

JAPAN PREVIEW

July 2022



WILEY

PICK OF THE MONTH ~ 今月のお勧めタイトル**The Metaverse Handbook: Innovating for the Internet's Next Tectonic Shift**

QUHARRISON TERRY, DALLAS-FORT WORTH METROPLEX & SCOTT "DJ SKEE" KEENEY

→P12

Engineering Fluid Mechanics : 12th Edition, International Adaptation

DONALD F. ELGER, BARBARA A. LEBRET, CLAYTON T. CROWE & JOHN A. ROBERSON

→P17

Analysis of Enzyme Reaction Kinetics, 2 Volume Set

F. XAVIER MALCATA / Instituto Superior da Maia

→P18

Handbook of Forensic Medicine, 2nd Edition

EDITOR BURKHARD MADEA / University of Bonn

→P21

Organic Reactions, Volume 109

EDITOR-IN-CHIEF P. ANDREW EVANS / Queen's University, Department of Chemistry, Kingston, Canada

→P24

2023 CFA Program Curriculum Level I – III Box Set

CFA INSTITUTE

→P39-40

Calculus Early Transcendentals: 12th Edition, International Adaptation

HOWARD ANTON, IRL C. BIVENS & STEPHEN DAVIS / Drexel University; Davidson College; Davidson College

→P53

Bosch Automotive Handbook, 11th Edition ボッシュ自動車ハンドブック

ROBERT BOSCH GMBH

→P60

DNA Origami: Structures, Technology, and Applications

EDITOR MASAYUKI ENDO

(遠藤 政幸 関西大学 先端科学技術推進機構 特別任命教授・京都大学 高等研究院 客員教授)

→P65

Physics: 12th Edition, International Adaptation

JOHN D. CUTNELL, KENNETH W. JOHNSON, DAVID YOUNG & SHANE STADLER

Southern Illinois University at Carbondale; Southern Illinois University at Carbondale; Cytoclonal Pharmaceuticals Inc.

→P68

Essentials of Veterinary Ophthalmology, 4th Edition

KIRK N. GELATT & CARYN E. PLUMMER / University of Florida; University of Florida

→P76

JAPAN PREVIEW

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農業

Enhancing Agricultural Research and Precision Management for Subsistence Farming by Integrating System Models with Experiments

EDITOR DENNIS TIMLIN, EDITOR SASEENDRAN S. ANAPALLI &
SERIES EDITOR LAJPAT R. AHUJA

USDA, Fort Collins, CO

Insightful applications of crop system models to developing countries to explore climate change mitigation and management decision tools

Enhancing Agricultural Research and Precision Management for Subsistence Farming by Integrating System Models with Experiments, delivers an authoritative collection of applications of crop system models to Asian and African environments and evaluates current agricultural systems in developing nations. The book provides models to assist in the precision management of soil water, fertilizers and manures, soil organic matter, alternative crops, and cultivars in both rainfed and irrigated systems.

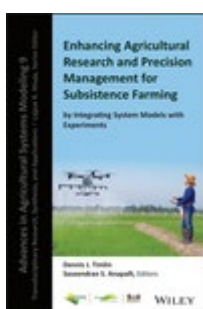
Contributions cover recent and ongoing research in knowledge gap areas such as modeling the long-term effect of management soil health, the effect of extreme temperatures and drought on evapotranspiration and crop growth, root growth and the uptake of water and nutrients.

Perfect for field research scientists and graduate students studying cropping and range systems, and essential reading for agricultural consultants, progressive farmers, plant breeders, and policymakers.

Volume 9 in the series, *Advances in Agricultural Systems Modeling: Transdisciplinary Research, Synthesis, and Applications*.

SERIES: ADVANCES IN AGRICULTURAL SYSTEMS MODELING

JULY 2022 UnknownPP
978-0-89118-390-7 CL \$145.00 (Japan)
Tropical Agriculture



建築学

Machine Learning and the City

Applications in Architecture and Urban Design

EDITOR SILVIO CARTA

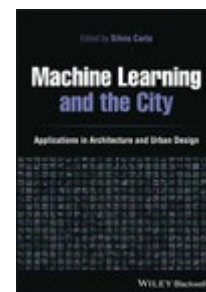
Explore the applications of machine learning and artificial intelligence to the built environment

Machine Learning and the City: Applications in Architecture and Urban Design delivers a robust exploration of machine learning (ML) and artificial intelligence (AI) in the context of the built environment. Relevant contributions from leading scholars in their respective fields describe the ideas and techniques that underpin ML and AI, how to begin using ML and AI in urban design, and the likely impact of ML and AI on the future of city design and planning.

Each included section couples theoretical and technical chapters complete with authoritative references and concrete examples and projects that illustrate the efficacy and power of machine learning in urban design. The book also includes:

- An introduction to the probabilistic logic that underpins machine learning
- Comprehensive explorations of the applications of machine learning and artificial intelligence to urban environments
- Practical discussions of the consequences of applied machine learning and the future of urban design

Perfect for designers approaching machine learning and AI for the first time, *Machine Learning and the City: Applications in Architecture and Urban Design* will also earn a place in the libraries of urban planners and engineers involved in urban design.



JULY 2022 656PP
978-1-119-74963-9 PB \$80.00 (Japan)
Design, Drawing & Presentation

ビジネス

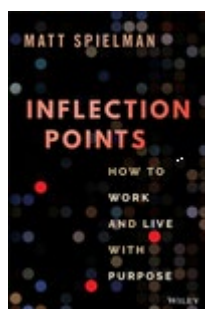
Inflection Points

How to Work and Live with Purpose

MATT SPIELMAN

Discover your purpose with the Game Plan System

In *Inflection Points: How to Work and Live with Purpose*, renowned executive coach and speaker Matt Spielman delivers an energizing and hands-on existential navigational tool that walks you through how to identify what really matters in life and how to achieve it. Using a powerful life transformation system called the "Game Plan System"—or GPS—you will simply use the answers to straightforward questions to reorient your perspective and refocus your efforts on realizing happiness and fulfillment.



In the book, you will also learn to:

- Create a powerful new roadmap to achieve what truly matters to you and move aside what may be getting in the way
- Celebrate your wins and effectively process your setbacks
- Discover and consider the value of coaching in your personal and professional life

The perfect book for anyone hoping to move through life with confident and renewed purpose and vigor, *Inflection Points* is an expertly crafted and powerful collection of strategies to act with more intentionality, help yourself and others, and realize your goals and achieve greater fulfillment.

JULY 2022 240PP
978-1-119-88738-6 CL \$24.95 (Japan)
Business Self-Help

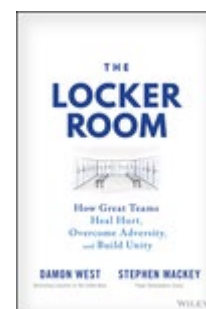
The Locker Room

How Great Teams Heal Hurt, Overcome Adversity, and Build Unity

DAMON WEST & STEPHEN MACKEY

Explore the power of communication to heal hurt, overcome adversity, and build a unified team

In *The Locker Room*, bestselling author Damon West and player development coach Stephen Mackey team up to explore difficult conversations about eliminating both discrimination and the cancel culture, as well as overcoming adversity. The book tells the story of four characters: two high school football coaches and two players, each of whom must deal with the fallout of an offensive comment that severely disrupts the unity and cohesion of their locker room and threatens to destroy their team.



In *The Locker Room*, you'll find:

- A guide to building an inclusive culture
- The blueprint for using servant leadership and a willingness to listen to break down barriers
- Encouragement to have the difficult conversations that lie at the heart of modern life
- Strategies for navigating your personal and professional life in a way that gracefully deals with the realities of prejudice, discrimination, and cancel culture
- Techniques for giving all people an equal voice and an equal chance at success through learning with humility and teaching with grace

An indispensable exploration of some of the most critical and most difficult issues faced by professionals, coaches, athletes, and students today, *The Locker Room* is a must-read resource that belongs in the libraries of anyone who seeks a life or culture that can not only overcome adversity, but can also use it to reach their goals and improve their communities.

JULY 2022 128PP
978-1-119-89784-2 CL \$24.00 (Japan)
Business Self-Help

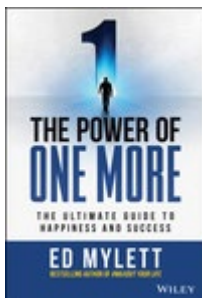
The Power of One More

The Ultimate Guide to Happiness and Success

ED MYLETT

You're one more intentional thought and action away from discovering your best life

In *The Power of One More*, renowned keynote speaker and performance expert Ed Mylett draws on 30 years of experience as an entrepreneur and coach to top athletes, entertainers, and business executives to reveal powerful strategies to help you live an extraordinary "one more" life.



In *The Power of One More*, you'll:

- Learn why you're closer to your dreams and goals than you think and why using *The Power of One More* strategies will help you cross the finish line in whatever race you're running
- Understand the psychology and science of how to use *The Power of One More* in every part of your life will help you solve problems and achieve levels of success you never thought possible
- Discover time-tested and unique solutions to challenges that will remove the mental roadblocks you've been battling for years

Perfect for anyone who wants more bliss, wealth, or better relationships, *The Power of One More* is an indispensable roadmap to realizing and exceeding your personal and professional goals by tapping into the superpowers and gifts you already have inside you.

JULY 2022 256PP
978-1-119-81536-5 CL \$28.00 (Japan)
Business Self-Help

Future Skills

BERNARD MARR

Advanced Performance Institute, Buckinghamshire, UK

JULY 2022 300PP
978-1-119-91368-9 CL
Personal Career Development

The Metaverse Handbook

Innovating for the Internet's Next Tectonic Shift

QUHARRISON TERRY, DALLAS-FORT WORTH METROPLEX & SCOTT
"DJ SKEE" KEENEY

The Metaverse Handbook is the resource for C-suite executives and creative professionals alike seeking to understand and apply the emerging changes to the web to their business ventures. One part inspiration and one part education, *The Metaverse Handbook* highlights more than 120 creators who are building new digital tools and guides readers through the steps to harness innovations in digital commerce, digital communities, and consumer digital experiences.



It will explore:

- Web3 development with blockchain-based websites
- Changes to user digital identification through blockchain wallets
- Digital asset creation and ownership via NFTs
- Immersive gaming and social environments
- Building blocks of the metaverse
- Pitfalls to achieving the vision of the metaverse

The Metaverse Handbook illustrates these dense, futuristic topics with easy-to-understand examples, approachable language, and concrete practical applications. Readers will be empowered to apply the foundational and advanced concepts they learn to their own work with VR/AR technologies.

JULY 2022 224PP
978-1-119-89252-6 CL \$28.00 (Japan)
Business Technology

User Experience Design

A Practical Playbook to Fuel Business Growth

SATYAM KANTAMNENI, PLEASANTON

Igniting business growth through UX

In an increasingly digital world, users are rewarding products and services that provide them with a good experience and punishing those that don't -- with their wallets. Organizations realize they need to adapt quickly but don't know how or where to start.



In *User Experience Design: A Practical Playbook to Fuel Business Growth*, UXReactor co-Founder Satyam Kantamneni distills 25 years of industry experience into a pragmatic approach to help organizations advance in the highly competitive and rapidly changing digital world.

You'll discover:

- Why putting users at the center of strategy leads to an almost unfair competitive advantage
- Ways to build an organizational system that delivers a superior user experience that is replicable, consistent, and scalable
- Common shortfalls that prevent organizations from reaping the value of experience design
- 27 proven "plays" from the UXReactor playbook to put concepts into practice
- Game planning examples to execute at different levels of an organization

A comprehensive and practical book for everyone involved in the transformation -- business leaders, design leaders, product managers, engineers, and designers -- *User Experience Design: A Practical Playbook to Fuel Business Growth* is also an ideal blueprint for current and prospective UX practitioners seeking to improve their skills and further their careers.

JULY 2022 320PP
978-1-119-82920-1 PB \$34.00 (Japan)
Business Technology

Soft Skills for the Professional Services Industry

Principles, Tasks, and Tools for Success

ANDREAS CREUTZMANN, SPEYER, GERMANY

Auditors, accountants, lawyers, consultants, and other highly educated and trained professionals frequently hold impressive credentials and offer clients specialized expertise in complex areas. At the same time, these professionals understandably focus on the analytical and technical components of their jobs, sometimes to the point of excluding or ignoring important soft skills critical to the success of their careers and practices.



In *Soft Skills for the Professional Services Industry: Principles, Tasks, and Tools for Success*, veteran auditor and entrepreneur Andreas Creutzmann delivers an essential discussion of often overlooked professional competencies that can mean the difference between career, engagement, and business success or failure. In the book, you'll find accessible guidance on critical soft skills that can make a difference between fulfilment and success and failure on a professional and personal level. You'll learn to handle the blending of home and the home office, how to effectively manage staff, how to market yourself and your firm, practical strategies for client and colleague communication, and how to find happiness in your day-to-day work.

Each chapter stands alone and can be read in any order. They provide professionals with invaluable skills for navigating the modern--and digital--reality of work, showing you how to combine your professional education with the latest research and common sense on everything from client management to firm marketing.

Soft Skills for the Professional Services Industry uses the field of auditing as a template and guide, but it is highly relevant to all skilled professionals -- including lawyers, consultants, medical professionals, and others. The book is a must-read for any knowledge worker trying to add to their toolbox of practical skills.

JULY 2022 272PP
978-1-119-87553-6 CL \$35.00 (Japan)
Management / Leadership

How the Future Works

Leading Flexible Teams To Do The Best Work of Their Lives

BRIAN ELLIOTT, SHEELA SUBRAMANIAN, HELEN KUPP &
FOREWORD BY STEWART BUTTERFIELD

Co-founder abd CEO of Slack

Unlock the power of flexible work with this practical "how-to" guide from the leadership of Slack and Future Forum



The way we work has changed. The era of toiling from nine-to-five, five-days-a-week in the office is now a relic of the past, and is being replaced by a better way--flexible work. But flexibility means a lot more than a day or two a week to "work from home": 93% of your employees want more flexibility in *when*, not just *where*, they work. They want choice and they are leaving their roles to find it. The most successful leaders will go much further than offering occasional remote workdays--they will redesign every aspect of how work gets done, from defining how they measure organizational success to training their managers to make it happen.

How the Future Works: Leading Flexible Teams to Do The Best Work of Their Lives offers a blueprint for using flexible work to unlock the potential of your people. The book offers the steps necessary to building the new principles and guardrails to empower flexible, high-performing teams. And it teaches readers to lead with purpose, to manage and measure differently, and to believe that by letting go, they'll get more back than they thought possible.

Using original research from Future Forum, a consortium by Slack, and global case studies from leading companies such as Levi Strauss & Co., Genentech, Royal Bank of Canada, and IBM, *How the Future Works* offers concrete solutions and practical steps for building high functioning teams of talented, engaged people by providing them with the flexibility and choice they need to do their best work.

