Practitioners can achieve meditation, flexibility goals, and more.

- Get guidance on creating your own custom chair yoga workout plan
- Reduce stress, get stronger, and feel healthier--without leaving your seat
- Enjoy the benefits of yoga adapted to office workers and those with decreased mobility
- Learn proper technique and alignment from clear illustrations and descriptions

Stay active while seated!

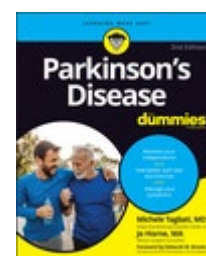
OCTOBER 2022 UnknownPP
978-1-119-88953-3 PB \$24.99 (Japan)
Fitness

Parkinson's Disease For Dummies

2nd Edition

JO HORNE, MILWAUKEE, UNITED STATES & MICHELE TAGLIATI

**Maintain a take-charge attitude and
live your life to the fullest with
Parkinson's**



Whether the diagnosis is yours or that of a loved one, *Parkinson's Disease for Dummies* contains everything you need to know about living with this disease. This book is an easy-to-understand, straightforward, and sometimes humorous guide that offers proven techniques for coping with daily issues, finding the right doctors, and providing care as the disease progresses. This user-friendly guide helps you navigate you through the important steps toward taking charge of your condition. You aren't alone--inside, you'll discover proven coping skills and first-hand advice, along with practical tools that will help you navigate the treatment journey. In classic, compassionate Dummies style, *Parkinson's Disease For Dummies* will answer all your questions, and guide you through the process of finding your own answers as well.

- Keep your mind sharp, stay in shape, and keep your stress under control
- Live a full and satisfying life after a Parkinson's diagnosis
- Get the most current information on Parkinson's medications and treatments
- Learn the best ways to support loved ones living with Parkinson's

With updates on the latest in alternative treatments, dementia, and young onset PD, *Parkinson's Disease for Dummies* is here to show you how you can keep a positive attitude and lead an active, productive life.

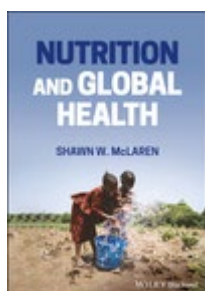
OCTOBER 2022 448PP
978-1-119-89358-5 PB \$24.99 (Japan)
CONSUMER HEALTH SPECIAL TOPICS

公衆衛生

Nutrition and Global Health

SHAWN W. MCLAREN

Nutrition and Global Health began as a series of short literature reviews, since then, the work has become an authoritative and highly accessible resource on the vast and nuanced subject matter covered within. One of the major themes of the work is integrating nutrition into other disciplines: with its basis in biochemistry, human physiology, behavioural science, and even political studies, nutrition is a vital component in the success of interventions.



This book will provide students and practitioners with a roadmap for interpreting the global health landscape and create links between nutritional physiology, policy, and action. Readers will find it easy to develop analytical skills throughout this book, which is based on widely used practices in global health.

Unlike long and complex policy documents which rely on a solid foundation in more basic sciences, *Nutrition and Global Health* is an accessible resource that allows clinicians, policy makers, and planners to better understand the global health landscape and stage better interventions.

OCTOBER 2022 240PP
978-1-119-77982-7 PB \$59.95 (Japan)
Nutrition & Dietetics General

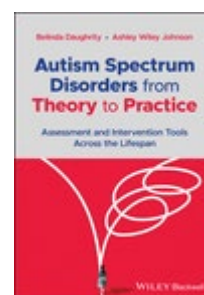
Autism Spectrum Disorders from Theory to Practice

Assessment and Intervention Tools Across the Lifespan

BELINDA DAUGHRITY & ASHLEY WILEY JOHNSON

Apply the latest ASD theory to assessment and intervention in real-world clinical environments

In *Autism Spectrum Disorders from Theory to Practice*, a team of experienced interventionists deliver a practical application of modern theory regarding autism spectrum disorders (ASDs) to common, real-world clinical situations. Hands-on guidance is paired with advice on culturally appropriate and responsive practices informed by professionals who collectively have over 40 years of combined speech pathology experience.



The work of special contributors like Dr. Pamela Wiley, who is the Founder and President of the Los Angeles Speech and Language Therapy Center, appears alongside evidence-based ASD intervention instruction that draws from the latest studies and from the authors' assessments and interventions with clients from a diverse range of backgrounds. When combined with the reader's own professional competence, clinical experiences, and continuing education, this book is a powerful resource that will improve patient outcomes.

Autism Spectrum Disorders from Theory to Practice is a useful reference for new and experienced practitioners in the field of autism research, speech-language pathologists, developmental psychologists, adapted physical education teachers, professors, and those affected by ASD in their everyday life.

OCTOBER 2022 304PP
978-1-119-81956-1 PB \$69.95 (Japan)
Speech Therapy

歴史

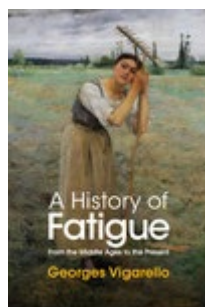
A History of Fatigue

From the Middle Ages to the Present

GEORGES VIGARELLO & TRANSLATED BY NANCY ERBER

University of Paris

READERSHIP: Students of social history, cultural history, European history, history of the body; interested general readers.



OCTOBER 2022 424PP
978-1-5095-4925-2 CL \$35.00 (Japan)
General & Introductory History

インダストリアル・エンジニアリング

Project Management Metrics, KPIs, and Dashboards

A Guide to Measuring and Monitoring Project Performance, 4th Edition

HAROLD KERZNER

Baldwin-Wallace College, Berea, Ohio

With the growth of complex projects, stakeholder involvement, and advancements in visual-based technology, metrics and key performance indicators (KPIs) are important factors in evaluating project performance. Dashboard reporting systems provide accessible project performance data, and sharing this key data in a concise and consistent manner is a very important communication responsibility of all project managers. This 4th Edition of Kerzner's groundbreaking work includes all-new sections on: obtaining feedback on metrics, stakeholder relations management, effective metric measurements, selecting the right project metrics, innovation metrics, agile and much more. The book companion website will include updated PowerPoint decks by chapter and a test bank for use in seminar presentations and project management courses.



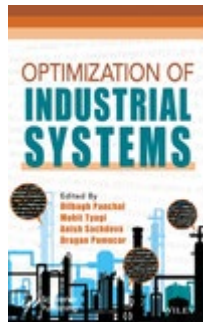
OCTOBER 2022 512PP
978-1-119-85155-4 PB \$80.00 (Japan)
INDUSTRIAL ENGINEERING / PROJECT MANAGEMENT

法律

Optimization of Industrial Systems

EDITOR ANISH SACHDEVA, EDITOR MOHIT TYAGI, EDITOR
DILBAGH PANCHAL & EDITOR DRAGAN PAMUCAR

In order to deal with societal challenges, novel technologies play an important role. For the advancement of technology, it is essential to share innovative ideas and thoughts on a common platform where researchers across the globe meet together and revitalize their knowledge and skills to tackle the challenges which the world faces. High complexity of the issues related to societal interdisciplinary research is the key to future revolutions. From research funders to journal editors, policymakers to think tanks, all seem to agree that the future of research lies outside disciplinary boundaries. In such prevailing conditions, various working scenarios, conditions and strategies need to be optimized. Optimization is a multidisciplinary term, and its essence can be inculcated in any domain of business, research and other associated working dynamics. Globalization provides all-around development, and this development is impossible without technological contributions. This volume's mission is at the core of industrial engineering. All the manuscripts appended in this volume were double-blind peer-reviewed by committee members and the review team, promising high quality research. This book provides deep insights to its readers about the current scenarios and future advancements of industrial engineering in the context of optimum value. Optimization and its applicability in industrial engineering are covered, like selection of designing parameters, decisions related to conditions of optimum process or operation parameters, behavior of response variables, facilities planning and management, transportation and supply chain management, quality engineering, reliability and maintenance, product design and development, human factors and ergonomics, project management, service system and service management, waste management, sustainable manufacturing and operations, systems design and performance measurement. Whether for the veteran engineer or the student, this is a must-have volume for any library.