JULY 2022 240PP
978-1-119-87095-1 CL \$30.00 (Japan)
Management / Teams

User Experience Research

Discover What Customers Really Want

MARTY GAGE, COLUMBUS & SPENCER MURRELL, DELAWARE

The Fuzzy Front End Gets Demystified in This Next-Generation User Research Guide

The first phase of the design thinking process is arguably the most crucial, as this is when human insights are leveraged to define value for customers. Yet this so-called "empathize" phase is often deemed optional or is executed poorly. This degrades the entire innovation process that follows by permitting preexisting biases and guesswork that make value creation a precarious bet.

In *User Experience Research: Discover What Customers Really Want*, a human factors psychologist and an industrial designer have devised a foolproof first phase that addresses the shortcomings of the design thinking process. Based on their forty years of generative research experience in multiple industries, this is the definitive guide to user experience research. This repeatable approach is grounded in six key principles that connects users' desired emotional states to an actionable articulation of an experience. It also provides guidance on creating ideal experience frameworks that communicate clearly with all stakeholders, from business leaders to design practitioners.

User Experience Research: Discover What Customers Really Want is an indispensable, fully illustrated, step-by-step manual for anyone seeking a more predictable pathway to the design of new or improved experiences that users truly desire and would find valuable.



JULY 2022 272PP
978-1-119-88421-7 PB \$35.00 (Japan)
Market Research

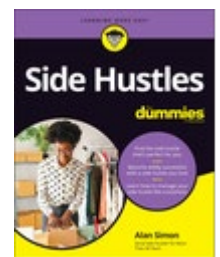
Side Hustles For Dummies

ALAN R. SIMON, CATAWISSA, UNITED STATES

Arizona State University

Get yourself paid and broaden your skillset with this everyday guide to side hustles

The gig economy is growing by leaps and bounds, partly because it's easier to find a flexible work-life balance. Those of us who don't want to leave our full-time jobs, however, can still grab a piece of excitement and extra income for ourselves by starting a side hustle. Or you can bundle your own personalized set of side hustles to replace your full-time job and take full control of your professional life.



Whether you're thinking about driving for Uber, developing apps, or starting an online boutique, *Side Hustles For Dummies* walks you through every step of the way of starting your own side gig. You'll learn about how to structure your new business and keep records, create backup plans, and steer clear of scams. You'll also:

- Find out whether you need investment capital and learn what your new time commitments will be
- Learn to create a business plan and patch any holes in it before you get started
- Discover how to incorporate a vibrant side hustle into your already busy life
- Learn how to adjust your side hustle to meet changes in your personal life and the overall business climate

Side hustles are for everyone, from high school and college students to full-time professionals to retirees. If you've been looking for an excuse to pursue your latest passion, hobby, or interest--or you're just in the market for some extra income--*Side Hustles For Dummies* is the easy-to-read, no-nonsense guide to creating a rewarding and engaging new life.

JULY 2022 UnknownPP
978-1-119-87013-5 PB \$24.99 (Japan)
Small Business & Entrepreneurship

The Value Equation

A Business Guide to Wealth Creation for
Entrepreneurs, Leaders & Investors

CHRISTOPHER H. VOLK

**Discover one of the surest means to
create personal wealth by building a
profitable business**

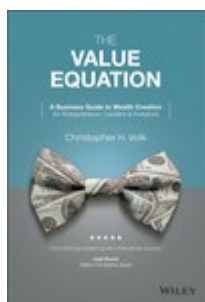
Every now and then, a business book comes along that offers original insights and a fresh perspective. In *The Value Equation: A Business Guide to Creating Wealth for Entrepreneurs and Investors*, veteran executive, entrepreneur, and investor Chris Volk delivers an engaging, straightforward explanation about how businesses work and provide wealth for entrepreneurs and investors. The author's signature approach is centered on his award-winning wealth creation formula in a book designed to simplify complex subjects with math no more complicated than what you learned in middle school.

Readers will become acquainted with the characteristics of successful business models, together with insights into how leaders can improve their own models in ways that generate personal and collective wealth. The author's framework presented in *The Value Equation* is the foundation upon which most of the largest personal fortunes were built.

Chris Volk also provides supplemental materials including interactive Excel spreadsheets, illustrations, and sample corporate financial models on a companion website. There is even a link to an award-winning video series created by Volk that served as his inspiration for the book.

The Value Equation is an indispensable addition to the libraries of anyone interested in growing wealth and capital through business, whether as a business leader, entrepreneur or investor.

JULY 2022 272PP
978-1-119-87564-2 CL \$29.95 (Japan)
Small Business & Entrepreneurship



Future Skills

The 20 Skills and Competencies Everyone Needs to
Succeed in a Digital World

BERNARD MARR

Advanced Performance Institute, Buckinghamshire, UK

The 4th industrial revolution is transforming the world of work. Digitization and technologies such as AI, robotic process automation, extended reality, cloud computing, big data, blockchains, etc. are automating, augmenting and adding jobs. The skills people will need to succeed in this new world of work are very different from the skills that made people succeed in the past.

There is often a misconception that all we need in the future are coding or technology skills. That couldn't be further from the truth. While we clearly need people with technical knowledge, we need individuals that have an understanding of technology, but focus on the skills humans excel at, such as creativity, critical thinking, interpersonal communication and leadership.

Future Skills is about understanding what skills are required to succeed in the future workplace and how to acquire and boost those skills. The book describes the twenty most important skills for the future of work, outlines why they are so valuable, and provide tips and resources to help the reader improve those skills.

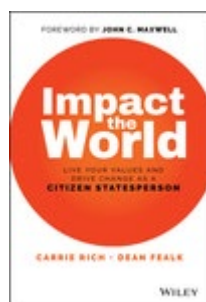
JULY 2022 256PP
978-1-119-87040-1 CL \$27.50 (Japan)
Business & Management Special Topics

Impact the World

Live Your Values and Drive Change As a Citizen Statesperson

CARRIE RICH & DEAN FEALK

Impact the World: Live Your Values and Drive Change As a Citizen Statesperson is your motivational guide to becoming a superpowered individual committed to improving your community--and the world--through your values and actions. You'll discover why the intersection of a renewed civic spirit and new technologies empowering individuals at the local level equates to an unprecedented opportunity to channel global impact.



From poverty and homelessness to violence and corruption, we often see challenges in the world around us and ask, "Why doesn't someone do something?" We look to people with more experience, or people with more influence, or people with more time or resources than ourselves to step up and find answers to some of our biggest problems. But what if we didn't wait for others? What if we stepped up, and looked for ways to employ our skills to solve the biggest and most complex problems of our time?

That's what leaders do. That's what citizen statespeople do.

This book is a call to action. From local to global, from the private sector to government, and to the frontlines of social entrepreneurship, authors Carrie Rich and Dean Fealk explore the benefits and challenges of becoming a citizen statesperson, showing how to pull together disparate threads to solve pressing social, political, and economic challenges. Simultaneously optimistic, inspiring, intensely practical, and engaging, *Impact the World* will earn a valued place in the libraries of civic leaders, activists, social justice advocates, business executives, politicians, volunteers, public servants, and anyone else looking for a way to magnify their influence and impact in any area that matters to them.

JULY 2022 240PP
978-1-119-84891-2 CL \$28.00 (Japan)
Business & Management Special Topics

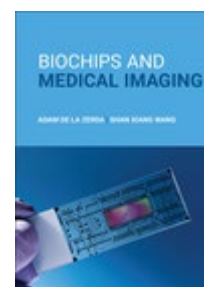
生体医用工学

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.

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

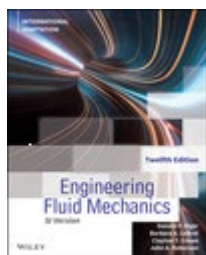
土木工学

Engineering Fluid Mechanics

12th Edition, International Adaptation

DONALD F. ELGER, BARBARA A. LEBRET, CLAYTON T. CROWE
& JOHN A. ROBERSONUniversity of Idaho, Moscow; University of Idaho, Moscow;
Washington State University, Pullman; Emeritus, Washington
State University

Engineering Fluid Mechanics 12th edition guides students from theory to application, emphasizing skills like critical thinking, problem solving and modeling to apply fluid mechanics concepts to solve real-world engineering problems. The essential concepts are presented in a clear and concise format, while abundant illustrations, charts, diagrams, and examples illustrate complex topics and highlight the physical reality of fluid dynamics applications. The text emphasizes on technical derivations, presenting derivations of main equation in a step-by-step manner and explaining their holistic meaning in words. The Wales-Wood Model is used throughout the text to solve numerous example problems. This International Adaptation comes with some updates that enhance and expand certain concepts and some organizational changes. The edition provides a wide variety of new and updated solved problems, real-world engineering examples, and end-of-chapter homework problems and has been completely updated to use SI units. The text, though written from civil engineering perspective, adopts an interdisciplinary approach which makes it suitable for engineering students of all majors who are taking a first or second course in fluid mechanics.

JULY 2022 608PP
978-1-119-82073-4 PB \$57.99 (Japan)
HYDROLOGY (CIVIL ENGINEERING)**Continuous Emission Monitoring**

3rd Edition

JAMES A. JAHNKE

The new edition of the only single-volume reference on both the regulatory and technical aspects of U.S. and international continuous emission monitoring (CEM) systems



Continuous Emission Monitoring presents clear, accurate, and up-to-date information on the technical and regulatory issues that affect the design, application, and certification of CEM systems installed in power plants, cement plants, pulp and paper mills, smelters, and other stationary sources. Written by an international expert in the field, this classic reference guide covers U.S. and international CEM regulatory requirements, analytical techniques, operation and maintenance of CEM instrumentation, and more.

The fully revised Third Edition remains the most comprehensive source of CEM information available, featuring three brand-new chapters on mercury monitoring, the reporting and -certification of industrial greenhouse gas emissions, and the instrumentation and methods used to measure air toxic compounds including dioxins, furans, and hydrogen chloride. Thoroughly updated chapters discuss topics such as flow rate monitors, new EPA regulations, instrumentation and calibration techniques, CEM system control and data acquisition, and extractive system design.

Continuous Emission Monitoring, Third Edition is an essential resource for professionals responsible for ensuring regulatory compliance, managers and technicians who purchase, operate, and maintain CEM instrumentation, regulatory personnel who write and enforce operating permits, and instructors and students in upper-level environmental engineering programs.

JULY 2022 464PP
978-1-119-43398-9 CL \$140.00 (Japan)
ENVIRONMENTAL IMPACT

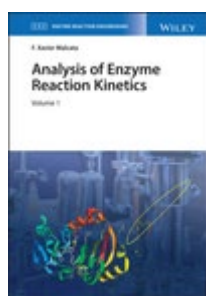
化学工学

Analysis of Enzyme Reaction Kinetics, 2 Volume Set

F. XAVIER MALCATA

Instituto Superior da Maia

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



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

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

SERIES: ENZYME REACTION ENGINEERING

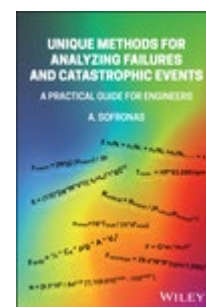
JULY 2022 1472PP
978-1-119-49024-1 CL \$425.00 (Japan)
General & Introductory Chemical Engineering

Unique Methods for Analyzing Failures and Catastrophic Events: A Practical Guide for Engineers

ANTHONY SOFRONAS

A practical and accessible approach to machinery troubleshooting

Unique Methods for Analyzing Failures and Catastrophic Events is designed to assist practicing engineers address design and fabrication problems in manufacturing equipment to support safe process operation. Throughout the book, a wealth of real-world case studies and easy-to-understand illustrated examples demonstrate how to use simplified failure analysis methods to produce insights for a wide range of engineering problems.



Dr. Anthony Sofronas draws from his five decades of industry experience to help engineers better understand the science behind a particular problem, evaluate the failure analysis of an outside consultant, and recommend the best path forward to management. The author distills sophisticated engineering analysis approaches into compact, user-friendly methodologies that can be easily applied to the readers' own situations to avoid costly failures. Each chapter includes a thorough summary of the topic, relatable technical examples, and a concluding section with key takeaways and expert tips and advice. This invaluable guide:

- Helps readers make better decisions while solving complex engineering problems
- Provides numerous illustrated examples from engineering and science that can be used to develop real-world solutions
- Features detailed descriptions of both basic and advanced engineering analysis techniques
- Covers essential technical subjects that facilitate safe facility design and effective troubleshooting

Unique Methods for Analyzing Failures and Catastrophic Events: An Illustrated Guide for Engineers is a must-have for chemical, petroleum, and mechanical engineers, reliability managers and technicians, design contractors, and maintenance workers working in process industries.

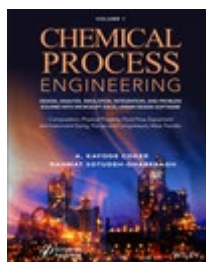
JULY 2022 336PP
978-1-119-74825-0 CL \$125.00 (Japan)
General & Introductory Chemical Engineering

Chemical Process Engineering Volume 1

Design, Analysis, Simulation, Integration, and Problem Solving with Microsoft Excel-UniSim Software for Chemical Engineers Computation, Physical Property, Fluid Flow, Equipment and Instrument Sizing

RAHMAT SOTUDEH-GHAREBAGH & A. KAYODE COKER

This first new volume in a two-volume set explores and describes integrating new tools for engineering education and practice for better utilization of the existing knowledge on process design. Useful not only for students, professors, scientists and practitioners, especially process, chemical, mechanical and metallurgical engineers, it is also a valuable reference for other engineers, consultants, technicians and scientists concerned about various aspects of industrial design.



The text can be considered as a complementary text to process design for senior and graduate students as well as a hands-on reference work or refresher for engineers at entry level. The contents of the book can also be taught in intensive workshops in the oil, gas, petrochemical, biochemical and process industries.

The book provides a detailed description and hands-on experience on process design in chemical engineering, and it is an integrated text that focuses on practical design with new tools, such as Excel spreadsheets and UniSim simulation software.

Written by two industry and university's most trustworthy and well-known authors, this book is the new standard in chemical, biochemical, pharmaceutical, petrochemical and petroleum refining. Covering design, analysis, simulation, integration, and, perhaps most importantly, the practical application of Microsoft Excel-UniSim software, this is the most comprehensive and up-to-date coverage of all of the latest developments in the industry. It is a must-have for any engineer or student's library.

JULY 2022 544PP
978-1-119-51018-5 CL \$295.00 (Japan)
Process Engineering

Chemical Process Engineering Volume 2

Design, Analysis, Simulation, Integration, and Problem Solving with Microsoft Excel-UniSim Software for Chemical Engineers, Heat Transfer and Integration, Process Safety, and Chemical Kinetics

EDITOR A. KAYODE COKER & EDITOR RAHMAT SOTUDEH-GHAREBAGH

This new two-volume set explores and describes integrating new tools for engineering education and practice for better utilization of the existing knowledge on process design. Useful not only for students, university professors, and practitioners, especially process, chemical, mechanical and metallurgical engineers, it is also a valuable reference for other engineers, consultants, technicians and scientists concerned about various aspects of industrial design.

The text can be considered as a complementary to process design for senior and graduate students as well as a hands-on reference work or refresher for engineers at entry level. The contents of the book can also be taught in intensive workshops in the oil, gas, petrochemical, biochemical and process industries.

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JULY 2022 944PP
978-1-119-85399-2 CL \$295.00 (Japan)
Process Engineering

化学

Managing Cybersecurity in the Process Industries

A Risk-based Approach

CCPS (CENTER FOR CHEMICAL PROCESS SAFETY)

The chemical process industry is a rich target for cyber attackers who are intent on causing harm. Current risk management techniques are based on the premise that events are initiated by a single failure and the succeeding sequence of events is predictable. A cyberattack on the Safety, Controls, Alarms, and Interlocks (SCAI) undermines this basic assumption. Each facility should have a Cybersecurity Policy, Implementation Plan and Threat Response Plan in place. The response plan should address how to bring the process to a safe state when controls and safety systems are compromised. The emergency response plan should be updated to reflect different actions that may be appropriate in a sabotage situation. IT professionals, even those working at chemical facilities are primarily focused on the risk to business systems. This book contains guidelines for companies on how to improve their process safety performance by applying Risk Based Process Safety (RBPS) concepts and techniques to the problem of cybersecurity.



JULY 2022 480PP
978-1-119-86178-2 CL \$165.00 (Japan)
Process Engineering

Analytical Testing for the Pharmaceutical GMP Laboratory

KIM HUYNH-BA

Analytical Chemistry: An Introduction to the Pharmaceutical GMP Laboratory

presents a thorough overview of the pharmaceutical regulations, working processes, and drug development best practices used to maintain the quality and integrity of medicines. With a focus on smaller molecular weight drug substances and products, the book provides the knowledge necessary for establishing the pharmaceutical laboratory to support Quality Systems while maintaining compliance with Good Manufacturing Practices (GMP) regulations.



Addressing the principal activities and regulatory challenges of analytical testing in the development and manufacturing of pharmaceutical drug products, this authoritative resource:

- Describes the structure, roles, core guidelines, and GMP regulations of the FDA and ICH.
- Covers the common analytical technologies used in pharmaceutical laboratories, including examples of analytical techniques used for the release and stability testing of drugs.
- Examines control strategies established from quality systems supported by real-world case studies.
- Explains the use of dissolution testing for products such as extended-release capsules, aerosols, and inhalers.
- Discusses good documentation and data reporting practices, stability pr
- Includes calculations, application examples, and illustrations to assist readers in day-to-day laboratory operations.

JULY 2022 416PP
978-1-119-12091-9 CL \$175.00 (Japan)
Analytical Chemistry

Handbook of Forensic Medicine

2nd Edition

EDITOR BURKHARD MADEA

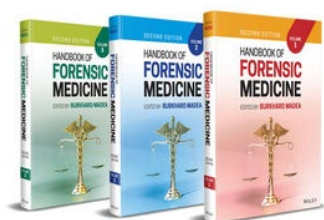
University of Bonn

The gold standard in forensic medicine references

In the Second Edition of *Handbook of Forensic Medicine*, editor Burkhard Madea brings to the reader, through an global team of expert contributors, a comprehensive and international approach to forensic medicine. In addition to offering new coverage of crime scene investigation, blood stain pattern analysis, terrorist attacks, fire disasters, new psychoactive substances, and molecular pathology, the book provides a thorough review of all aspects of forensic medicine.

The chapters represent all aspects of quality control and best practice and include case studies throughout to help illustrate the concepts discussed within and emphasize the links between diverse subdisciplines. Specialists engaged in daily casework will find that aspects of routine analysis are addressed in each chapter.

Handbook of Forensic Medicine, Second Edition also covers the latest developments in forensic molecular biology, forensic toxicology, molecular pathology, and immunohistochemistry. This is a must-read resource for every specialist in forensic medicine, toxicology, and haemogenetics, as well as anyone expected to prepare a report for court proceedings. It's also an ideal reference for lawyers and law students.



JULY 2022 1500PP
978-1-119-64855-0 CL \$425.00 (Japan)
FORENSICS

Nanotechnology for Environmental Remediation

EDITOR SABU THOMAS, EDITOR MERIN SARA THOMAS & EDITOR LALY A. POTHEN

Mahatma Gandhi University

Comprehensive resource on using nanomaterials to alleviate environmental pollution

Contaminated land, soil and water pose a threat to the environment and health. These sites require immediate action in terms of assessing pollution and new remediation strategies. *Nanotechnology for Environmental Remediation* helps readers understand the potential of nanotechnology in resolving the growing problem of environmental contamination.

The specific aim of this book is to provide comprehensive information relating to the progress in the development of functional nanomaterials and nanocomposites which are used for the environmental remediation of a variety of contaminants. The work deals with the different aspects of nanotechnology in water, air and soil contamination and presents the recent advances with a focus on remediation.

Chemists and biotechnologists can use *Nanotechnology for Environmental Remediation* as a comprehensive reference work for thoroughly understanding this new type of technology and why it is so important when considering environmental remediation efforts. Due to the practical application of nanotechnologies, environmental organizations and agencies can also both utilize the work to explore new and more effective ways of doing things, both now and into the future as nanotechnology becomes more common.



JULY 2022 480PP
978-3-527-34927-2 CL \$175.00 (Japan)
Environmental Chemistry

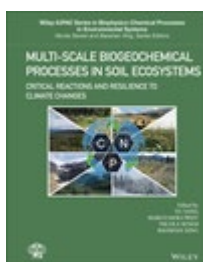
Multi-Scale Biogeochemical Processes in Soil Ecosystems

Critical Reactions and Resilience to Climate Changes

EDITOR YU YANG, EDITOR MARCO KEILUWEIT, EDITOR NICOLA SENESI & EDITOR BAOSHAN XING

Provides a state-of-the-art overview of research in soil biogeochemical processes and strategies for greenhouse gas mitigation under climate change

Food security and soil health for the rapidly growing human population are threatened by increased temperature and drought, soil erosion and soil quality degradation, and other problems caused by human activities and a changing climate. Because greenhouse gas emission is the primary driver of climate change, a complete understanding of the cycles of carbon and major nutritional elements is critical for developing innovative strategies to sustain agricultural development and environmental conservation.



Multi-Scale Biogeochemical Processes in Soil Ecosystems: Critical Reactions and Resilience to Climate Changes is an up-to-date overview of recent research in soil biogeochemical processes and applications in ecosystem management. Organized into three parts, the text examines molecular-scale processes and critical reactions, presents ecosystem-scale studies of ecological hotspots, and discusses large-scale modeling and prediction of global biogeochemical cycles.

Multi-Scale Biogeochemical Processes in Soil Ecosystems: Critical Reactions and Resilience to Climate Changes is essential reading for scientists, engineers, agronomists, chemists, biologists, academic researchers, consultants, and other professionals whose work involves the nutrient cycle, ecosystem management, and climate change.

SERIES: WILEY SERIES SPONSORED BY IUPAC IN BIOPHYSICO-CHEMICAL PROCESSES IN ENVIRONMENTAL SYSTEMS

JULY 2022 352PP
978-1-119-48034-1 CL \$225.00 (Japan)
Soil & Geochemistry

Aerosol Technology

Properties, Behavior, and Measurement of Airborne Particles, 3rd Edition

WILLIAM C. HINDS & YIFANG ZHU

UCLA; UCLA

An in-depth and accessible treatment of aerosol theory and its applications

The Third Edition of *Aerosol Technology: Properties, Behavior, and Measurement of Airborne Particles* delivers a thorough and authoritative exploration of modern aerosol theory and its applications. The book offers readers a working knowledge of the topic that

reflects the numerous advances that have been made across a broad spectrum of aerosol-related application areas. New updates to the popular text include treatments of nanoparticles, the health effects of atmospheric aerosols, remote sensing, bioaerosols, and low-cost sensors. Additionally, readers will benefit from insightful new discussions of modern instruments.

The authors maintain a strong focus on the fundamentals of the discipline, while providing a robust overview of real-world applications of aerosol theory. Perfect for senior undergraduate and junior graduate students of science and technology, *Aerosol Technology: Properties, Behavior, and Measurement of Airborne Particles* will also earn a place in the libraries of professionals working in industrial hygiene, air pollution control, climate science, radiation protection, and environmental science.



AUGUST 2022 432PP
978-1-119-49404-1 CL \$150.00 (Japan)
CHEMICAL AND ENVIRONMENTAL HEALTH AND SAFETY

Carbon Monoxide in Drug Discovery

Basics, Pharmacology, and Therapeutic Potential

BINGHE WANG & LEO E. OTTERBEIN

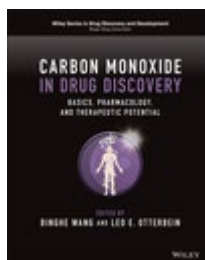
Georgia State University, Atlanta

An insightful reference for the latest physiological and therapeutic studies of carbon monoxide

In *Carbon Monoxide in Drug Discovery: Basics, Pharmacology, and Therapeutic Potential*, a team of distinguished authors delivers foundational knowledge, the latest research, and remaining challenges regarding the physiological roles and therapeutic efficacy of carbon monoxide (CO). The editors have included a broad selection of resources from leading experts in the field that discuss the background and physiological roles of CO, a variety of delivery forms including CO prodrugs using benign carriers, CO sensing, therapeutic applications, and clinical trials.

Organized by topic to allow each chapter to be read individually, the book covers a wide range of topics, from physiological and patho-physiological mechanisms at the molecular level to clinical applications for multiple disease processes.

The editors of *Carbon Monoxide in Drug Discovery* have created a compelling argument for shifting the accepted understanding of CO from poison to bioactive molecule with enormous clinical benefits. Perfect for professors, graduate students, and postdocs in the fields of biology, pharmacology, immunology, medicinal chemistry, toxicology, and drug delivery, *Carbon Monoxide in Drug Discovery: Basics, Pharmacology, and Therapeutic Potential* is also an invaluable resource for industrial scientists in these areas.



SERIES: WILEY SERIES IN DRUG DISCOVERY AND DEVELOPMENT

JULY 2022 608PP
978-1-119-78340-4 CL \$250.00 (Japan)
Pharmaceutical & Medicinal Chemistry

Flow and Microreactor Technology in Medicinal Chemistry

EDITOR ESTHER ALZA, SERIES EDITOR RAIMUND MANNHOLD,
SERIES EDITOR HELMUT BUSCHMANN & SERIES EDITOR JÖRG
HOLENZ

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

Learn to master a powerful technology to enable a faster drug discovery workflow

The ultimate dream for medicinal chemists is the ability to synthesize new drug-like compounds with the push of a button. The key to synthesizing chemical compounds more quickly and accurately lies in computer-controlled technologies that can be optimized by machine learning. Recent developments in computer-controlled automated syntheses that rely on miniature flow reactors—with integrated analysis of the resulting products—provide a workable technology for synthesizing new chemical substances very quickly and with minimal effort.

In *Flow and Microreactor Technology in Medicinal Chemistry*, early adopters of this ground-breaking technology describe its current and potential uses in medicinal chemistry. Based on successful examples of the use of flow and microreactor synthesis for drug-like compounds, the book introduces current as well as emerging uses for automated synthesis in a drug discovery context.

Flow and Microreactor Technology in Medicinal Chemistry is a valuable practical reference for medicinal chemists, organic chemists, and natural products chemists, whether they are working in academia or in the pharmaceutical industry.



SERIES: METHODS & PRINCIPLES IN MEDICINAL CHEMISTRY

JULY 2022 336PP
978-3-527-34689-9 CL \$175.00 (Japan)
Pharmaceutical & Medicinal Chemistry

Oral Drug Delivery for Modified Release Formulations

EDITOR EDMUND S. KOSTEWICZ, EDITOR MARIA VERTZONI,
EDITOR HEATHER A. E. BENSON & EDITOR MICHAEL S. ROBERTS

Provides pharmaceutical development scientists with a detailed reference guide for the development of MR formulations

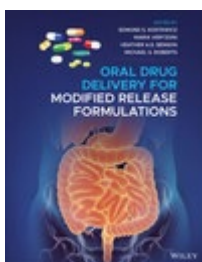
Oral Drug Delivery for Modified Release Formulations is an up-to-date review of the key aspects of oral absorption from modified-release (MR) dosage forms.

This edited volume provides in-depth coverage of the physiological factors that influence drug release and of the design and evaluation of MR formulations.

Divided into three sections, the book begins by describing the gastrointestinal tract (GIT) and detailing the conditions and absorption processes occurring in the GIT that determine a formulation's oral bioavailability. The second section explores the design of modified release formulations, covering early drug substance testing, the biopharmaceutics classification system, an array of formulation technologies that can be used for MR dosage forms, and more. The final section focuses on in vitro, in silico, and in vivo evaluation and regulatory considerations for MR formulations. Topics include biorelevant dissolution testing, preclinical evaluation, and physiologically-based pharmacokinetic modelling (PBPK) of in vivo behaviour.

Oral Drug Delivery for Modified Release Formulations is an invaluable reference and guide for researchers, industrial scientists, and graduate students in general areas of drug delivery including pharmaceuticals, pharmaceutical sciences, biomedical engineering, polymer and materials science, and chemical and biochemical engineering.

JULY 2022 496PP
978-1-119-77269-9 CL \$225.00 (Japan)
Drug Formulation & Delivery



Organic Reactions, Volume 109

EDITOR-IN-CHIEF P. ANDREW EVANS

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

The 109th volume in this series for organic chemists in academia and industry presents critical discussions of widely used organic reactions or particular steps of a reaction. The material is treated from a preparative viewpoint, with emphasis on limitations, interfering influences, effects of structure and the selection of experimental techniques. The work includes tables that contain all possible examples of the reaction under consideration. Detailed procedures illustrate the significant modifications of each method.



SERIES: ORGANIC REACTIONS

JULY 2022 1136PP
978-1-119-83208-9 CL \$495.00 (Japan)
Organic Chemistry

Upconverting Nanoparticles

From Fundamentals to Applications

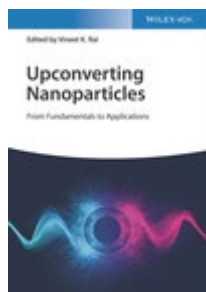
EDITOR VINEET K. RAI

Modern learning resource providing broad coverage of the rapidly-advancing field of upconverting nanoparticles

This modern reference explains photon upconversion technology using nanoparticles from first principles to novel and future applications in imaging, sensing, catalysis, energy technology, biomedicine, and many other areas. Expert authors discuss both established and novel materials and applications, going far beyond the coverage of previously published books on the subject. Key topics covered in the book include:

- Synthesis, characterization, and basic properties of nanoparticles with photon-upconverting properties
- New types of upconverting nanoparticles, including transition metal- and rare earth-doped materials, metal-organic frameworks, core/shell particles, and surface-modified particles
- Current and emerging application areas for upconverting nanoparticles, including heating, lighting, sensing, and detection
- Biomedical uses of nanoparticles, including photodynamic therapy

Photon upconversion using nanoparticles has opened the door to a new universe of light-powered technology. This book is a key resource for scientists, physicists, and chemists across a wide range of disciplines who wish to master the theory, methods and applications of this powerful new technology.