OCTOBER 2022 624PP
978-1-119-75031-4 CL \$249.00 (Japan)
Industrial Engineering / Quality Control

Crime and Control in China

The Myth of Harmony

BRGE BAKKEN

READERSHIP: upper-level undergraduate students and above and scholars of China Studies, sociology and criminology

SERIES: CHINA TODAY

OCTOBER 2022 256PP
978-0-7456-6317-3 CL \$69.95
978-0-7456-6318-0 PB \$26.95
Criminology



ライフスタイル

Persian Cooking For Dummies

NAJMIEH BATMANGLIJ

Wiley

Taste Real Home-cooked Persian Food for Breakfast, Lunch, and Dinner

The most celebrated Persian chef in America, Najmieh Batmanglij brings you her favorite traditional, healthy Persian dishes, simplified for modern American kitchens. *Persian Cooking For Dummies*, written for cooks of all skill levels will transform the way you cook. Offering more than 100 recipes, some of which can be made in less than an hour, this book will guide you through the art and craft of one of the world's oldest, yet least known culinary traditions in the West. These flavors and aromas are rarely replicated in restaurants, so prepare to be wowed by your own creations as you follow these easy guidelines in the warmth and comfort of your own kitchen. The distinctive herbs, the heavenly aromas of saffron and rose water, and the sweet and sour flavors will impress your guests and delight your family.

- Prepare kababs, braises, golden-crust, tah-dig rice dishes, and delicious desserts
- Learn the tricks and techniques that have been perfected over thousands of years
- Enjoy the unique aromas and flavors of the food of Iran--right in your own home
- Learn the history of Persian cooking and access a glossary of Persian culinary terms
- Many recipes are one page, simple to follow, and take less than an hour to make.

Adapted for today's lifestyle, *Persian Cooking For Dummies* is perfect for experienced and novice cooks alike. Take a journey through this exotic cuisine and get cooking, with Dummies.



Safe Gun Ownership For Dummies

GREG LICKENBROCK, CHAMBLEE, UNITED STATES

A straightforward guide to being smart with your firearm

With gun sales at an all-time high in the U.S., easy-to-understand advice on storing and possessing guns safely is at an all-time premium. *Safe Gun Ownership For Dummies* paves the way for new and novice gun owners to learn the basics of firearm ownership in a non-partisan tone. This book helps gun owners thoroughly explore the rules of gun safety and adopt the habits of savvy firearm aficionados. Written by a firearms expert and analyst who has reviewed hundreds of firearms along with gun safety and storage options, this guide helps you develop a safety mindset and apply practices to assure you and your family avoid harm.

- Learn, internalize, and apply the rules of gun safety
- Understand federal, state, and local gun laws
- Find a good gun safety course for hands-on practice
- Store and transport your firearm securely

When it's time to start training on your new firearm and the safety rules of gun ownership, *Safe Gun Ownership For Dummies* is at the ready with everything you need to know to make safety your aim.



OCTOBER 2022 UnknownPP
978-1-119-89484-1 PB \$24.99 (Japan)
Sports

OCTOBER 2022 UnknownPP
978-1-119-87574-1 PB \$24.99 (Japan)
Cooking

ライフサイエンス

Sailing For Dummies

3rd Edition

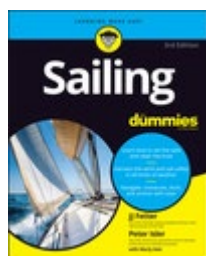
PETER ISLER, SAN DIEGO, UNITED STATES, J. J. FETTER, LA JOLLA, UNITED STATES & WITH MARLY ISLER

Buoy your sailing knowhow with advice from two US sailing champions

Nothing can beat the feel of the warm sun on your back, the gentle wind in your hair, and a swaying deck under your feet. If you long to take to the open water and sail wherever the wind takes you, you'll find everything you need to know in *Sailing For Dummies*. This friendly guide offers information for beginning and intermediate captains. Discover everything you need to know to confidently navigate your vessel through whatever waters--rough or smooth--you may encounter. Whether your goal is to explore a nearby lake, sail down the Mighty Mississippi, or take to the open sea, *Sailing For Dummies* explains how to launch your vessel, tie knots, turn sails, read the water, and more.

- Figure out how to work with the wind using sails to reach your destination
- Find out how the latest technology makes sailing easier and more enjoyable
- Master the essential skills of docking, tying knots, and dropping anchor
- Learn how to read the wind, sea, and sky to know what the weather is up to
- Choose the boat that's right for you, complete with bells and whistles
- Discover the basics of windsurfing and kiteboarding
- Satisfy your need to go farther and faster in your craft
- Know how to sail safely in tricky situations

Whether you're dipping your toe in the water or knee deep in your pursuit of sailing excellence, this reference will come in handy as you set your sights on sailing. After spending some time with *Sailing For Dummies*--and even more time on the water--you'll know the ropes!

**Estuarine Ecology**

3rd Edition

BYRON C. CRUMP, JEREMY M. TESTA & KENNETH H. DUNTON

A detailed and accessible exploration of the fundamentals and the latest advances in estuarine ecology

In the newly revised third edition of *Estuarine Ecology*, a team of distinguished ecologists presents the current knowledge in estuarine ecology with particular emphasis on recent trends and advances.

The book is accessible to undergraduate students while also providing a welcome summary of up-to-date content for a more advanced readership.

This latest edition is optimized for classroom use, with a more intuitive mode of presentation that takes into account feedback from the previous edition's readers. Review questions and exercises have been added for all chapters that greatly assist in the learning and retention of the complex concepts discussed here.

Estuarine Ecology remains the gold standard for the discipline by taking stock of the dramatic technological and scientific breakthroughs made in the field since the last edition was written. Perfect for students of estuarine ecology and management, environmental science, geomorphology, fisheries science, oceanography, and natural resource management, *Estuarine Ecology* will also earn a place in the libraries of professionals, government employees, and consultants working on estuary and wetlands management and conservation.



OCTOBER 2022 496PP
978-1-119-53465-5 CL \$119.95 (Japan)
AQUATIC ECOLOGY

OCTOBER 2022 448PP
978-1-119-86723-4 PB \$24.99 (Japan)
SAILING

The Human Lineage

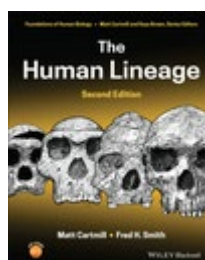
2nd Edition

MATT CARTMILL & FRED H. SMITH

Boston University; Illinois State University

The newly revised and thoroughly updated standard source for mastering the human fossil record.

This new edition of *The Human Lineage* is the best and most current guide to the morphological, geological, paleontological, and archeological evidence for the story of human evolution. This comprehensive textbook presents the history, methods, and issues of paleoanthropology through detailed analyses of the major fossils of interest to practicing scientists in the field. It will help both advanced students and practicing professionals to become involved with the lively scholarly debates that mark the field of human-origins research. Its clear and engaging chapters contain concise explanatory text and hundreds of high-quality illustrations. This thoroughly revised second edition reflects the most recent fossil discoveries and scientific analyses, offering new sections on the locomotor adaptations of Miocene hominoids, the taxonomic distinctiveness of *Homo heidelbergensis*, the Butele foot, *Ardipithecus*, and Neandertal genomics. Updated and expanded chapters offer fresh insights on topics such as the origins of bipedality and the anatomy and evolution of early mammals and primates.



Covering the entire story of human evolution from its Precambrian beginnings to the emergence of modern humanity, *The Human Lineage* is indispensable reading for all advanced students of biological anthropology.

SERIES: FOUNDATION OF HUMAN BIOLOGY

OCTOBER 2022 640PP
978-1-119-08670-3 CL \$145.00 (Japan)
HUMAN EVOLUTION

Unravelling Long COVID

DON GOLDENBERG & MARC DICHTER

An authoritative medical reference on the various ways in which Long-COVID presents and an in-depth discussion of its mechanisms and therapeutic options.



Unravelling Long-COVID aims to provide a better awareness and understanding of the persistent health problems that can arise following SARS-CoV-2 infection. Various described as Long-COVID, Long-Haulers' Syndrome, and Post-Acute Sequelae of SARS-CoV-2, this newly-designated disorder is estimated to have affected somewhere between 50 to 250 million people. It is in fact considered by many as the next global public health disaster.