JULY 2022 528PP
978-3-527-34965-4 CL \$187.84 (Japan)
Photochemistry

Green Stormwater Infrastructure Fundamentals and Design

ALLEN P. DAVIS, WILLIAM F. HUNT & ROBERT G. TRAVER

The protection of our aquatic resources is growing in importance as the effects of climate change and continued urbanization are felt throughout the world. While most rain that falls onto vegetated spaces infiltrates the soil, rain that falls onto impervious surfaces will not, increasing downstream flooding and erosion and causing impaired water quality. Impervious surfaces such as road infrastructure, rooftops, and parking areas all increase runoff and mobilize many pollutants that have deposited on these surfaces that are then carried into our waterways. Proper management of this stormwater through green infrastructure is essential to address these challenges and reduce the environmental and ecological impacts brought about by this runoff.



This book brings into focus resilient stormwater control measures (SCMs) for the reduction of stormwater flows and associated pollutants that can detrimentally impact our local environmental and ecological systems. These interventions are green infrastructure based, utilizing natural hydrologic and environmental features using soil and vegetation to manage stormwater. These technologies include water harvesting, bioretention and bioinfiltration, vegetated swales and filter strips, permeable pavements, sand filters, green roofs, and stormwater wetlands, among others. The basic science and engineering of these technologies is discussed, including performance information and best maintenance practices.

Green Stormwater Infrastructure is an ideal resource for environmental, civil, and biological engineers and environmental scientists in the consulting field. Landscape architects, managers and engineers of watershed districts, and members of federal, state, and local governmental agencies—especially those in the departments of environmental protection and transportation—will find many uses for this guidebook. It will also be of interest to professors, upper-level undergraduates and graduate students in environmental, civil, and biological engineering programs.

JULY 2022 528PP
978-1-118-59019-5 CL \$135.00 (Japan)
Sustainable Chemistry & Green Chemistry

コンピューティング

Office 2021 for Macs For Dummies

BOB LEVITUS, AUSTIN, UNITED STATES & DWIGHT SPIVEY, MOBILE, UNITED STATES

Turn your Mac into a productivity powerhouse with Office 2021!

Long gone are the days when Microsoft's powerful office suite was just for Windows users. Mac enthusiasts are also able to pop open ubiquitous apps like Word, Excel, and PowerPoint on their preferred desktop or laptop! But if you're new to Microsoft Office on the Mac--or you just need a hand with some of its latest features--you should check out *Office 2021 For Macs For Dummies*.



This handy guide will show you how to conquer the essentials of all the key apps that make Office 2021 such a productivity booster. You'll also discover:

- Brand-new features, like an improved dark mode and better accessibility capabilities
- How to share documents directly in a collaborative setting How Microsoft's Text Predictions work in various apps in Office 2021

Ideal for Mac-lovers who can't escape the lure of Microsoft's iconic office software, *Office 2021 For Macs For Dummies* is a can't-miss resource that will help you successfully blend the reliable computing power of your Mac or MacBook with the productivity power of Microsoft Office.

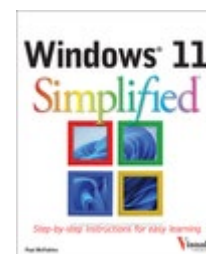
JULY 2022 432PP
978-1-119-84044-2 PB \$29.99 (Japan)
OFFICE PRODUCTIVITY - MICROSOFT (GENERAL & OFFICE SUITE)

Windows 11 Simplified

PAUL MCFEDRIES, TORONTO, ONTARIO, CANADA

Learn Windows 11 quickly, easily, and with expert help from a tech education master

Windows 11 Simplified is your from-scratch beginner's guide to the ins and outs of the latest version of Windows. It's fully updated to include all the coolest new features of Windows 11 and offers a highly visual roadmap -- complete with tons of screenshots and illustrations -- to Windows 11 mastery. You'll get up to speed on the basic, and not-so-basic, features of Windows 11 with plain-English instructions and step-by-step screenshots that walk you through every technique you need to know to make Windows 11 do what *you* want it to do.



You'll learn to navigate the user interface, work with and manage files, create user accounts, and practice using the tools that make Windows 11 the most user-friendly and powerful version of the famous operating system yet. You'll also discover how to:

- Master the basics, as well as a bunch of power-user tools, with easy-to-follow instructions
- Learn your way around the interface, File Explorer, the Settings app, and more
- Navigate the web, send emails, access online media, and chat with friends and family
- Customize windows to look and feel exactly the way you want it to

With the right help, learning a new operating system can be fun, straightforward, and exciting. This book is perfect for everyone from those with no Windows experience at all to users of previous versions who just need a heads-up on the latest features. If you're ready to become a Windows 11 master, *Windows 11 Simplified* is the easiest and fastest way to do it.

SERIES: SIMPLIFIED

JULY 2022 288PP
978-1-119-89308-0 PB \$25.00 (Japan)
OPERATING SYSTEMS / MICROSOFT WINDOWS

コンピュータサイエンス

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.

JULY 2022 384PP
978-1-119-69788-6 PB \$45.00 (Japan)
Networking / Windows NT & Windows 2000

Operating AI

Bridging the Gap Between Technology and Business

ULRIKA JAGARE

A holistic and real-world approach to operationalizing artificial intelligence in your company

In *Operating AI*, Director of Technology and Architecture at Ericsson AB, Ulrika Jägar, delivers an eye-opening new discussion of how to introduce your organization to artificial intelligence by balancing data engineering, model development, and AI operations. You'll learn the importance of embracing an AI operational mindset to successfully operate AI and lead AI initiatives through the entire lifecycle, including key aspects of security, privacy, and data rights.



In the book, you'll also discover:

How to reduce the risk of entering bias in our artificial intelligence solutions

- The importance of efficient and reproducible data pipelines, including how to manage your company's data
- An operational perspective on the development of AI models using the MLOps (Machine Learning Operations) approach, including how to deploy, run and monitor models and ML pipelines in production, that generates value in the real world

With a strong emphasis on deployment and operations of trustworthy and reliable AI solutions that operate well in the real world--and not just the lab--*Operating AI* is a must-read for business leaders looking for ways to operationalize an AI business model that actually makes money, from the concept phase to running in a live production environment.

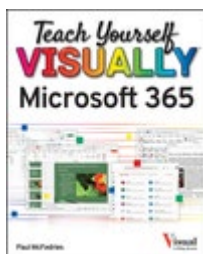
JULY 2022 272PP
978-1-119-83319-2 PB \$40.00 (Japan)
Programming & Software Development

Teach Yourself VISUALLY Microsoft 365

PAUL MCFEDRIES, TORONTO, ONTARIO, CANADA

A fast-paced, useful, and easy introduction to Microsoft 365

For those who need the *show* as well as the *tell*, *Teach Yourself VISUALLY Microsoft 365* is the visual walkthrough to Microsoft's latest suite of office products that will get you up-to-speed faster than any other resource on the market. This book offers image- and screenshot-rich tutorials alongside step-by-step instructions so you can see what you need to do to make the most of Microsoft 365.



From getting a grip on the most basic Microsoft 365 functions to the advanced, new features known only by power users, the book provides you with the tools you need to make your work more streamlined and efficient. You'll also get:

- Up to date--and visually supported--guidance on the major Office apps that are part of Microsoft 365: Word, Excel, PowerPoint, Outlook, and Access
- Full-color, two-page tutorials that get you up and running fast
- Easy-to-read instructions and stepwise advice to accompany the informative and crystal-clear images

Ideal for people using Microsoft 365 for the very first time, *Teach Yourself VISUALLY Microsoft 365* is also a can't-miss resource for long-time users of the software suite who need an introduction to the latest version and Office veterans seeking a refresher on what Microsoft 365 is capable of.

SERIES: TEACH YOURSELF VISUALLY (TECH)

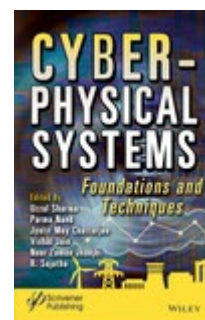
JULY 2022 352PP
978-1-119-89351-6 PB \$30.00 (Japan)
COMPUTER HARDWARE

Cyber-Physical Systems

Foundations and Techniques

EDITOR UZZAL SHARMA, EDITOR PARMA NAND, EDITOR JYOTIR MOY CHATTERJEE, EDITOR VISHAL JAIN, EDITOR NOOR ZAMAN JHANJHI & EDITOR R. SUJATHA

Cyber-Physical Systems (CPS) is the interconnection of the virtual or cyber and the physical system. It is realized by combining three well-known technologies namely "Embedded Systems", "Sensors and actuators" and "Network and communication System" or IoT. These technologies are combined to form a system known as CPS. In CPS the physical process and information processing are so tightly connected that it is hard to distinguish the individual contribution of each process from the output. Some of the exciting innovations such as Autonomous cars, Quadcopter, space ships, sophisticated medical machinery fall under CPS. The scope of CPS is tremendous. In CPS, we can see the applications of various emerging technologies such as Artificial Intelligence, Internet of Things (IoT), Machine Learning (ML), Deep Learning (DL), Big Data (BD), Robotics, Quantum Technology, etc. Almost in all the sectors whether it is education, health, human resource development, skill improvement, Startup strategy up-gradation, etc., we see an enhancement in the quality output, which is because of the emergence of CPS into the field. The CPS is considered the upcoming Industry revolution. The book covers the different aspects associated with the CPS, such as algorithm, application areas, improvement of existing technology to name a few.



JULY 2022 UnknownPP
978-1-119-83619-3 CL \$225.00 (Japan)
Artificial Intelligence

コミュニケーション

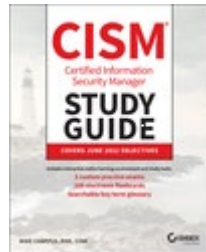
CISM Certified Information Security Manager Study Guide

MIKE CHAPPLE

University of Notre Dame

Sharpen your information security skills and grab an invaluable new credential with this unbeatable study guide

As cybersecurity becomes an increasingly mission-critical issue, more and more employers and professionals are turning to ISACA's trusted and recognized Certified Information Security Manager qualification as a tried-and-true indicator of information security management expertise.



In Wiley's *Certified Information Security Manager (CISM) Study Guide*, you'll get the information you need to succeed on the demanding CISM exam. You'll also develop the IT security skills and confidence you need to prove yourself where it really counts: on the job.

Chapters are organized intuitively and by exam objective so you can easily keep track of what you've covered and what you still need to study. You'll also get access to a pre-assessment, so you can find out where you stand before you take your studies further.

Sharpen your skills with Exam Essentials and chapter review questions with detailed explanations in all four of the CISM exam domains: Information Security Governance, Information Risk Management, Information Security Program Development and Management, and Information Security Incident Management.

Perfect for anyone prepping for the challenging CISM exam or looking for a new role in the information security field, the *Certified Information Security Manager (CISM) Study Guide* is an indispensable resource that will put you on the fast track to success on the test and in your next job.

JULY 2022 432PP
978-1-119-80193-1 PB \$60.00 (Japan)
Computer Security & Cryptography

The Ethical Journalist

Making Responsible Decisions in the Digital Age

3rd Edition

GENE FOREMAN, DANIEL R. BIDDLE, EMILIE LOUNSBERRY & RICHARD G. JONES

Pennsylvania State University, USA

Praise for the Third Edition of The Ethical Journalist

"A riveting examination of journalism ethics, updated for the seismic change that is now an industry constant. *The Ethical Journalist* is written to fortify journalism students, but real-life examples of everything from faked photographs to reporting on presidential lies make it valuable to all of us who care about the news."

ANN MARIE LIPINSKI, CURATOR OF THE NIEMAN FOUNDATION AT HARVARD UNIVERSITY AND FORMER EDITOR OF THE CHICAGO TRIBUNE



The third edition of *The Ethical Journalist* is a comprehensive examination of current issues in the field of journalism ethics, researched and written by four journalists with experience in both the newsroom and the classroom. It gives students and professionals the tools they need to navigate the challenges of journalism today, first explaining the importance of ethics in journalism and then putting a decision-making strategy to work. The text is supplemented by case studies and essays, and two companion websites provide additional materials for educators and a forum for all users to discuss new topics in journalism ethics as they arise.

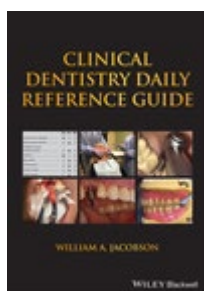
AUGUST 2022 416PP
978-1-119-77747-2 PB \$64.95 (Japan)
JOURNALISM

歯学

Clinical Dentistry Daily Reference Guide

WILLIAM A. JACOBSON

Clinical dentistry involves the practice of preventing, diagnosing, and treating patients' oral health conditions. *Clinical Dentistry Daily Reference Guide* is a one-stop resource loaded with critical information for day-to-day decision making regarding a myriad of clinical scenarios. This invaluable resource saves time by eliminating the need to search through websites, textbooks, and phone apps to find answers.



This book offers step-by-step assistance on oral cancer screening, radiographic interpretation, treatment planning, preventive dentistry, periodontics, operative dentistry, endodontics, oral surgery, toothaches, crown and bridge, dentures, partials, implant crowns, occlusal guards, pediatric dentistry, nitrous sedation, and more.

This comprehensive guide:

- * Provides quick access to information in an easy-to-read bulleted format
 - * Includes hundreds of high-quality clinical images, illustrations, and tables
 - * Answers real-life patient questions
 - * Contains procedural steps including post-operative instructions, lab prescriptions, troubleshooting, and clinical pearls
 - * Features alphabetized medical conditions and treatment modifications, evidence-based guidelines including the dental traumatology guidelines, tables of common medications converted to pediatric dosages, trigger point charts, and more.
 - * Helps dentists gain confidence in their decision making
- Clinical Dentistry Daily Reference Guide* is a must-have book for all dental students and practicing dentists, both new and seasoned. Other dental professionals that will benefit from this book include dental educators, expanded function dental assistants, and dental hygienists.

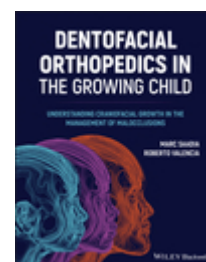
JULY 2022 640PP
978-1-119-69071-9 PB \$164.99 (Japan)
Introductions to Dentistry

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.

JULY 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

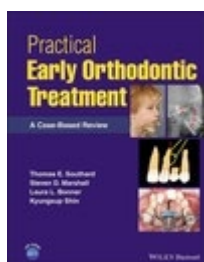
University of Iowa, Iowa City, IA, USA; University of Iowa, Iowa City, IA, USA; University of Iowa, Iowa City, IA, USA

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.