With such a broad and important topic, the authors of *Unravelling Long-COVID* have focused primarily on two major problems in the current understanding of Long-COVID: 1.) the failure to distinguish patients with organ damage--here called Long-COVID Disease -- and those with unexplained, persistent symptoms--what is termed Long-COVID syndrome, 2.) and the failure of current medical approaches to comprehend and treat those persistent unexplained symptoms

Unravelling Long-COVID is:

- One of the first books focused specifically on defining and understanding Long-COVID with the goal of establishing optimal management
- A unique reference to distinguish patients with organ damage caused by Long-COVID disease from those with unexplained, persistent symptoms that manifest as Long-COVID syndrome
- An in-depth exploration of neuroimmune pathways to help clarify the previously unexplained symptoms of Long-COVID

Unravelling Long-COVID is an essential reference for anyone interested in Long-COVID and the impact that this condition has had on the population. It will be a useful resource for the growing number of Long-COVID clinics that have been established across the US, the UK, and other countries.

OCTOBER 2022 256PP
978-1-119-89130-7 CL \$130.00 (Japan)
Microbiology & Virology

Ethylene in Plant Biology

EDITOR SAMIKSHA SINGH, EDITOR TAJAMMUL HUSAIN, EDITOR VIJAY PRATAP SINGH, EDITOR DURGESH K. TRIPATHI, EDITOR SHEO MOHAN PRASAD & EDITOR NAWAL KISHORE DUBEY

Motilal Nehru National Institute of Tech

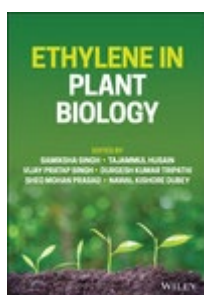
Comprehensive resource detailing the role of ethylene in plant development regulation, gene regulation, root development, stress tolerance, and more

Ethylene in Plant Biology presents ethylene research from leading laboratories around the globe to allow readers to gain strong foundational coverage of the topic and aid in further ethylene research as it pertains to plant biology. The work covers general ideas as well as more specific and technical knowledge, detailing the overall role of ethylene in plant biology as a gaseous plant hormone that has emerged as an important signaling molecule which regulates several steps of a plant's life cycle. The ideas covered in the work range from discovery of ethylene, to its wide roles in plant growth and development, all the way to niche topics such as stress acclimation.

Written by highly qualified authors in fields directly related to plant biology and research, the work is divided into 20 chapters, with each chapter covering a specific facet of ethylene or the interaction between ethylene and plant health.

For biologists, scientists, researchers, and policy makers in the agriculture and pharmaceutical industries, *Ethylene in Plant Biology* is a key resource to understand the state of the art in the field and establish a foundation of knowledge that can power future research efforts and practical applications.

OCTOBER 2022 464PP
978-1-119-74468-9 CL \$210.00 (Japan)
Plant Physiology



Fugitive, Where Are You Running?

DNTEM TOUAM BONA & TRANSLATED BY LAURA HENGHOLD

READERSHIP: Students and scholars in decolonial and postcolonial studies, African Studies, Latin American studies, literary studies and the humanities generally



SERIES: CRITICAL SOUTH

OCTOBER 2022 230PP
978-1-5095-5184-2 CL \$64.95 (Japan)
978-1-5095-5185-9 PB \$22.95 (Japan)
Postcolonial Theory

数学

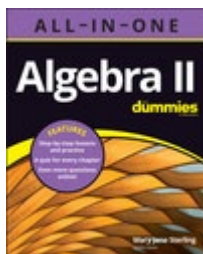
Algebra II All-In-One For Dummies

MARY JANE STERLING, PEORIA, UNITED STATES

Bradley University, Peoria, IL

Every intermediate algebra lesson, example, and practice problem you need in a single, easy-to-use reference

Algebra II can be a tough nut to crack when you first meet it. But with the right tools...well, she's still tough but she gets a heckuva lot easier to manage. In *Algebra II All-in-One For Dummies* you'll find your very own step-by-step roadmap to solving even the most challenging Algebra II problems, from conics and systems of equations to exponential and logarithmic functions.



In the book, you'll discover the ins and outs of function transformation and evaluation, work out your brain with complex and imaginary numbers, and apply formulas from statistics and probability theory. You'll also find:

- Accessible and practical lessons and practice for second year high-school or university algebra students
- End-of-chapter quizzes that help you learn -- and remember! -- key algebraic concepts, such as quadratic equations, graphing techniques, and matrices
- One-year access to additional chapter quizzes online, where you can track your progress and get real-time feedback!

Your own personal mathematical toolbox for some of the most useful and foundational math you'll learn in school, this *Algebra II All-in-One For Dummies* combines hands-on techniques, methods, and strategies from a variety of sources into one, can't-miss reference. You'll get the insights, formulas, and practice you need, all in a single book (with additional quizzes online!) that's ideal for students and lifelong learners alike!

OCTOBER 2022 640PP
978-1-119-89626-5 PB \$39.99 (Japan)
Algebra

メディカル・サイエンス

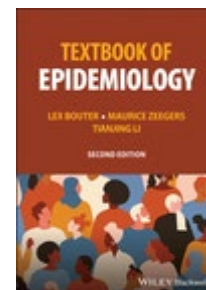
Textbook of Epidemiology

2nd Edition

LEX BOUTER, MAURICE ZEEGERS & TINJING LEE

The gold standard in epidemiological texts

In the second edition of *Textbook of Epidemiology*, a distinguished team of researchers deliver an extensively updated and comprehensive exploration of epidemiological methods, illuminating the tools for studying the distribution and risk factors of health states and events in populations.



- An introduction to epidemiological methods with recent and broadly applicable examples
- End-of-chapter self-assessment questions for readers to check their understanding of key concepts, with answer keys and further enrichment materials available on a companion website
- A brand-new chapter covering methods for systematic reviews and meta-analysis
- Accessible material appropriate for clinical practitioners and researchers from around the world

Perfect for professionals working in clinical medicine and public health, *Textbook of Epidemiology* will also earn a place in the libraries of allied health professionals seeking a one-stop resource or to re-immers themselves in specific methodological topics and practices.

OCTOBER 2022 256PP
978-1-119-77602-4 PB \$60.00 (Japan)
Medical Statistics & Epidemiology

Complications of Pain-Relieving Procedures

An Illustrated Guide

SERDAR ERDINE & PETER STAATS

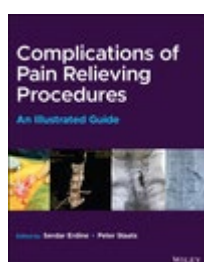
Professor of Anesthesiology and Algology, Istanbul Pain Center, Istanbul, Turkey

A comprehensive exploration of potential complications arising from interventional pain therapies.

In *Complications of Pain-Relieving Procedures: An Illustrated Guide*, a team of distinguished pain specialists delivers a straightforward, extensively illustrated, and step-by-step guide to managing complications arising out of pain-relieving procedures and interventions. The book offers essential assistance to physicians by combining a wide range of potential complications into a single, comprehensive resource suited to quick review in real time. It will help readers determine the clinical steps necessary to avoid long-term consequences for patients.

This illustrated reference contains numerous images of the possible complications of specific procedures. Each chapter includes discussions of the anatomy of the target nerve, plexus or space, indications for the procedure, technical approaches with pictures, potential complications, and strategies for preventing complications. Finally, every chapter offers case reports describing adverse events and how they were dealt with.

Perfect for interventional pain physicians, *Complications of Pain-Relieving Procedures: An Illustrated Guide* will also earn a place in the libraries of pain physicians, neurosurgeons, neurologists, physiatrists, and anesthesiologists.



OCTOBER 2022 448PP
978-1-119-75727-6 CL \$199.99 (Japan)
Pain Medicine

ABC of Major Trauma

Rescue, Resuscitation with Imaging, and Rehabilitation, 5th Edition

EDITOR PETER A. DRISCOLL, EDITOR DAVID V. SKINNER & EDITOR PETER N. GOODE

Hope Hospital, Salford, UK; John Radcliffe Hospital, Oxford, UK

In the newly revised, and substantially expanded, Fifth Edition of *ABC of Major Trauma*, an eminent team of leading trauma specialists delivers a comprehensive, up-to-date, referenced overview of the emergency treatment of patients suffering from major trauma.



Covering all aspects of the management of multiply injured patients during the initial, crucial hours after injury, the scope of the book has developed to include imaging appendices for many chapters. The editors have included resources that discuss general considerations for typical trauma cases, as well as the numerous atypical patients including children, the elderly and those who are pregnant. Hyperlinks are now also included throughout the book which enable the reader to refer to continuously updated guidelines.

ABC of Major Trauma also includes a new companion website containing further resources, including the addition of a CT primary survey video that guides the reader through the interpretation of the trauma CT that is frequently used during the early period of arrival in hospital. An ultrasound resource has also been included on the website, demonstrating common trauma conditions with comparable normal scans.

Perfect for all those involved in the care of the trauma patient, including nurses, physician associates, hospital doctors, paramedics and pre-hospital teams, the *ABC of Major Trauma* is a one-stop referenced guide to the care of such patients from the site of injury to maximal recovery.

SERIES: ABC SERIES

OCTOBER 2022 512PP 978-1-119-49885-8 PB \$55.99 (Japan)
EMERGENCY MEDICINE & TRAUMA

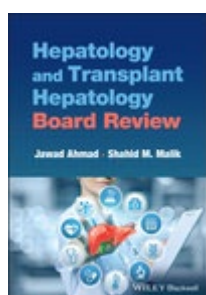
Hepatology and Transplant Hepatology Board Review

JAWAD AHMAD & SHAHID MALIK

Icahn School of Medicine at Mount Sinai, New York, NY, USA;
University of Pittsburgh

A unique, must-have study aid for the hepatology boards

In *Hepatology and Transplant Hepatology: Board Review with Multiple Choice Questions*, two experienced hepatologists deliver a practical and hands-on resource ideal for trainees seeking board certification in hepatology. The only board-specific study aid on the market today, this book covers all the areas tested on the exam: pre-transplant, peri-operative, post-transplant and transplant immunology.



This indispensable study aid also includes:

- Questions based on real cases experienced by the authors
- Original images, pathology slides and cholangiograms
- Questions and answers based on up-to-date management guidelines from the main liver societies
- Brief topic overviews following each question, as well as "Pearls" and "Must-Know Facts" sections scattered throughout the book

Perfect for medical professionals studying and preparing for the hepatology boards, *Hepatology and Transplant Hepatology: Board Review with Multiple Choice Questions* is also an indispensable resource for practicing gastroenterologists and hepatologists seeking to refresh their knowledge and test their proficiency in foundational and advanced hepatology topics.

OCTOBER 2022 500PP
978-1-119-85351-0 PB \$99.99 (Japan)
Hepatology

Coronavirus Disease 2019 (Covid-19)

A Clinical Guide

EDITOR ALI GHOLAMREZANEZHAD

Provides comprehensive coverage of all key aspects of COVID-19, including: etiology, diagnosis, symptomatology, management, and treatment



Coronavirus Disease 2019 (COVID-19): A Clinical Guide provides healthcare professionals at all levels with up-to-date knowledge about the clinical, epidemiological, genomic, virological, and radiologic features of COVID-19. Consolidating multiple systematic reviews and meta-analyses into a single volume, this comprehensive textbook also addresses health policies, mass casualty planning, healthcare worker safety, economic impact, lessons for future outbreaks, and other para-clinical and social aspects of the of the COVID-19 pandemic.

The text presents a thorough summary and critical analysis of COVID-19 based on an exhaustive review of recently published literature and data. Topics include the virologic characteristics of SARS-CoV-2, pulmonary and extrapulmonary manifestations and consequences of COVID-19, prevention and transmission control, the pandemic's indirect impact to the care and management of other diseases, passive immunotherapy and its implications, diagnostic and treatment approaches for critically ill patients, and more.

Coronavirus Disease 2019 (COVID-19): A Clinical Guide is an indispensable source of information for all clinicians, researchers, epidemiologists, nurses, radiologists, and healthcare managers working to address any aspect of the COVID-19 pandemic.

OCTOBER 2022 688PP
978-1-119-78968-0 CL \$130.00 (Japan)
Infectious Disease

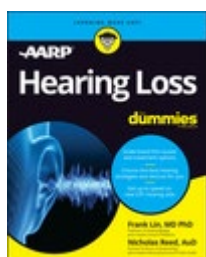
Hearing Loss For Dummies

FRANK LIN & NICHOLAS REED

Improve your hearing, enhance your life

With new advice on just-released over-the-counter hearing aids

Hearing loss can be frustrating, but in fact it's common and treatable. *Hearing Loss For Dummies*, written by top experts in the field in collaboration with AARP, walks you through how to get the help you need to clearly hear the sounds of life—whether you're at home, at work, or out and about. And hearing health is critical: Hearing loss can increase your risk of falls and injuries, isolation and depression, and even cognitive decline and dementia.



Authors Frank Lin and Nicholas Reed at the Johns Hopkins School of Medicine lay out the steps to hearing health:

- Understanding how hearing works—and how it changes as we age
- Finding specialists you can trust
- Determining whether you need testing and, if so, where to turn
- Learning practical solutions for hearing better at home, at work, on the phone, and in restaurants and theaters
- Choosing the right hearing aid, including just-approved over-the-counter hearing aids, and getting them adjusted to work for you
- Exploring the pros and cons of cochlear implants and other surgical options
- Covering the costs of hearing health care

If you're concerned about your own or a friend or relative's hearing, this is the one book you'll need. For what can seem like a complicated, stressful and lengthy process, *Hearing Loss For Dummies* tackles the topic head-on and provides you with expert guidance to put your mind at ease on the path to better hearing.

OCTOBER 2022 UnknownPP
978-1-119-88057-8 PB \$24.99 (Japan)
Otolaryngology (Ear, Nose & Throat)

Clinical Genetics and Genomics at a Glance

NEETA LAKHANI, KUNAL KULKARNI, JULIAN BARWELL,
PRADEEP VASUDEVAN & HUW DORKINS

Junior Doctor, Oxford Deanery, UK

Clinical Genetics and Genomics at a Glance combines the clinical and scientific facets of a complex subject in a way that is both accessible and succinct to facilitate the diagnosis, treatment, and management of common genetic conditions.



Using the popular "at a Glance" format, this book enables the reader to gain a solid understanding of the practical applications of clinical genetics in different systems. Covering a wide range of topics, this book is perfect for an introduction on the subject texts or for revision purposes and are useful throughout medical school and beyond.

Clinical Genetics and Genomics at a Glance uses a systemic approach following all the systems in the body:

- General topics such as inheritance, cytogenetic and molecular genetic techniques, how to read a genetic test report, and genetic counselling
- Chapters on key conditions with a genetic basis, organised by body systems, for example:
- Cardiology topics such as congenital heart disease, ischaemic heart disease, cardiomyopathies, arrhythmias, and sudden cardiac death
- Dermatology topics such as tuberous sclerosis, Gorlin syndrome, Darier disease, lamellar ichthyosis, mal de meleda, cutaneous porphyria, and epidermolysis bullosa

Clinical Genetics and Genomics at a Glance is a helpful learning aid that can be used at various stages of medical training to gain an understanding of the aspects of clinical genetics and the fundamentals behind the specialty. The text also functions as a useful on-ward reference tool for practitioners of all experience levels.

SERIES: AT A GLANCE

OCTOBER 2022 180PP
978-1-119-24095-2 PB \$44.95 (Japan)
Medical Education

機械工学

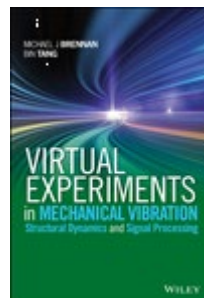
Virtual Experiments in Mechanical Vibrations

Structural Dynamics and Signal Processing

MICHAEL J. BRENNAN & BIN TANG

Southampton University, UK

Explains fundamental concepts in vibrations and signal processing by way of virtual experiments using MATLAB



Virtual Experiments in Mechanical Vibrations: Structural Dynamics and Signal Processing brings together

topics in mechanical vibration and signal processing under the umbrella of virtual experiments in vibration. In order for the reader to be able to conduct some virtual experiments on vibration isolators, vibration absorbers, and distributed parameter structures, such as beams and rods, a thorough grounding is provided in vibrations and signal processing.