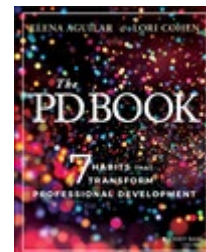


AUGUST 2022 928PP
978-1-119-79359-5 CL \$249.99
Orthodontics

The PD Book**7 Habits that Transform Professional Development**

ELENA AGUILAR

Develop transformational professional development programs that build and sustain your school community



In *The PD Book*, bestselling author Elena Aguilar and co-author Lori Cohen offer seven habits--and a wealth of practical tools--that help you transform professional development. In this book, you'll learn how to inspire adult learners, the importance of having clear purpose, and how to navigate power dynamics in a group. You'll also learn a new way to plan PD that allows you to attend to details and be a responsive facilitator. The dozens of tips and tricks, anecdotes and research, and tools and resources will enable you to create the optimal conditions for learning.

You'll also:

- Craft effective outcomes for your adult students and design an agenda that aligns with adult learning principles
- Use storytelling as a tool for effective workshops and trainings
- Plan backwards from evaluations and outcomes to create powerful and lasting educational experiences

Ideal for educational leaders and administrators, professional development facilitators, coaches, and positional leaders in both K-12 and higher education, *The PD Book* is an incisive resource offering concrete strategies for educators at all levels.

JULY 2022 304PP
978-1-119-84335-1 PB \$35.00 (Japan)
Teacher Education (K-12)

電気電子工学

The Dreamkeepers

Successful Teachers of African American Children

3rd Edition

GLORIA LADSON-BILLINGS, MADISON, UNITED STATES

University of Wisconsin, Madison

Discover how to give African American children the education they deserve with this updated new resource

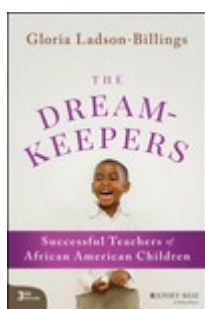
In the newly revised Third Edition of *The Dreamkeepers: Successful Teachers of African American Children*, distinguished professor Dr. Gloria

Ladson-Billings delivers an encouraging exploration of the future of education for African American students. She describes eight exemplary teachers, all of whom differ in their personal style and methods, who share an approach to teaching that affirms and strengthens cultural identity.

In this mixture of scholarship and storytelling, you'll learn how to create intellectually rigorous and culturally relevant classrooms that have the power to improve the lives of all children. This important book teaches:

- What successful teachers do, don't do, and what we can learn from them
- Why it's so important for teachers to work with the unique strengths each student brings to the classroom
- How to improve educational outcomes for African American children across the country

Perfect for teachers, parents, school leaders, and administrators, *The Dreamkeepers* will also earn a place in the libraries of school boards, professors of education, urban sociologists, and casual readers with an interest in issues of race and education.



JULY 2022 UnknownPP
978-1-119-79193-5 PB \$24.95 (Japan)
DIVERSITY & CULTURE (K-12)

Smart Manufacturing

The Lean Six Sigma Way

ANTHONY TARANTINO, MOUNTAINVIEW, UNITED STATES

Explore the dramatic changes brought on by the new manufacturing technologies of Industry 4.0

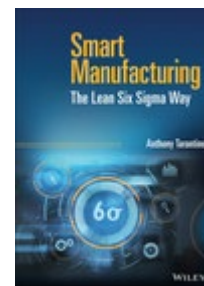
In *Smart Manufacturing, The Lean Six Sigma Way*, Dr. Anthony Tarantino delivers an insightful and eye-opening exploration of the ways the Fourth Industrial Revolution is dramatically changing the way we manufacture products across the world and especially how it will revitalize manufacturing in North America and Europe.

The author examines the role and impact of a variety of new Smart technologies including industrial IoT, computer vision, mobile/edge computing, 3D printing, robots, big data analytics, and the cloud. He demonstrates how to apply these new technologies to over 20 continuous improvement/Lean Six Sigma tools, greatly enhancing their effectiveness and ease of use.

The book also discusses the role Smart technologies will play in improving:

- Career opportunities for women in manufacturing
- Cyber security, supply chain risk, and logistics resiliency
- Workplace health, safety, and security
- Life on the manufacturing floor
- Operational efficiencies and customer satisfaction

Perfect for anyone involved in the manufacturing or distribution of products in the 21st century, *Smart Manufacturing, The Lean Six Sigma Way* belongs in the libraries of anyone interested in the intersection of technology, commerce, and physical manufacturing.



JULY 2022 464PP
978-1-119-84661-1 CL \$65.00 (Japan)
Component Manufacturing

Industry 4.0 Vision for the Supply of Energy and Materials

Enabling Technologies and Emerging Applications

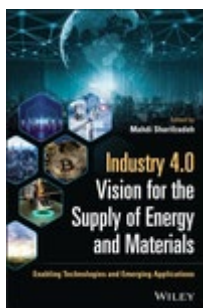
EDITOR MAHDI SHARIFZADEH

Explore the impact of Industry 4.0 technologies on the supply chain with this authoritative text written by a leader in his field

In *Industry 4.0 Vision for the Supply of Energy and Materials*, distinguished researcher and author, Dr. Mahdi Sharifzadeh, delivers thematic, analytic, and applied discussions of the Industry 4.0 vision for supply chain design and operation. The book compiles all current aspects and emerging notions of Industry 4.0 into clusters of "enablers" and "analytics" of Supply Chain 4.0. Their multifaceted and highly interconnected nature is discussed at length, as are their diverse range of applications.

You'll discover uses of these new technologies ranging from the supply of conventional energy networks to renewables, pharmaceuticals, and additive manufacturing. You'll also learn about their implications for economic prosperity and environmental sustainability. For each sector, the author scrutinizes current industrial practice and discusses developing concepts. Finally, the book concludes with potential future research directions of interest to industry practitioners and academics alike.

Perfect for PhD-level and Postdoctoral researchers and industrial researchers, *Industry 4.0 Vision for the Supply of Energy and Materials* will also earn a place in the libraries of working professionals with an interest in the quantitative analysis of Supply Chain 4.0 concepts and techniques.



JULY 2022 448PP
978-1-119-69593-6 CL \$135.00 (Japan)
Systems Engineering & Management

Emerging Computing Paradigms

Principles, Advances and Applications

EDITOR UMANG SINGH, EDITOR SAN MURUGESAN & EDITOR ASHISH SETHI

University of Western Sydney

This book presents a holistic overview of major new computing paradigms of the 21st Century

In *Emerging Computing Paradigms: Principles, Advances and Applications*, international scholars offer a compendium of essential knowledge on new promising computing paradigms. The book examines the characteristics and features of emerging computing technologies and provides insight into recent technological developments and their potential real-world applications that promise to shape the future.

This book is a useful resource for all those who wish to quickly grasp new concepts of and insights on emerging computer paradigms and pursue further research or innovate new novel applications harnessing these concepts.

Key Features

- Presents a comprehensive coverage of new technologies that have the potential to shape the future of our world -- quantum computing, computational intelligence, advanced wireless networks and blockchain technology.
- Revisits mainstream ideas now being widely adopted, such as cloud computing, the Internet of Things (IoT) and cybersecurity
- Offers recommendations and practical insights to assist the readers in the application of these technologies

Aimed at IT professionals, educators, researchers, and students, *Emerging Computing Paradigms: Principles, Advances and Applications* is a comprehensive knowledge resource to get ahead of the curve in examining and exploiting emerging new concepts and technologies. Business executives will also find the book valuable and gain an advantage over competitors in harnessing the concepts examined therein.



JULY 2022 352PP
978-1-119-81340-8 CL \$150.00 (Japan)
Quantum Computing

エネルギー

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

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-art in solid and gaseous biofuel production, a must have for any engineer or scientist working in this field.

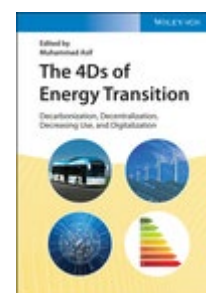
AUGUST 2022 UnknownPP
978-1-119-78582-8 CL \$225.00 (Japan)
Bioenergy

The 4Ds of Energy Transition

Decarbonization, Decentralization, Decreasing Use, and Digitalization

EDITOR MUHAMMAD ASIF

Enables readers to understand technology-driven approaches that address the challenges of today's growing energy demand and the shift towards sustainability energy



This book provides a comprehensive account of the characteristics of energy transition, covering the latest advancements, trends, and practices around the topic. It charts the path to global energy sustainability based on existing technology by focusing on the four dynamic approaches of decarbonization, decreasing use, decentralization, and digitalization, plus the important technical, economic, social and policy perspectives surrounding those approaches.

Each technology is demonstrated with an introduction and sample problems. The work appropriately incorporates up-to-date data, case studies and comparative assessments to further aid in reader comprehension. Sample topics discussed within the work by key thinkers and researchers in the fields energy and economy include:

- Renewable energy and sustainable energy future
- Hydrogen and fuel cells
- Electric mobility and sustainable transportation
- Distributed and off-grid generation, energy storage, and batteries
- Smart energy solutions, such as smart meters, smart grids and smart cities

This book is an ideal professional resource for engineers and technicians working in areas related to the development of energy systems.

JULY 2022 400PP
978-3-527-34882-4 CL \$115.00 (Japan)
Power Technology & Power Engineering

地球科学

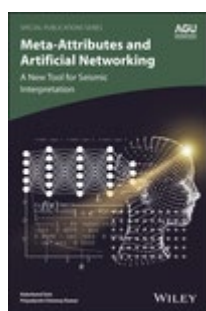
Meta-attributes and Artificial Networking**A New Tool for Seismic Interpretation**

KALACHAND SAIN & PRIYADARSHI CHINMOY KUMAR

CSIR-National Geophysical Research Group, Hyderabad, India

Applying machine learning to the interpretation of seismic data

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.

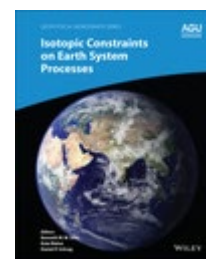
SERIES: SPECIAL PUBLICATIONS

JULY 2022 304PP
978-1-119-48200-0 CL \$199.95 (Japan)
Geology & Geophysics

Isotopic Constraints on Earth System Processes

KENNETH W. SIMS, KATHARINE (KATE) MAHER & DANIEL P. SCHRAG

From establishing the absolute age of the Earth to providing a stronger understanding of the nexus between geology and life, the careful measurement and quantitative interpretation of minor variations in the isotopic composition of Earth's materials has provided profound insight into the origins and workings of our planet.



Isotopic Constraints on Earth System Processes presents examples of the application of numerous different isotope systems to address a wide range of topical problems in Earth system science.

Volume highlights include:

- examination of the natural fractionation of non-traditional stable isotopes
- utilizing isotopes to understand the origin of magmas and evolution of volcanic systems
- application of isotopes to interrogate and understand Earth's Carbon and Oxygen cycles
- examination of the geochemical and hydrologic processes that lead to isotopic fractionation
- application of isotopic reactive transport models to decipher hydrologic and biogeochemical processes

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: GEOPHYSICAL MONOGRAPH SERIES

JULY 2022 352PP
978-1-119-59497-0 CL \$199.95 (Japan)
Geochemistry & Mineralogy

Karst Hydrogeology, Geomorphology and Caves

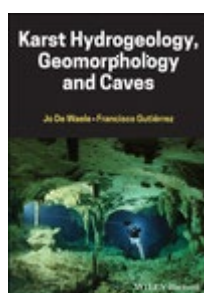
JO DE WAELE & FRANCISCO GUTIERREZ

A Comprehensive Resource Covering All Aspects of Karst Hydrogeology and Geomorphology

This book covers all aspects of karst hydrogeology and geomorphology. It addresses a wide range of topics including cave biology and ecology, deep karstification, petroleum reservoirs, microbiology, pollution, remediation, laser scanning, and paleoclimatology. Overall, the work reflects the increasing recognition of karst as a fundamental part of the Earth's crust and helps readers understand the field from both a holistic and a field geology perspective. Key questions discussed in the work include:

- How karst is becoming more and more relevant for human activities (such as groundwater, karst-related hazards, and show cave development)
- The enormous technological developments that have been made in the field in recent years (such as laser scanning)
- The major breakthroughs in the field (such as karst aquifer modelling, cave microbiology, biokarst, and palaeoclimate reconstruction based on speleothems) that have had a huge impact outside of karst geology

For all scientists working in geology and hydrogeology and postgraduates/lecturers in karst-related programs of study, this book serves as a valuable all-in-one learning resource to understand the field and its impact on a variety of other disciplines across the earth and environmental sciences.



JULY 2022 896PP
978-1-119-60534-8 CL \$140.00 (Japan)
Geomorphology

Introduction to Aerosol Modelling

From Theory to Code

EDITOR DAVID L. TOPPING & EDITOR MICHAEL BANE

CSIRO Division of Health Sciences & Nutrition, Adelaide,
Australia

An aerosol particle is defined a solid or liquid particle suspended in a carrier gas. Whilst we often treat scientific challenges in a siloed way, aerosol particles are of interest across many disciplines. For example, atmospheric aerosol particles are key determinants of air quality and climate change. Knowledge of aerosol physics and generation mechanisms is key to efficient fuel delivery and drug delivery to the lungs. Likewise, various manufacturing processes require optimal generation, delivery and removal of aerosol particles in a range of conditions.

There is a natural tendency for the aerosol scientist to therefore work at the interface of the traditional academic subjects of physics, chemistry, biology, mathematics and computing. The impacts that aerosol particles have are linked to their evolving chemical and physical characteristics. Likewise, the chemical and physical characteristic of aerosol particles reflect their sources and subsequent processes they have been subject to. Computational models are not only essential for constructing evidence-based understanding of important aerosol processes, but also to predict change and impact. Whilst existing textbooks provide an overview of theoretical frameworks on which aerosol models are based, there is a significant gap in reference material that provide training in translating theory into code.

The purpose of this book is to provide readers with exactly that. In following the content provided in this book, you will be able to reproduce models of key processes that can either be used in isolation or brought together to construct a demonstrator OD box-model of a coupled gaseous-particulate system. You may be reading this book as an undergraduate, postgraduate, seasoned researcher in the private/public sector or as someone who wishes to better understand the pathways to aerosol model development. Wherever you position yourself, it is hoped that the tools you will learn through this book will provide you with the basis to develop your own platforms and to ensure the next generation of aerosol modellers are equipped with foundational skills to address future challenges in aerosol science.