Key features:

- Applies a physics based approach to the study of vibrations and signal processing.
- Presents computational virtual experiments using MATLAB examples.
- Covers fundamental concepts in vibrations and signal processing.
- Describes typical vibration testing set-ups and the concept of the virtual experiment.
- Enables the reader to conduct virtual experiments on vibration isolators, vibration absorbers, and distributed parameters in structures such as beams and rods.

Virtual Experiments in Mechanical Vibrations: Structural Dynamics and Signal Processing is the ideal book for a student, researcher or mechanical engineer who is new to the subjects of vibrations, signal processing and vibration testing.

OCTOBER 2022 320PP
978-1-118-30797-7 CL \$130.00 (Japan)
Solid Mechanics

Theory of Ground Vehicles

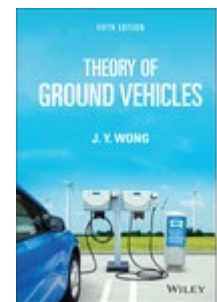
5th Edition

J. Y. WONG

Carleton University, Ontario

A leading and authoritative text for advancing ground vehicle mobility

Theory of Ground Vehicles, Fifth Edition presents updated and expanded coverage of the critical factors affecting the performance, handling, and ride essential to the development and design of road and off-road vehicles.



Replacing internal combustion engines with zero-emission powerplants in ground vehicles to eliminate greenhouse gas emissions for curbing climate change has received worldwide attention by both the vehicle industry and governmental agencies. To enhance safety, traffic flow, and operating efficiency of road transport, automated driving systems have been under active development. With growing interest in the exploration of the Moon, Mars, and beyond, research in terramechanics for guiding the development of extraterrestrial rovers has been intensified.

An updated and comprehensive text and reference for both the educational and professional communities, *Theory of Ground Vehicles, Fifth Edition* will prove invaluable to aspiring and practicing engineers seeking to solve real-world road and off-road vehicle mobility problems.

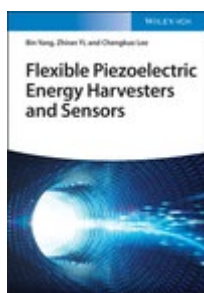
OCTOBER 2022 608PP
978-1-119-71970-0 CL \$150.00 (Japan)
AUTOMOTIVE ENGINEERING

材料科学

Flexible Piezoelectric Energy Harvesters and Sensors

BIN YANG, ZHIRAN YI & CHENGKUO LEE

This book covers the detailed knowledge of the fundamentals, developments discussions in the design and fabrication of energy harvesting, sensing and their corresponding applications.



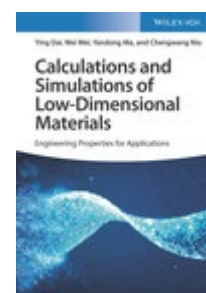
OCTOBER 2022 304PP
978-3-527-34934-0 CL \$165.00 (Japan)
Electronic Materials

Calculations and Simulations of Low-Dimensional Materials

Engineering Properties for Applications

YING DAI, WEI WEI, YANDONG MA & CHENGWANG NIU

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



Two-dimensional materials are those, such as graphene and 2D oxides, whose thickness is so small as to approach the atomic scale. Potential applications for these materials exist in an enormous range of scientific and industrial fields. A previous era of low-dimensional materials focused on direct experimentation to demonstrate the properties, reactions, and potential applications of these materials; however, in recent years, calculation and simulation have been shown to have considerable predictive power, reducing the period between design and deployment of these potentially critical materials.

Calculations and Simulations of Low-Dimensional Materials offers the first comprehensive survey of this exciting new approach to low-dimensional materials. It guides readers through the foundational physics and through a range of calculation and simulation methods, each with different predictive capacities. Mastery of these methods will enable readers to narrowly tailor the properties of particular materials towards real-world applications, providing confidence in the underlying mechanics and in the range of possible outcomes.

Calculations and Simulations of Low-Dimensional Materials is a useful reference for materials scientists, electrochemists, inorganic chemists, physical chemists, photochemists, and the libraries that support these professions.

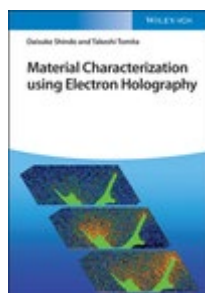
OCTOBER 2022 272PP
978-3-527-34909-8 CL \$151.55 (Japan)
Theory, Modeling & Simulation

Material Characterization Using Electron Holography

DAISUKE SHINDO & TAKESHI TOMITA

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

Material Characterization Using Electron Holography addresses how the electromagnetic field can be directly visualized and precisely interpreted based on Maxwell's equations formulated by special relativity, leading to the understanding of electromagnetic properties of advanced materials and devices. In doing so, it delivers a unique route to imaging materials in higher resolution.



The focus of the is on in-situ observation of electromagnetic fields of diverse functional materials. Furthermore, an extension of electron holographic techniques, such as direct observation of accumulation and collective motions of electrons around the charged insulators, is also explained. This approach enables the reader to develop a deeper understanding of functionalities of advanced materials.

For materials scientists, analytical chemists, structural chemists, analytical research institutes, applied physicists, physicists, semiconductor physicists, and libraries looking to be on the cutting edge of methods to analyze electromagnetic behavior of materials, *Material Characterization Using Electron Holography* offers comprehensive coverage of the subject from authoritative and forward-thinking topical experts.

OCTOBER 2022 272PP
978-3-527-34804-6 CL \$165.00 (Japan)
Materials Characterization

Handbook of Bioplastics and Biocomposites Engineering Applications

2nd Edition

INAMUDDIN & TARIQ A. ALTALHI

King Abdulaziz University, Jeddah, Saudi Arabia; Aligarh Muslim University, Aligarh, India

OCTOBER 2022 UnknownPP
978-1-119-16013-7 CL \$249.00 (Japan)
COMPOSITES

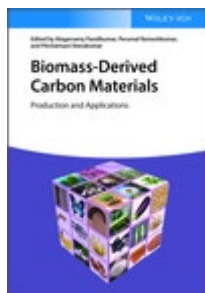
Biomass-Derived Carbon Materials

Production and Applications

EDITOR ALAGARSAMY PANDIKUMAR, EDITOR PERUMAL RAMESHKUMAR & EDITOR PITCHAIMANI VEERAKUMAR

Explores the sustainable production of carbon materials and their applications

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



In *Biomass-Derived Carbon Materials: Production and Applications*, a team of accomplished researchers delivers a thorough and up-to-date exploration of the preparation and activation processes of biomass-derived carbon materials, the fabrication of composites, and assorted and multidisciplinary applications of the technology. The book also covers future opportunities for research and application.

Introductory chapters provide information about the production, functionalization, and characterization of biomass-derived carbon materials, while the latter parts of this edited volume discuss the applications of biomass-derived carbon materials such as catalysis, sensors, microbicidal activity, toxic chemicals removal, drug delivery, and energy conversion and storage applications.

Ideal for materials scientists as well as industrial chemists and biochemists, *Biomass-Derived Carbon Materials: Production and Applications* also belongs in the libraries of electrochemists and sensor developers.

OCTOBER 2022 352PP
978-3-527-34926-5 CL \$175.00 (Japan)
Carbon Materials

Fundamentals of Carbon

From Atomic to Bulk Scales

MAHER S. AMER

This book discusses all forms of carbon, their properties and applications on different scales and, most importantly, link them together from a material science perspective.