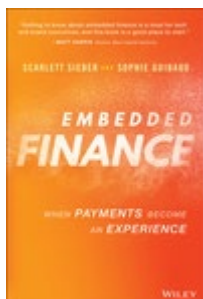
JULY 2022 900PP
978-1-119-62565-0 PB \$120.00 (Japan)
Atmospheric Sciences

ファイナンス／インベストメント

Embedded Finance**When Payments Become An Experience**

SCARLETT SIEBER & SOPHIE GUIBAUD

Go back for a moment to the early 2000s and imagine hearing about a new phone concept that was going to be more than a phone. In fact, it was actually a mini computer with most of the screen as glass. That concept would have seemed unbelievable at the time, but of course we know now that the concept was the first iPhone. The story we are about to tell about another new concept is as exciting as that and will arguably have an even larger impact. This is the story about Embedded Finance. It's about a revolution in how people live, interact with, and manage their money.



In *Embedded Finance: When Payments Become an Experience*, a team of veteran growth strategists, entrepreneurs, and fintech experts delivers a comprehensive overview of embedded finance and the opportunities it offers to stakeholders around the world. The book discusses the embedded finance initiatives being explored by the world's biggest tech companies—including Amazon and Google—as well as those being developed and launched by smaller companies in a variety of industries who stand to revolutionize their business models and to supercharge their customers' experience.

This book highlights the key trends in this emerging industry, as well as the lessons we've already learned from early entrants into the market. It also discusses those firms that are acting as the most effective enablers of technological change today, the role that will be played by the big, global banks, and how embedded finance will impact societies and economies in the near and far future.

A page-turning roadmap to one of the most fascinating and intriguing technological shifts taking place in the digital landscape today, *Embedded Finance* will earn a place in the libraries of executives at technology, retail, fintech, and financial services firms. It will also prove an invaluable resource for financial regulators, trade association professionals, consultants, students of business, finance, and technology, and all those that are curious about the ever-evolving world of technology.

JULY 2022 240PP
978-1-119-89105-5 CL \$26.95 (Japan)
Money & Banking

Mathematical Techniques in Finance**An Introduction**

AMIR SADR

Oklahoma State University, OK, USA

Explore the foundations of modern finance with this intuitive mathematical guide

In *Mathematical Techniques in Finance: An Introduction*, distinguished finance professional Amir Sadr delivers an essential and practical guide to the mathematical foundations of various areas of finance, including corporate finance, investments, risk management, and more.



Readers will discover a wealth of accessible information that reveals the underpinnings of business and finance. You'll learn about:

- Investment theory, including utility theory, mean-variance theory and asset allocation, and the Capital Asset Pricing Model
- Derivatives, including forwards, options, the random walk, and Brownian Motion
- Interest rate curves, including yield curves, interest rate swap curves, and interest rate derivatives

Complete with math reviews, useful Excel functions, and a glossary of financial terms, *Mathematical Techniques in Finance: An Introduction* is required reading for students and professionals in finance.

SERIES: WILEY FINANCE

JULY 2022 272PP
978-1-119-83840-1 CL \$90.00 (Japan)
Institutional & Corporate Finance

The Private Equity Toolkit

A Step-by-Step Guide to Getting Deals Done from Sourcing to Exit

TAMARA SAKOVSKA

Master the navigation of private equity deals from sourcing to exit with this comprehensive guide

The Private Equity Toolkit: A Step-by-Step Guide to Getting Deals Done from Sourcing to Exit offers readers the first complete guide to executing a private equity deal from start to finish. Written by an accomplished professional with twenty years of experience in the private equity space, this book is perfect for current private equity analysts and associates, as well as business students and professionals seeking to enter the private equity field.



This book covers every stage of the private equity process, from sourcing the deal to company exit. It provides a systematic overview of how to:

- Originate attractive investment opportunities;
- Generate superior deal insights;
- Form effective working relationships with management teams;
- Add value on portfolio company boards; and
- Achieve profitable investment exits.

The Private Equity Toolkit equips its readers with actionable frameworks and proprietary tools that can be applied on a daily basis in the private equity industry. The content found within is designed to be current and helpful for years to come and appeals to a global audience.

SERIES: WILEY FINANCE

JULY 2022 268PP
978-1-119-69710-7 CL \$39.95 (Japan)
Institutional & Corporate Finance

Mutual Funds For Dummies

8th Edition

ERIC TYSON, WESTON, UNITED STATES

Build substantial wealth with mutual funds (and ETFs)!

Mutual funds and exchange-traded funds (ETFs) are great for professional management, diversification and liquidity into your portfolio, but what are the costs and risks? And how have the best investment strategies changed with the rise of robo-investing, ETFs, and new tax rules? *Mutual Funds For Dummies* answers all your questions, giving you insight on how to find the best-managed funds that match your financial goals.



With straightforward advice and plenty of specific fund recommendations, Eric Tyson helps you avoid fund-investing pitfalls and maximize your returns. This new edition covers the latest investment trends and philosophies, including factor investing, ESG investing, and online investing. You'll also find completely updated coverage on the best mutual funds and ETFs in each category.

Earn more with funds!

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- Weigh the pros and cons of funds, and use funds to help you pick your own stocks
- Make the most of online investing and other new technologies and trends
- Maximize your gains by choosing the funds and strategies that work for you

Mutual Funds For Dummies is a trusted resource, and this update has arrived to help you plan and implement a successful investment strategy. The fund market is rebounding--get on the train and take advantage of the opportunity today!

JULY 2022 UnknownPP
978-1-119-88176-6 PB \$26.99 (Japan)
PERSONAL FINANCE

The New Retirement

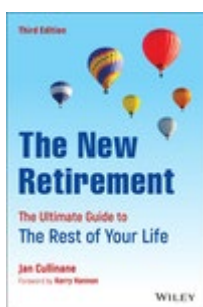
The Ultimate Guide to the Rest of Your Life

3rd Edition

JAN CULLINANE, PALM COAST

Craft your complete retirement plan with help from this straightforward and robust blueprint

In the newly revised Third Edition of *The New Retirement: The Ultimate Guide to the Rest of Your Life*, best-selling and award-winning retirement author Jan Cullinane delivers an organized, engaging, and holistic treatment of retirement planning. With extensive updates and additions throughout, the book includes surveys, questionnaires, and worksheets to help readers understand and apply the critical steps affecting retirement planning.



In this book, you'll also find:

- Fresh and informative examples from real people about all aspects of their retirement journey, from savings and tax issues to location selection to second careers/remote work, and leaving a legacy
- Thorough explorations of niche retirement lifestyles, established locations, and new retirement communities
- Discussions of critical issues affecting potential and current retirees, including health, relationships, politics, climate, demographics, and working

Perfect for anyone contemplating full or phased retirement, as well as for those who are already retired, *The New Retirement, 3rd edition*, is an invaluable handbook for planning the penultimate chapter of your life.

JULY 2022 368PP
978-1-119-83815-9 PB \$24.95 (Japan)
Personal Finance / Financial Advising

2023 CFA Program Curriculum Level I Box Set

CFA INSTITUTE

Prepare confidently and efficiently for the Level I CFA exam. The 2023 CFA Program Curriculum Level I Box Set contains coverage of all the material tested on the CFA Level I exam. This box set, part of the larger CFA Candidate Body of Knowledge (CBOK) includes the full official curriculum as well as practice questions and answers that will assist readers in the recall of key concepts, formulas, and terms. The provided content covers ethical and professional standards, quantitative methods, economics, financial reporting and analysis, as well as portfolio management and analysis subjects, like corporate finance, equity investments, fixed income investments, derivatives, and alternative investments. Readers will also find job-relevant instruction and crucial insights into practical knowledge and skills. The 2023 CFA Program Curriculum Level I Box Set is an indispensable resource for anyone seeking to become a Chartered Financial Analyst.



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INVESTMENTS & SECURITIES

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CFA INSTITUTE

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INVESTMENTS & SECURITIES

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Succeed on the CFA Level III exam on your first attempt with this invaluable and official resource. In the 2023 CFA Program Curriculum Level III Box Set, readers will find the market-relevant and job-applicable knowledge and skills required to succeed on the CFA Level III exam and in entry-level jobs as a Chartered Financial Analyst. Part of the broader CFA Candidate Body of Knowledge (CBOK), this intuitively organized and highly visual study resource contains critical insights from financial thought and industry leaders. The Box Set also offers practice questions and answers designed to improve retention and recall of key concepts, terms, and formulas. It is an indispensable study aid for all aspiring Chartered Financial Analysts.



JULY 2022 Unknown PP
978-1-953337-19-1 PB \$250.00 (Japan)
INVESTMENTS & SECURITIES

食品科学

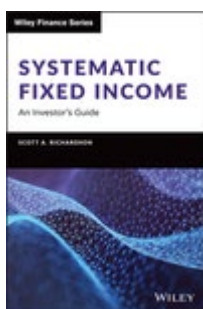
Systematic Fixed Income

An Investor's Guide

SCOTT RICHARDSON, LONDON, UNITED KINGDOM

Understand the role and potential of fixed income as an asset class

Systematic Fixed Income: An Investor's Guide offers readers a powerful, practical, and robust framework for investors and asset managers to preserve the diversifying properties of a fixed income allocation, and add to that unique sources of excess returns via systematic security selection. In other words, this framework allows for efficient capture of fixed income beta and fixed income alpha.



Celebrated finance professional Dr. Scott Richardson presents concrete strategies for identifying the relevant sources of risk and return in public fixed income markets and explains the tactical and strategic roles played by fixed income in typical portfolios. In the book, readers will explore:

- The implementation challenges associated with a systematic fixed income portfolio, including liquidity and risk
- The systematic return sources for rate and credit sensitive fixed income assets in both developed and emerging markets

An essential read for asset managers and institutional investors with a professional interest in fixed income markets, *Systematic Fixed Income: An Investor's Guide* deserves a place in the libraries of advanced degree students of finance, business, and investment, as well as other investment professionals seeking to refine their understanding of the full potential of this foundational asset class.

SERIES: WILEY FINANCE

JULY 2022 320PP
978-1-119-90013-9 CL \$50.00 (Japan)
Investments & Securities

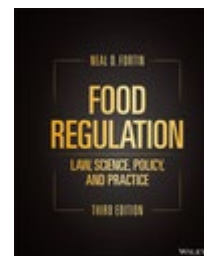
Food Regulation

Law, Science, Policy, and Practice, 3rd Edition

NEAL D. FORTIN

Provides both students and professionals with up-to-date coverage of US food regulatory law

Food Regulation: Law, Science, Policy, and Practice presents an in-depth yet accessible account of all key aspects of United States food regulation. Using a modified casebook format, this comprehensive textbook introduces readers to the case law and statutory scheme of food regulation, defines the inspection authority and enforcement tools of various regulatory agencies, discusses current and emerging public policy issues, and more. Readers explore a wide range of topics in food law, science, policy, and practice; which connect legal theory to practical application.



The third edition is fully updated to reflect significant changes in US food law, such as the regulations implementing the FDA Food Safety Modernization Act (FSMA) and the National Bioengineered Food Disclosure Standard. New case studies and discussion questions highlight important legal trends, policy debates, and application of current law.

Food Regulation: Law, Science, Policy, and Practice, Third Edition, remains the ideal textbook for undergraduate and graduate courses in agriculture, food science, dietetics, law, and regulatory compliance management. It is also a must-have reference for food scientists, attorneys, researchers, quality assurance and regulatory specialists, and other industry professionals responsible for complying with US food regulation.

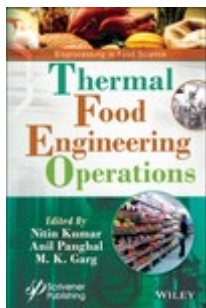
JULY 2022 544PP
978-1-119-76427-4 CL \$149.95 (Japan)
GENERAL & INTRODUCTORY FOOD SCIENCE & TECHNOLOGY

地理学

Thermal Food Engineering Operations

NITIN KUMAR, ANIL PANGHAL & M. K. GARG

As the demand for healthy food increases in the current global scenario, manufacturers are searching for new possibilities for occupying a greater share in the rapidly changing food market. Compiled reports and updated knowledge on thermal processing of food products are imperative for commercial enterprises and manufacturing units. In the current scenario, academia, researchers, and food industries are working in a scattered manner and different technologies developed at each level are not compiled to implement for the benefits of different stakeholders. However, advancements in bioprocesses are required at all levels for the betterment of food industries and consumers. This series of groundbreaking edited volumes will be a comprehensive compilation of all the research that has been carried out so far, their practical applications, and the future scope of research and development in the food bioprocessing industry.



This first volume includes all the conventional and novel thermal technologies based on conduction, convection, and radiation principles and covers the basics of microbial inactivation with heat treatments, aseptic processing, retorting, drying, dehydration, combined high-pressure thermal treatments, and safety and quality concerns in food processing. Before studying the novel non-thermal processes and the concept of minimal processing, comprehensive knowledge about the conventional thermal technologies is desired along with benefits, constraints, equipment, and implementation of these technologies. Whether for the engineer, scientist, or student, this series is a must-have for any library.

Audience: Process and chemical engineers, chemists, engineers in other disciplines, managers, researchers, scientists, students, and teachers working in the field of food engineering and processing

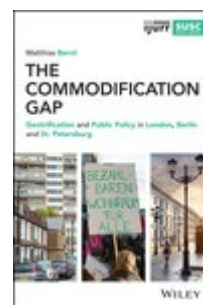
JULY 2022 496PP
978-1-119-77559-1 CL \$225.00 (Japan)
Food Chemistry

The Commodification Gap

Gentrification and Public Policy in London, Berlin and St. Petersburg

MATTHIAS BERNT

In *The Commodification Gap: Gentrification and Public Policy in London, Berlin and St. Petersburg*, distinguished sociologist and political scientist Matthias Bernt delivers an insightful institutionalist perspective on the field of gentrification studies.



- Explores the root causes and consequences of gentrification in the UK, Germany and Russia
- Demonstrates how different institutional arrangements have resulted in the facilitation, deceleration, or alteration of gentrification across time and place
- Based on empirical studies conducted in Great Britain, Germany and Russia and contains one of the first-ever English language discussions of gentrification in Germany and Russia
- Examines the limits of the popular "rent-gap" theory and proposes the novel concept of the "commodification gap"
- Reveals how different institutional contexts in the UK, Germany, and Russia, have framed the conditions for these gaps to enable gentrification

SERIES: IJURR STUDIES IN URBAN AND SOCIAL CHANGE BOOK SERIES

JULY 2022 288PP
978-1-119-60304-7 CL \$94.95 (Japan)
978-1-119-60305-4 PB \$34.95 (Japan)
Urban Geography

コンシューマーヘルス

Dad's Guide to Pregnancy For Dummies

3rd Edition

MATTHEW M. F. MILLER, CHICAGO, UNITED STATES & SHARON PERKINS, MEDORD, UNITED STATES

An invaluable handbook to being the best father-to-be you can be during one of the most exciting times of your life

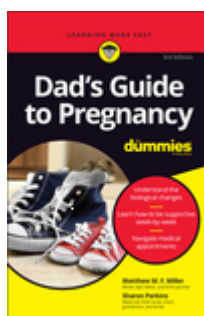
Dad's Guide to Pregnancy For Dummies walks you through the ins and outs of how to best support your partner through the logistical, physical, and emotional challenges of pregnancy. Yes, we know that you won't be doing the lion's share of the work over the next nine months, but you can do your part by getting a head start on learning critical information about the ins and outs of pregnancy, labor and delivery, and the first few months of baby care.