OCTOBER 2022 450PP
978-3-527-34920-3 PB \$114.95 (Japan)
Carbon Materials

Sodium-Ion Batteries

Materials, Characterization, and Technology,
2 Volumes (再掲載)

EDITOR MARIA-MAGDALENA TITIRICI, EDITOR PHILIPP
ADELHELM & EDITOR YONG SHENG HU

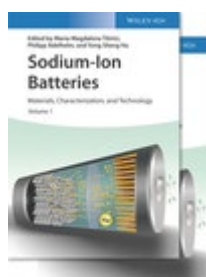
Queen Mary, University of London, School of Engineering and
Materials Science, London, UK

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

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

Sodium-Ion Batteries: Materials, Characterization, and Technology provides in-depth coverage of the material constituents, characterization, applications, upscaling, and commercialization of Na-ion batteries. Contributions by international experts discuss the development and performance of cathode and anode materials and their characterization - using methods such as NMR spectroscopy, magnetic resonance imaging (MRI), and computational studies - as well as ceramics, ionic liquids, and other solid and liquid electrolytes.

The handbook *Sodium-Ion Batteries: Materials, Characterization, and Technology* is an indispensable reference for researchers and development engineers, materials scientists, electrochemists, and engineering scientists in both academia and industry.



OCTOBER 2022 736PP
978-3-527-34709-4 CL \$330.00 (Japan)
Materials for Energy Systems

Nanotechnology in Intelligent Food Packaging

EDITOR ANNU, EDITOR TANIMA BHATTACHARYA & EDITOR
SHAKEEL AHMED

Government Degree College Mendhar, India

**This book is a state-of-the-art exposition
of nanotechnology and food packaging
which is undergoing rapid advancement.**

This book is specially designed with an emphasis on the state-of-the-art in nanotechnology and food packaging. It offers fascinating techniques for producing smart and active food packaging and also discusses its toxicity and the role that nanosensors play in detecting different pathogens in food packaging. The concluding chapters also explain recent developments concerning the incorporation of health supplements in food packaging and their future role in producing intelligent food packaging.

The 16 chapters of this book were contributed by academic and industry experts working in their respective areas of research and are thoughtfully arranged in a systematic fashion that preserves the flow of knowledge. An attempt has been made to include all the information in a single monograph to better understand the topics and technologies involved in the application of nanotechnology in intelligent food packaging.

Audience

The book is aimed at researchers, industry scientists such as chemists, biologists, polymer technologists, food packaging industrialists, biotechnologists, health experts, quality/food safety officials, and policymakers. It will also be helpful to graduate students in the fields of materials science, polymer science, and biotechnology to better understand the fundamental concepts involved in food packaging in relation to extending shelf life.



OCTOBER 2022 448PP
978-1-119-81895-3 CL \$225.00 (Japan)
Nanomaterials

ナースング

The Great Ormond Street Hospital Manual of Children and Young People's Nursing Practices, 2nd Edition

EDITOR ELIZABETH BRUCE, EDITOR JANET WILLISS & EDITOR FAITH GIBSON

Great Ormond Street Hospital, London; Great Ormond Street Hospital

Clinical skills are essential in the provision of care for children and young people. *The Great Ormond Street Hospital Manual of Children and Young People's Nursing Practices* provides expert guidance on evidence-based clinical procedures, helping students and newly registered nurses develop sound clinical judgement and confidence. This comprehensive resource covers all aspects of children's nursing, from the fundamentals of everyday practice to advanced care in high dependency and intensive care settings. As such, its relevance and usefulness reach beyond those newly registered; it remains a valuable resource for experienced nurses wishing to further expand their nursing skills.

Now in its second edition, this thoroughly updated guide demonstrates each procedure, explains the underlying theory and evidence, and speaks to the unique challenges of working with children and young people. New chapters address mental health, complementary therapies, learning difficulties, and the deteriorating child, whilst expanded content examines blood glucose monitoring, glucocorticoid treatment, insulin administration, diabetes care, surgical diathermy, non-invasive ventilation, and much more.

The second edition of *The Great Ormond Street Hospital Manual* is an indispensable resource for registered nurses, students, and other healthcare professionals involved in delivering clinically effective, evidenced-based, family-centred care.



OCTOBER 2022 792PP
978-1-118-89822-2 PB \$61.95 (Japan)
NURSING CHILDREN & YOUNG PEOPLE

物理学

Collinear Holography

Devices, Materials, Data Storage

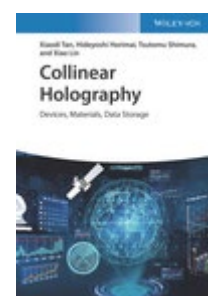
XIAODI TAN, HIDEYOSHI HORIMAI, TSUTOMU SHIMURA & XIAO LIN

Provides state-of-the-art, in-depth knowledge on the principles, devices, and applications of collinear holography

In the era of Big Data, traditional magnetic and optical storage technologies are unable to satisfy the growing demand for reliable, scalable, cost-effective, and energy-efficient data storage. Holographic storage, considered the most promising technology for meeting the future storage needs of the information age, adopts a three-dimensional volume storage mode with a theoretical storage density vastly greater than conventional optical disks.

Collinear Holography: Devices, Materials, Data Storage is a comprehensive, up-to-date account of the volumetric recording technology that combines large storage capacities with high transfer rates and exceptional reliability in optical data storage systems. Written by pioneers in the field, this authoritative book provides detailed coverage of the key technological approaches, theories, applications, systems, devices, and components in the rapidly advancing field of holographic data storage.

Collinear Holography: Devices, Materials, Data Storage is an indispensable resource for applied physicists, electrical engineers, and materials and information scientists in both academia and industry.



OCTOBER 2022 288PP
978-3-527-41363-8 CL \$175.00 (Japan)
Optics & Photonics

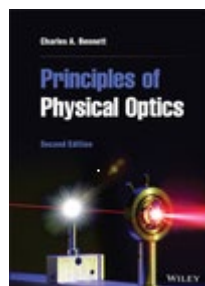
Principles of Physical Optics

CHARLES A. BENNETT

University of North Carolina at Asheville

An intuitive and accessible approach to the fundamentals of physical optics

In the newly revised Second Edition of *Principles of Physical Optics*, eminent researcher Dr. Charles A. Bennett delivers an intuitive and practical text designed for a one-semester, introductory course in optics. The book helps readers build a firm foundation in physical optics and gain valuable, practical experience with a range of mathematical applications, including matrix methods, Fourier analysis, and complex algebra.



This latest edition is thoroughly updated and offers 20% more worked examples and 50% more homework problems than the First Edition. Only knowledge of standard introductory sequences in calculus and calculus-based physics is assumed, with the included mathematics limited to what is necessary to adequately address the subject matter. The book provides additional materials on optical imaging and nonlinear optics and dispersion for use in an accelerated course.

Perfect for advanced undergraduate students of physics, chemistry, and materials science, *Principles of Physical Optics* also belongs on the bookshelves of engineering students seeking a one-stop introduction to physical optics.

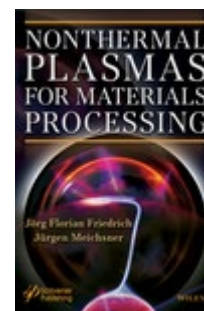
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OPTICS & PHOTONICS

Nonthermal Plasmas for Materials Processing

JRG FRIEDRICH & JURGEN MEICHSNER

Bundesanstalt für Materialforschung, Berlin, Ge

This comprehensive book combines in-depth but condensed state-of-the-art chapters on plasma physical basics, plasma diagnostics, interactions of plasma-solid, chemistry at polymer surfaces, energetic situations in plasma and at polymer surfaces, reactions on and after plasma exposure, grafting, and polymer surface analysis. Technical applications such as adhesion, cleaning, wettability, textile modification, coatings, films, etc. are discussed as well. New perspectives are explained to use selective and mild processes to allow post-plasma chemistry on non-degraded polymer surfaces.



OCTOBER 2022 704PP
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Plasma Physics

哲学

Atoms, Radiation, and Radiation Protection

4th Edition

JAMES S. BOGARD, DARRYL J. DOWNING, ROBERT L. COLEMAN, KEITH F. ECKERMAN & JAMES E. TURNER

Dade Moeller, Inc., Oak Ridge, TN, USA; GlaxoSmithKline, Collegeville, USA; Oak Ridge National Laboratory, Martin Marietta Energy Systems, Inc., and Univ. of Tennessee

This fourth edition of the classic textbook has been updated and revised by a renowned team of experienced health physicists and book authors, to include current physiokinetic and dosimetric models as recommended by the International Commission on Radiological Protection. In addition, all units are now given using the SI system, making the book even more useful to an international audience, while the sections on statistics have been completely rewritten to make them more accessible.

As a result, the text offers advanced students and professionals comprehensive coverage of the major concepts behind the origins and transport of ionizing radiation in matter. It covers the detection and measurement of radiation and the statistical interpretation of the data, thoroughly describing the procedures that are used to protect humans and the environment from the potential harmful effects. Throughout, the basic principles are elucidated using numerous worked examples that exemplify practical applications and each chapter includes problem sets (with partial answers) and extensive tables and graphs for continued use as a reference work.

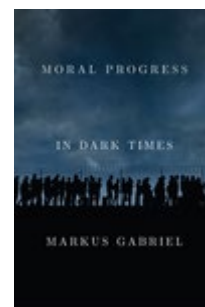
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Universal Values for the 21st Century

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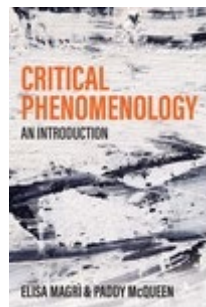
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JOSEPH KEIM CAMPBELL

Washington State University

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

SERIES: BLACKWELL COMPANIONS TO PHILOSOPHY

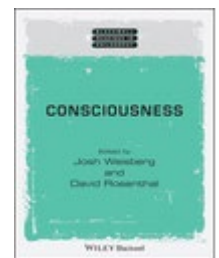
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Metaphysics

Consciousness

EDITOR JOSH WEISBERG, EDITOR DAVID ROSENTHAL & SERIES
EDITOR STEVEN M. CAHN

University of Houston; City University; CUNY Graduate Centre

Consciousness is a thought-provoking collection of classic and contemporary philosophical literature on consciousness, bringing together influential scholarship by seminal thinkers and the work of emerging voices who reflect the diversity of the field. Editors Josh Weisberg and David Rosenthal have selected discussions that animate modern debates and connect consciousness to broader philosophical topics.



Providing an expansive view of the philosophical landscape of consciousness studies, this carefully calibrated reader features classic work from the past four decades by seminal thinkers such as Thomas Nagel, David Lewis, Ned Block, Gilbert Harman, and Daniel Dennett, as well as important recent work from David Chalmers, Fiona Macperson, Joseph Levine, Kathleen Akins, and other contemporary philosophers.

Divided into five parts, *Consciousness* explores the nature of consciousness, consciousness and knowledge, qualitative consciousness, and theories of consciousness. A final section on agency and physicalism includes work by Galen Strawson and a previously unpublished article by Myrto Mylopoulos. Philosophically challenging yet accessible to students, *Consciousness* is an ideal reader for many undergraduate and graduate courses on consciousness or philosophy of mind, as well as a useful supplementary text for general classes in philosophy and a valuable reference text for philosophers of mind, cognitive scientists, and psychologists.

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2nd Edition

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ポリマーサイエンス

Smart Stimuli-Responsive Polymers

Polymers, Films, and Gels

EDITOR LIANG HU, EDITOR YONGFENG GAO & EDITOR MICHAEL J. SERPE

University of Alberta, Alberta, Canada

This excellent reference presents everything from synthesis to applications in emerging fields like biomedicine, electronics, sensors and more - a "must-have" for every researcher in the field.



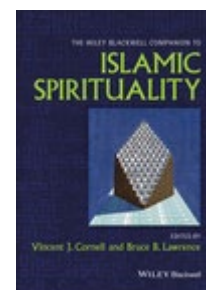
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Polymer Synthesis

宗教

The Wiley Blackwell Companion to Islamic Spirituality

VINCENT J. CORNELL & BRUCE B. LAWRENCE

A ground-breaking and comprehensive collection on various facets of Islamic spirituality throughout history and in the modern world



The Wiley Blackwell Companion to Islamic Spirituality is an authoritative reference work comprising twenty-eight scholarly essays that explore the expressive and performative dimensions of Islamic spirituality. Edited by two of its most prominent scholars, and bringing together a stellar cast of contributors, this wide-ranging volume covers religious practices, sacred texts, history and places, gender, music, poetry, the visual arts, and politics.

Spirituality has had a long and important history in Islam, where a focus on spirituality is required of every believer. Each Muslim is asked to achieve a state of devotion through prayer, fasting, supplications, recitations, pilgrimage, and ascetic practices. The essays in this volume explain the role of spirituality in Islam—from its beginnings, through the development of its institutions, and into the present day. They also reflect important new research, and discuss contemporary debates and issues affecting Islamic spirituality such as the Internet, social justice, the role of women, ethics, and religious fundamentalism.

From the personal to the political, *The Wiley Blackwell Companion to Islamic Spirituality* offers a fresh and revitalized view of all aspects of spirituality in Islam. It is a must-have scholarly resource for advanced undergraduates, graduate students, instructors and scholars studying Islam, spirituality, and Asian and Middle Eastern history as well as general readers with an interest in the subject.

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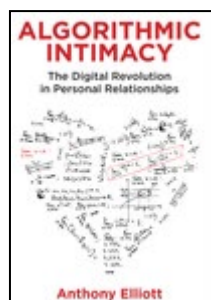
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Flinders University

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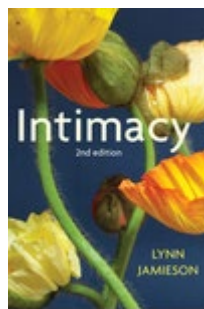
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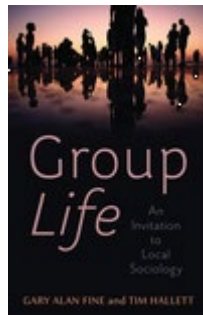
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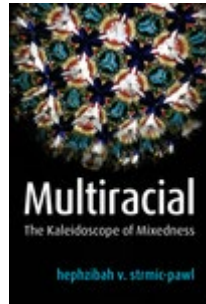


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HEPHZIBAH V. STRMIC-PAWL

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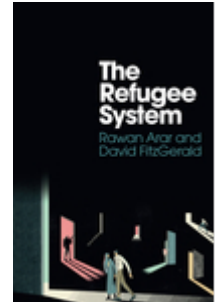
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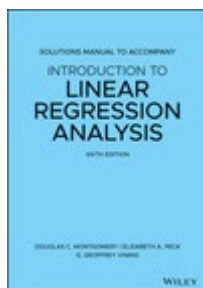
Solutions Manual to accompany Introduction to Linear Regression Analysis

6th Edition

DOUGLAS C. MONTGOMERY, UNITED STATES, ELIZABETH A. PECK & G. GEOFFREY VINING

Georgia Institute of Technology; The Coca-Cola Company; Virginia Polytechnic and State University

As the **Solutions Manual**, this book is meant to accompany the main title, **Introduction to Linear Regression Analysis**, Sixth Edition. Clearly balancing theory with applications, this book describes both the conventional and less common uses of linear regression in the practical context of today's mathematical and scientific research. Beginning with a general introduction to regression modeling, including typical applications, the book then outlines a host of technical tools that form the linear regression analytical arsenal, including: basic inference procedures and introductory aspects of model adequacy checking; how transformations and weighted least squares can be used to resolve problems of model inadequacy; how to deal with influential observations; and polynomial regression models and their variations. The book also includes material on regression models with autocorrelated errors, bootstrapping regression estimates, classification and regression trees, and regression model validation.



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トラベル

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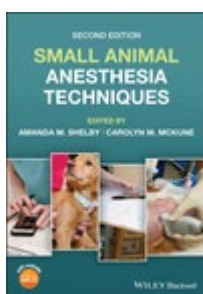
Small Animal Anesthesia Techniques

2nd Edition

EDITOR AMANDA M. SHELBY & EDITOR CAROLYN M. MCKUNE

Louisiana State University, Baton Rouge, Louisiana, USA;
Mythos Veterinary LLC, Gainesville, Florida, USA

Small Animal Anesthesia Techniques offers quick reference to essential information for anesthetizing canine, feline, and exotic animal patients, presenting easy-to-follow protocols to support veterinary technicians and veterinary practitioners in safely and effectively delivering anesthesia in clinical practice. This book is highly unique in its quick reference, techniques-focused approach, making it ideal for all professionals seeking procedure-based coverage of the topic.