You'll get the lowdown on topics like setting up a nursery, how to be helpful during childbirth, and the best way to change a diaper. You'll even find advice about when to let other people in on the fact that you're expecting.

The book also offers:

- Comprehensive info on ultrasounds, caesarean sections, infertility treatments, and other pre-birth and birth-related subjects
- Brand-new updates on using a surrogate, sperm donation, and what dads can do when they won't be physically present during the pregnancy
- Strategies for handling prenatal depression

Full of authoritative and easy-to-follow tips and techniques to get you ready for the big day (and all the days that follow it), *Dad's Guide to Pregnancy For Dummies* is your survival guide to pregnancy, childbirth, and fatherhood.



JULY 2022 416PP
978-1-119-86715-9 PB \$19.99 (Japan)
CONSUMER HEALTH GENERAL

公衆衛生

Health Care in the United States

Organization, Management, and Policy

2nd Edition

HOWARD P. GREENWALD

A one-stop resource covering American health care and the challenges it faces

In the newly revised Second Edition of *Health Care in the United States: Organization, Management, and Policy*, distinguished health and organizational researcher Dr. Howard P. Greenwald delivers a comprehensive exploration of the US health care system and the challenges its practitioners, professionals, and consumers face.

From organization to management, financing, and evaluation, this book discusses the critical concepts, trends, and features of this sprawling set of interlocking systems. It also examines the historical origins of modern health care and how it delivers services to over 300 million Americans. Readers will discover:

- Modern controversies in American health care that animate political debate and discussion, including the Affordable Care Act.
- Discussions of the health care labor force, as well as its history, background, and crucial challenges.
- Possible future directions for US health care, including preventive medicine, new policy initiatives, and proposals for reform.

Written for students and professionals working in or studying health care management, health policy, public health, medical sociology, or anthropology, social work, or political science, this latest edition of *Health Care in the United States* is also a fascinating read for members of the general public curious about one of the most important services they'll ever interact with.



JULY 2022 320PP
978-1-119-81221-0 PB \$93.95 (Japan)
PUBLIC HEALTH GENERAL

歴史

The Health Care Data Guide

Learning from Data for Improvement

2nd Edition

LLOYD P. PROVOST & SANDRA MURRAY

Transform health care delivery with data

In the newly revised Second Edition of *The Health Care Data Guide: Learning from Data for Improvement*, an expert team of authors delivers a comprehensive blueprint for healthcare improvement with data. The book discusses how health care practitioners, researchers, and other professionals can more confidently plan and implement health care enhancements and changes while ensuring that those changes are actually an improvement on the status quo.



An excellent companion resource to *The Improvement Guide: A Practical Approach to Enhancing Organizational Performance, 2nd Edition*, the book also offers:

- Comprehensive discussions of using data to test, adapt, implement, and scale positive organizational change
- Strategies for identifying the role and characteristics of data that can be used for improvement
- Expansive explorations of the Model for Improvement, a holistic system for health care improvement projects

An ideal resource for health care practitioners, researchers, administrators, and other professionals, *The Health Care Data Guide: Learning from Data for Improvement* is also a must-read for students of business with an interest in health and health care delivery.

JULY 2022 656PP
978-1-119-69013-9 PB \$98.75 (Japan)
PUBLIC HEALTH SERVICES & POLICY

A History of the Wind

ALAIN CORBIN & TRANSLATED BY WILLIAM PENISTON

University of Paris I

READERSHIP: General readers interested in history and literature; students and scholars of cultural history, modern history and the history of science and knowledge.



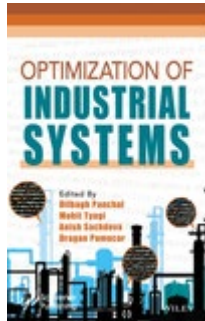
JULY 2022 170PP
978-1-5095-5205-4 CL \$19.95 (Japan)
General & Introductory History

エンジニアリング

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.

SEPTEMBER 2022 595PP
978-1-119-75031-4 CL \$245.00 (Japan)
Industrial Engineering / Quality Control

ライフスタイル

Card Games For Dummies

3rd Edition

BARRY RIGAL, NEW YORK, UNITED STATES

The perfect book for when you're ready to move beyond 52-card pickup

Feeling rummy? Ready to bridge the gap? In the mood to go fish? *Card Games For Dummies* is your source for rules, strategy, and fun. You'll learn everything you need to know to play and win at your family's favorite games, plus a bunch of others that are probably new to you. If you're the gambling kind, you can get started with poker, blackjack, and other casino favorites, right here. This handy guide takes card game enthusiasm to the next level and explains the tips and tricks that can turn game night into some serious competition.



- Learn the official rules for all your favorite card games
- Discover strategies for winning at bridge, poker, hearts, and many more
- Play easy games that are perfect for the whole family
- Get started in the world of online card gaming

Card Games For Dummies will whet your appetite for play. Start shuffling!

JULY 2022 UnknownPP
978-1-119-88042-4 PB \$19.99 (Japan)
GAMES

言語学

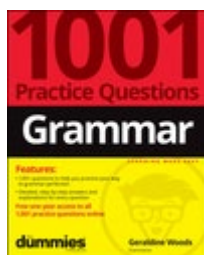
Grammar: 1001 Practice Questions For Dummies (+ Free Online Practice)

GERALDINE WOODS, NEW YORK, UNITED STATES

New York, New York

Learn to dot your I's and cross your T's with this hands-on grammar practice

The rules of grammar can seem abstract and confusing. But putting them into practice will help you understand and retain grammatical conventions. In *Grammar: 1001 Practice Questions For Dummies*, you'll get the step-by-step and hands-on experience you need to improve your conjugations, gerund use, punctuation, and more. Each practice question includes detailed explanations and solutions available both in the book and online.



The book also includes:

- Intuitive questions on everything from Oxford commas to verb tense
- Free, one-year access to all 1,001 practice questions online, and the ability to create customized quizzes and study sessions
- Detailed explanations for every question to help build your understanding

Ideal for self-paced learning and as a companion for students in grammar and English classes in high school and college, *Grammar: 1001 Practice Questions For Dummies (+ Free Online Practice)* is a must-have resource to improve your written and spoken English communication. *Grammar: 1001 Practice Questions For Dummies* (9781119883746) was previously published as *1,001 Grammar Practice Questions For Dummies* (9781118745014). While this version features a new *Dummies* cover and design, the content is the same as the prior release and should not be considered a new or updated product.

AUGUST 2022 UnknownPP
978-1-119-88374-6 PB \$29.99 (Japan)
ENGLISH LANGUAGE

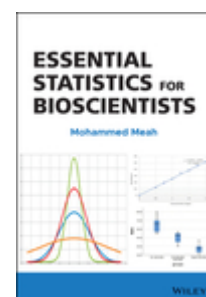
ライフサイエンス

Essential Statistics for Bioscientists

MOHAMMED MEAH

Dive into the most common statistical tests and software packages used for scientific data analysis and interpretation

In *Essential Statistics For Bioscientists*, experienced university and bioscientist Dr Mohammed Meah delivers easy access to statistical analysis and data presentation. It is a great resource for students in the field of life and health sciences to conceptualize, analyze, and present data. This book uses three popular and commonly used statistics softwares--Microsoft Excel, Graphpad Prism, and SPSS--and offers clear, step-by-step instructions for essential data analysis and graphical/tabular display of data.



Beginning with fundamental statistics terminology and concepts, including data types, descriptive statistics (central and spread of data), exploratory statistics (graphical display) and inferential statistics (hypothesis testing and correlation), the content gradually builds in complexity, explaining which statistical test is best suited and how to perform it.

Perfect for undergraduate students in the life and health sciences, *Essential Statistics For Bioscientists* will also earn a place in the libraries of anyone studying medicine, nursing, physiotherapy, pharmacy, and dentistry requiring a refresher or primer on statistical fundamentals.

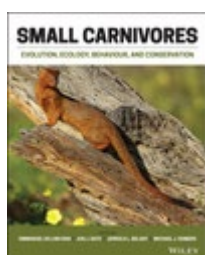
JULY 2022 304PP
978-1-119-71200-8 PB \$49.95 (Japan)
General & Introductory Life Sciences

Small Carnivores

Evolution, Ecology, Behaviour and Conservation

EMMANUEL DO LINH SAN, JUN J. SATO, JERROLD L. BELANT & MICHAEL J. SOMERS

This book focuses on the 232 species of the mammalian Order Carnivora with an average body mass < 21.5 kg. Small carnivores inhabit virtually all of the Earth's ecosystems, adopting terrestrial, semi-fossorial, (semi-)arboreal or (semi-)aquatic lifestyles. They occupy multiple trophic levels and therefore play important roles in the regulation of ecosystems, such as natural pest control, seed dispersal and nutrient cycling. In areas where humans have extirpated large carnivores, small carnivores may become the dominant predators, which may increase their abundance ("mesopredator release") to the point that they can sometimes destabilize communities, drive local extirpations and reduce overall biodiversity. On the other hand, one third of the world's small carnivores are threatened or near threatened with extinction. This results from regionally burgeoning human populations' industrial and agricultural activities, causing habitat reduction, destruction, fragmentation and pollution. Overexploitation, persecution and the impacts of introduced predators, competitors, and pathogens have also negatively affected many small carnivore species. Although small carnivores have been intensively studied over the past decades, bibliometric studies showed that they have not received the same attention given to large carnivores. Furthermore, there is huge disparity in how research efforts on small carnivores have been distributed, with some species intensively studied and others superficially or not at all. This book aims at filling a gap in the scientific literature by elucidating the important roles of, and documenting the latest knowledge on, the world's small carnivores.



JULY 2022 608PP
978-1-118-94328-1 CL \$115.00 (Japan)
Animal Ecology

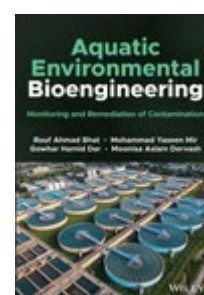
Aquatic Environmental Bioengineering

Monitoring and Remediation of Contamination

ROUF AHMAD BHAT, INDIA, MOHAMMAD YASEEN MIR, INDIA, GOWHAR HAMID DAR, INDIA & MOONISA ASLAM DERSH, INDIA

Discover the importance of remediation efforts for aquatic ecosystems

Most contamination of water bodies stem from human activity and the pollution in our water is one of the most significant environmental concerns facing future generations. The most significant of these pollutants are halogenated organic compounds, petroleum hydrocarbons, radionuclides, metal and metalloids, pharmaceutical drugs, microbial toxins, and flame retardants. With such a vast array of potential contaminants and dangerously cumulating contamination levels in fragile marine environments, reparative action is more essential than ever.



Aquatic Environmental Bioengineering: Monitoring and Remediation of Contamination provides the reader with a map towards environmentally safe and economically feasible technologies to intervene in polluted aquatic ecosystems. The authors suggest a phased approach consisting of site classification and risk assessment, followed by remediation technology selection and implementation. Effective methods for surveying bodies of water are emphasized particularly, as well as advancements in the development of novel transgenic plants and microbial fuel cells are put forward as effective tools against environmental contamination and industrial wastewater pollution.

The ideal resource for researchers and students of environmental science, plant biotechnology, agricultural science, environmental engineering, and plant sciences, *Aquatic Environmental Bioengineering* will be a crucial resource for the remediation of contaminants in our aquatic ecosystems.

JULY 2022 256PP
978-1-119-76094-8 CL \$225.00 (Japan)
Aquatic Ecology

Blood Science

Principles and Pathology, 2nd Edition

ANDREW BLANN & NESSAR AHMED

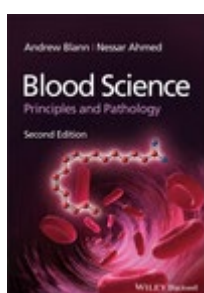
City Hospital, Birmingham, UK; School of Healthcare Science
Manchester Metropolitan University, Manchester, UK

The second edition of the leading introduction to blood science, updated new illustrations and case studies

Blood Science: Principles and Pathology integrates hematology and blood transfusion, clinical biochemistry, and immunology to provide a thorough introduction to this rapidly expanding discipline. Reflecting recent changes in education and training for healthcare scientists, this comprehensive textbook covers the analytical techniques used in blood science, the diagnosis and management of various blood disorders, and more.

Fully revised, the second edition presents new case studies and high-quality images throughout, illustrating the practical skills and knowledge required by today's undergraduate students and practitioners. Detailed yet accessible chapters contain learning objectives and summaries, links to further readings and resources, and real-world case studies with easy-to-follow interpretations. Throughout the text, the authors highlight how laboratory data and clinical details are used to investigate patients with actual or suspected diseases in real-world scenarios.

Designed to meet the needs of undergraduate students taking blood science modules in biomedical, biological, and healthcare science programs, *Blood Science: Principles and Pathology, Second Edition* is also an invaluable guide for new graduates entering the field as well as those training for professional qualifications or working with blood samples in laboratory-based environments.

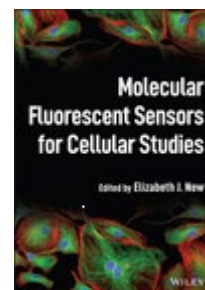


JULY 2022 608PP
978-1-119-86411-0 PB \$109.95 (Japan)
CELL & MOLECULAR BIOLOGY

Molecular Fluorescent Sensors for Cellular Studies

ELIZABETH J. NEW

Enables readers to fully understand the fundamentals and chemical principles of fluorescent sensing and the design of fluorescent sensors



Fluorescent sensors are able to provide specific chemical information about cells and can be used as a crucial tool to uncover differences between healthy and diseased cells. *Molecular Fluorescent Sensors for Cellular Studies* provides an avenue into and overview of currently available fluorescent sensing technology and its application to biological imaging.

This book aims to help the reader understand the principles of fluorescence and the mechanisms by which fluorescent sensors operate in order to ensure appropriate and optimal use of sensors. Key applications of fluorescent sensing are presented, with explanations not only of how new sensors can be designed, but also how existing sensors can be applied to various biological settings and conditions. Clear and engaging schematics throughout the book explain chemical principles of sensing to the non-expert.

- Discusses the wide breadth of fluorescent sensors, including both those that are commercially available and those reported in literature which are yet to be used widely
- Explains how fluorescent sensors operate for appropriate and optimal use from a theoretical standpoint
- Provides guidance on how to achieve optimal use of fluorescent sensors in practical settings
- Summarizes the principles behind fluorescent sensors and their design

This work will be an invaluable resource for postgraduates and professionals in the fields of microscopy, bioimaging, and diagnostic imaging who wish to harness the information to improve practical applications and to gain key knowledge surrounding the many facets of fluorescent sensing. It is also of interest to medical and biological researchers working across industry, universities and medical institutes.