Designed for fast access in the clinical setting, the text covers practical information on anesthetic plans, equipment, potential complications, and more. A companion website provides video clips, images, and worksheets.

The Second Edition has been thoroughly updated throughout to reflect advances in equipment, knowledge, and trends, now covering anaphylaxis under anesthesia, opioid alternatives in the face of drug shortages, feline and canine pain scales, reducing mortality associated with anesthesia, managing difficult intubations, the importance of gastroprotectants and use of medications to combat vomiting, and other trending topics and areas of interest since the 2014 edition was published. Additional images, tables, and charts have also been added to further enhance the text.

Small Animal Anesthesia Techniques is a must-have reference for small animal veterinary technicians and practitioners. It is an extremely valuable resource both in the knowledge contained within and the highly practical guidelines for implementing concepts in the field to provide better care to small animals of all types.

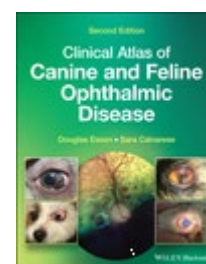
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VETERINARY ANESTHESIA, ANALGESIA & PAIN MEDICINE

Clinical Atlas of Canine and Feline Ophthalmic Disease

2nd Edition

DOUGLAS W. ESSON & SARA CALVARESE

Clinical Atlas of Canine and Feline Ophthalmic Disease is a practical and user-friendly reference of common ocular diseases and conditions. Maintaining an image-heavy approach, the book presents multiple high-quality color photographs to depict each condition and is carefully organized to make it easy to find information. Sample topics included in the significantly expanded and updated new edition include:



- Basic ophthalmic anatomy & physiology
- Normal anatomical variations
- The ocular examination
- Basic ophthalmic pharmacology
- Diseases of the globe & orbit
- Diseases of the conjunctiva, nasolacrimal system & third eyelid

Veterinary and animal science students, general canine and feline practitioners as well as interns, residents and specialists in a variety of areas can use this easily-accessible reference work to gain insight into a wide variety of ocular diseases affecting dogs and cats.

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VETERINARY OPHTHALMOLOGY

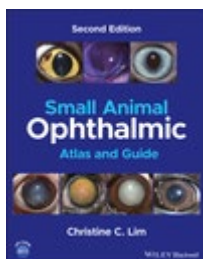
Small Animal Ophthalmic Atlas and Guide

2nd Edition

CHRISTINE C. LIM

University of Minnesota, St. Paul, Minnesota, USA

Small Animal Ophthalmic Atlas and Guide is designed to offer a quick reference to common ocular conditions in dogs and cats, presenting high-quality color photographs to facilitate diagnosis and offering details on each condition to support clinicians in clinical decision making. In addition to updates throughout, the Second Edition includes significantly more images than the previous edition, with updates to images to include more representative examples where possible.



In *Small Animal Ophthalmic Atlas and Guide*, the image section is organized by area of the eye, making it easy to find and compare images to make a diagnosis, and the disease section is carefully targeted to the most crucial details for developing a management plan. A companion website provides video clips.

With its broad coverage of essential topics and accessible images that help with accurate and fast diagnoses, *Small Animal Ophthalmic Atlas and Guide* is an essential reference for small animal general practitioners, students, residents, and interns, and can also be used as a reference to show examples to clients.

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VETERINARY OPHTHALMOLOGY

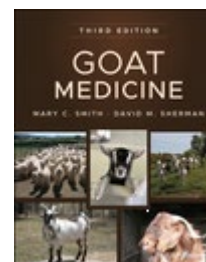
Goat Medicine

3rd Edition

MARY C. SMITH & DAVID M. SHERMAN

Department of Population Medicine and Diagnostic Sciences, College of Veterinary Medicine, Cornell University, Ithaca, New York; Cummings School of Veterinary Medicine, Tufts University, North Grafton, Massachusetts

Provides readers with an in depth understanding of the full range of diseases potentially occurring by goats across the wide spectrum of geographic and management conditions in which goats are kept, from extensive grazing to intensive dairy production to backyard pet.



Goat Medicine, Third Edition is a complete resource for understanding caprine diseases worldwide. Covering the latest advances on diagnostic and therapeutic techniques, the two authors, board certified veterinarians with a global experience in goat health and production, offer a comprehensive examination of all important diseases encountered in the goat. The book offers authoritative and clinically relevant information on recognizing, diagnosing, treating, controlling and preventing goat disease at the individual, herd and national levels.

To aid in reader comprehension and promote seamless assimilation of the knowledge contained within, the book is logically organized by body system and includes full color images throughout. Scientists, researchers, government veterinarians, laboratory diagnosticians, industry veterinarians, veterinary technicians and veterinary practitioners around the world can confidently consult this book time and again as an all-in-one, complete resource for all topics pertaining to goat health and disease.

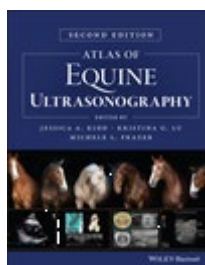
OCTOBER 2022 928PP
978-1-119-38273-7 CL \$224.99 (Japan)
VETERINARY MEDICINE - FARM ANIMALS

Atlas of Equine Ultrasonography

2nd Edition

JESSICA A KIDD, KRISTINA G LU & MICHELE L FRAZER

Ultrasonography is a vital diagnostic tool that can be applied in numerous functions in a veterinary practice. In conjunction with relevant clinical information--patient history and physical examination findings, for example--it can act as an important aid in the veterinarian's decision-making process. Many vets in equine practice rely upon ultrasonography as a mainstay of equine diagnostic imaging on a wide range of structures and body systems. Ultrasonography is a useful procedure that is non-invasive and acts in complement to radiography to successfully diagnose the animal's condition. This book's aim is to encourage the clinician to rely further on the use of ultrasonography in their practice.



The second edition of *Atlas of Equine Ultrasonography* provides an updated and expanded revision of the first atlas of ultrasonography in the horse. The first edition of this important resource was the first pictorially-based book to cover ultrasonography in the horse, and remains the only book currently available on the subject. The current version offers 450 additional images with greater clarity and precision in the images throughout and demonstrates how to obtain images in each body region while offering clinical ultrasonograms that show pathology.

Atlas of Equine Ultrasonography is an invaluable reference to any veterinarian evaluating ultrasonograms in equine patients. As a result, this book will be of particular interest to equine specialists, veterinary radiologists, equine practitioners, and veterinary students.

OCTOBER 2022 624PP
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VETERINARY MEDICINE - EQUINE

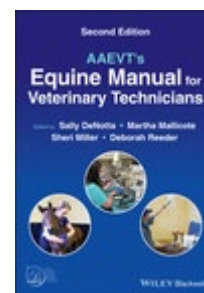
AAEVT's Equine Manual for Veterinary Technicians

2nd Edition

SALLY DENOTTA, MARTHA MALLICOTE, EDITOR SHERI MILLER
& EDITOR DEBORAH REEDER

American Association of Equine Veterinary Technicians

Practical handbook on all aspects of veterinary care in horses relevant to veterinary technicians



AAEVT's Equine Manual for Veterinary Technicians, Second Edition offers a compendium of information on the care and treatment of horses for equine veterinary technicians, building on the basics of equine care to provide a complete reference for equine nursing skills, training, and technical information. The text is specifically geared toward those who already have basic equine knowledge and training and are looking to build upon their foundations.

Comprehensive yet accessible, the new edition updates all medical, procedural, pharmaceutical, equipment, staffing, and office management information. Images also appear in full color throughout the book for the first time.

Chapters cover a variety of topics ranging from general horse management and nutrition to diagnostics and medical emergencies. Charts, tables, and images support the text to aid in reader comprehension.

Highly accessible and easy to use, *AAEVT's Equine Manual for Veterinary Technicians, Second Edition* is an invaluable reference for qualified equine veterinary technicians and assistants--particularly those earning their equine certification--as well as vet tech students and equine practices.

OCTOBER 2022 UnknownPP
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VETERINARY NURSING & ANIMAL CARE

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