JULY 2022 256PP
978-1-119-74981-3 PB \$135.00 (Japan)
Cell Biology

The Human Lineage

2nd Edition

MATT CARTMILL & FRED H. SMITH

Boston University; Illinois State University

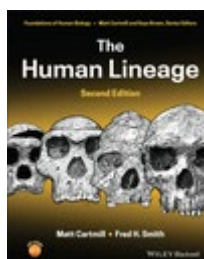
The newly revised and thoroughly updated standard source for mastering the human fossil record.

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 Burtele 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

JULY 2022 624PP
978-1-119-08670-3 CL \$145.00 (Japan)
HUMAN EVOLUTION



The Good Microbes in Medicine, Food Production, Biotechnology, Bioremediation, and Agriculture

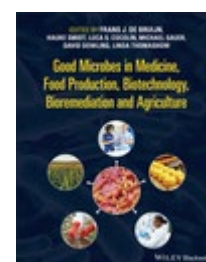
EDITOR FRANS J. DE BRUIJN, EDITOR HAUKE SMIDT, EDITOR LUCA COCOLIN, EDITOR MICHAEL SAUER, EDITOR DAVID N. DOWLING & EDITOR LINDA THOMASHOW

Discover the positive and helpful contributions made by microorganisms to various areas of human health, food preservation and production, biotechnology, industry, environmental clean up and sustainable agriculture.

In *Good Microbes in Medicine, Food Production, Biotechnology, Bioremediation and Agriculture*, a team of distinguished researchers delivers a comprehensive and eye-opening look at the positive side of bacteria and other microbes. The book explores the important and positive roles played by microorganisms.

Divided into five sections, *Good Microbes* examines the use of microorganisms and the microbiome in human health, food production, industrial use, bioremediation, and sustainable agriculture. Coverage spans from food allergies, skin disorders, microbial food preservation and fermentation of various beverages and food products, also from an ethical point of view to beneficial use of microbes in biotechnology, industry, bioeconomy, environmental remediation such as resource recovery, microbial-based environmental clean-up, plant-microbe interactions in bioremediation, biological control of plant diseases, and biological nitrogen fixation.

Perfect for scientists, researchers and anyone with an interest in beneficial microbes, *Good Microbes in Medicine, Food Production, Biotechnology, Bioremediation and Agriculture* is also an indispensable resource for microbiology graduate students, applied microbiologists and policy makers.



JULY 2022 656PP
978-1-119-76254-6 CL \$220.00 (Japan)
Applied Microbiology

文学

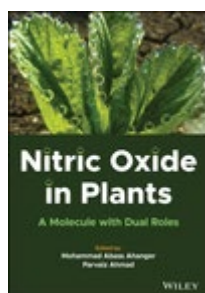
Nitric Oxide in Plants

A Molecule with Dual Roles

EDITOR MOHAMMAD ABASS AHANGER & EDITOR PARVAIZ AHMAD

Examines the beneficial roles of nitric oxide in growth and stress tolerance regulation through its involvement in tolerance mechanisms

Studies have identified the central role of nitric oxide in stress mitigation through the modulation of physiological and biochemical pathways including germination, photosynthesis regulation, and programmed cell death. *Nitric Oxide in Plants: A Molecule with Dual Roles* provides a detailed account of the physio-biochemical, molecular, and omic basis of NO-mediated responses in crop plants under different stresses.



Summarizing recent work from leading researchers in the field, this up-to-date volume presents the current understanding of the modulation of the endogenous nitric oxide concentration following exogenous treatments and nitric oxide scavengers or inhibitors. The contributors discuss topics such as NO-mediated regulation of growth, photosynthesis, and tolerance mechanisms, the reductive and oxidative pathways of NO synthesis, molecular interventions for enhancing NO synthesis, the role of nitrogen in production of NO, beneficial microbes in NO production under normal and changing environmental conditions, and more.

Nitric Oxide in Plants: A Molecule with Dual Roles is an essential resource for academics, students, and industry professionals studying the role of nitric oxide in environmental stress tolerance and its interaction with key signaling molecules.

JULY 2022 336PP
978-1-119-80012-5 CL \$200.00 (Japan)
Plant Physiology

Reading the Modern European Novel since 1900

DANIEL R. SCHWARZ

Cornell University

An exploration of the modern European novel from a renowned English literature scholar

Reading the Modern European Novel since 1900 is an engaging, in-depth examination of the evolution of the modern European novel. Written in Daniel R. Schwarz's precise and highly readable style, this critical study offers compelling discussions on a wide range of major works since 1900 and examines recurring themes within the context of significant historical events, including both World Wars and the Holocaust. The author cites important developments in the evolution of the modern novel and explores how these paradigmatic works of fiction reflect intellectual and cultural history, including developments in painting and cinema. Schwarz focuses on narrative complexity, thematic subtlety, and formal originality as well as how novels render historical events and cultural developments. Discussing major works by Proust, Camus, Mann, Kafka, Grass, di Lampedusa, Bassani, Kertesz, Pamuk, Kundera, Saramago, Muller and Ferrante, Schwarz explores how these often experimental masterworks pay homage to their major predecessors—discussed in Schwarz's ground-breaking *Reading the European Novel to 1900*—even while proposing radical departures from realism in their approach to time and space, their testing the limits of language, and their innovative ways of rendering the human psyche.

Written for teachers and students by a highly-acclaimed scholar and including valuable study questions, *Reading the Modern European Novel since 1900* offers a guide for a deeper understanding of how these original modern masters respond to both the past and present.

SERIES: READING THE NOVEL

JULY 2022 304PP
978-1-119-89502-2 PB \$34.95 (Japan)
9781118680681 CL \$156.00 (Japan) Published, Apr 2018
European Literature/

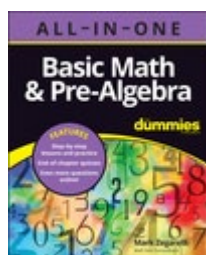
数学

Basic Math & Pre-Algebra All-in-One For Dummies (+ Chapter Quizzes Online)

MARK ZEGARELLI, LONG BRANCH, UNITED STATES

Absolutely everything you need to get ready for Algebra

Scared of square roots? Suspicious of powers of ten? You're not alone. Plenty of school-age students and adult learners don't care for math. But, with the right guide, you can make math basics "click" for you too!



In *Basic Math & Pre-Algebra All-in-One For Dummies*, you'll find everything you need to be successful in your next math class and tackle basic math tasks in the real world. Whether you're trying to get a handle on pre-algebra before moving to the next grade or looking to get more comfortable with everyday math--such as tipping calculations or balancing your checkbook--this book walks you through every step--in plain English, and with clear explanations--to help you build a firm foundation in math.

You'll also get:

- Practice quizzes at the end of each chapter to test your comprehension and understanding
- A bonus online quiz for each chapter, with answer choices presented in multiple choice format
- A ton of explanations, examples, and practice problems that prepare you to tackle more advanced algebraic concepts

From the different categories of numbers to mathematical operations, fractions, percentages, roots and powers, and a short intro to algebraic expressions and equations, *Basic Math & Pre-Algebra All-in-One For Dummies* is an essential companion for anyone who wants to get a handle on the foundational math concepts that are the building blocks for Algebra and beyond.

JULY 2022 624PP
978-1-119-86708-1 PB \$39.99 (Japan)
General & Introductory Mathematics

Teaching Kids New Math For Dummies

KRIS JAMSA, PRESCOTT, UNITED STATES

Help your child unlock their math potential with this intuitive guide to teaching new math

Teaching Kids New Math, K-5, For Dummies makes it easy to understand the new math being taught to students in kindergarten to Grade 5, showing parents and guardians how to help their kids with the new methods and concepts that have been introduced since they finished school.



You'll discover the math-teaching basics you need to help your kids with their math homework while becoming familiar with the grids, arrays, diagrams, and arrows that math students use today. You'll also get:

- A step-by-step walkthrough for teaching young students essential math concepts, even if you think you're not a "math person"
- Best practices, example problems, and tips and tricks about specific math topics that will help your youngster move forward
- Ways to avoid common and typical math pitfalls and frustrations that trap math students and teachers

Full of real-world examples and applications, *Teaching Kids New Math, K-5, For Dummies* is your essential companion to helping your child master their math assignments and have fun while you're doing it!

JULY 2022 384PP
978-1-119-86709-8 PB \$24.99 (Japan)
Math for Teachers

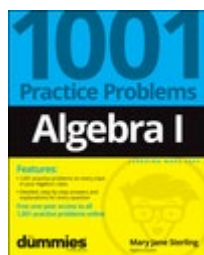
Algebra I: 1001 Practice Problems For Dummies (+ Free Online Practice)

MARY JANE STERLING, PEORIA, UNITED STATES

Bradley University, Peoria, IL

Practice your way to a great grade in Algebra I

Algebra I: 1001 Practice Problems For Dummies gives you 1,001 opportunities to practice solving problems on all the major topics in Algebra I--in the book and online! Get extra help with tricky subjects, solidify what you've already learned, and get in-depth walk-throughs for every problem with this useful book. These practice problems and detailed answer explanations will get you solving for x in no-time, no matter what your skill level. Thanks to Dummies, you have a resource to you put key concepts into practice.



- Work through practice problems on all Algebra I topics covered in class
- Step through detailed solutions for every problem to build your understanding
- Access practice questions online to study anywhere, any time
- Improve your grade and up your study game with practice, practice, practice

The material presented in *Algebra I: 1001 Practice Problems For Dummies* is an excellent resource for students, as well as parents and tutors looking to help supplement classroom instruction.

Algebra I: 1001 Practice Problems For Dummies (9781119883470) was previously published as *1,001 Algebra I Practice Problems For Dummies* (9781118446713). While this version features a new *Dummies* cover and design, the content is the same as the prior release and should not be considered a new or updated product.

JULY 2022 464PP
978-1-119-88347-0 PB \$29.99 (Japan)
ALGEBRA

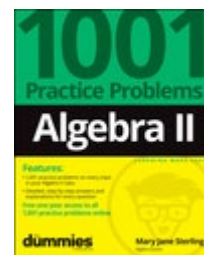
Algebra II: 1001 Practice Problems For Dummies (+ Free Online Practice)

MARY JANE STERLING, PEORIA, UNITED STATES

Bradley University, Peoria, IL

Challenging and fun problems on every topic in a typical Algebra II course

Algebra II: 1001 Practice Problems For Dummies gives you 1,001 opportunities to practice solving problems on all the major topics in Algebra II--in the book and online! Get extra help with tricky subjects, solidify what you've already learned, and get in-depth walk-throughs for every problem with this useful book. These practice problems and detailed answer explanations will get your advanced algebra juices flowing, no matter what your skill level. Thanks to Dummies, you have a resource to help you put key concepts into practice.



- Work through practice problems on all Algebra II topics covered in class
- Step through detailed solutions for every problem to build your understanding
- Access practice questions online to study anywhere, any time
- Improve your grade and up your study game with practice, practice, practice

The material presented in *Algebra II: 1001 Practice Problems For Dummies* is an excellent resource for students, as well as parents and tutors looking to help supplement classroom instruction.

Algebra II: 1001 Practice Problems For Dummies (9781119883562) was previously published as *1,001 Algebra II Practice Problems For Dummies* (9781118446621). While this version features a new *Dummies* cover and design, the content is the same as the prior release and should not be considered a new or updated product.

JULY 2022 UnknownPP
978-1-119-88356-2 PB \$29.99 (Japan)
ALGEBRA

Basic Math & Pre-Algebra: 1001 Practice Problems For Dummies (+ Free Online Practice)

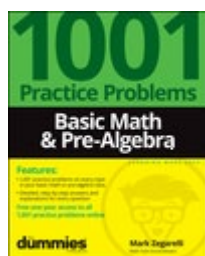
MARK ZEGARELLI, LONG BRANCH, UNITED STATES

Practice makes perfect--gain math mastery with Dummies

Basic Math & Pre-Algebra: 1001 Practice Problems For Dummies gives you 1,001 opportunities to practice solving problems on all the major topics in middle-grade math and Pre-Algebra--in the book and online!

Get extra practice with tricky subjects, solidify what you've already learned, and get in-depth walk-throughs for every problem with this useful book. These practice problems and detailed answer explanations will improve your mathemagic abilities, no matter what your skill level is now. Thanks to Dummies, you have a resource to help you put key concepts into practice.

- Work through practice problems on all middle-grade and Pre-Algebra topics covered in class
- Step through detailed solutions to build your understanding
- Access practice questions online to study anywhere, any time
- Improve your grade and up your study game with practice, practice, practice



The material presented in *Basic Math & Pre-Algebra: 1001 Practice Problems For Dummies* is an excellent resource for students, as well as parents and tutors looking to help supplement classroom instruction.

Basic Math & Pre-Algebra: 1001 Practice Problems For Dummies (9781119883500) was previously published as *1,001 Basic Math & Pre-Algebra Practice Problems For Dummies* (9781118446560). While this version features a new *Dummies* cover and design, the content is the same as the prior release and should not be considered a new or updated product.

JULY 2022 432PP
978-1-119-88350-0 PB \$29.99 (Japan)
ALGEBRA

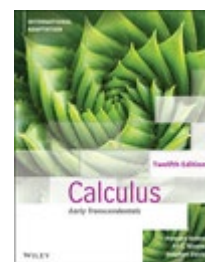
Calculus Early Transcendentals

12th Edition, International Adaptation

HOWARD ANTON, IRL C. BIVENS & STEPHEN DAVIS

Drexel University; Davidson College; Davidson College

Calculus: Early Transcendentals, 12th edition delivers a rigorous and intuitive exploration of calculus, introducing polynomials, rational functions, exponentials, logarithms, and trigonometric functions early in the text. Using the Rule of Four, the authors present mathematical concepts from verbal, algebraic, visual, and numerical points of view. The book includes numerous exercises, applications, and examples that help readers learn and retain the concepts discussed within. This new adapted twelfth edition maintains those aspects of the previous editions that have led to the series success, at the same provides freshness to the new edition that would attract new users.



JULY 2022 1152PP
978-1-119-82048-2 PB \$66.99 (Japan)
CALCULUS

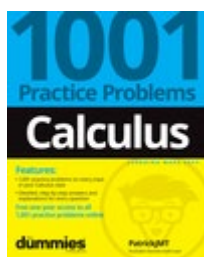
Calculus: 1001 Practice Problems For Dummies (+ Free Online Practice)

PATRICK JONES

University of Louisville, KY

Practice your way to a higher grade in Calculus!

Calculus is a hands-on skill. You've gotta use it or lose it. And the best way to get the practice you need to develop your mathematical talents is *Calculus: 1001 Practice Problems For Dummies*.



The perfect companion to *Calculus For Dummies*--and your class-- this book offers readers challenging practice problems with step-by-step and detailed answer explanations and narrative walkthroughs. You'll get free access to all 1,001 practice problems online so you can create your own study sets for extra-focused learning.

Readers will also find:

- A useful course supplement and resource for students in high school and college taking Calculus I
- Free, one-year access to all practice problems online, for on-the-go study and practice
- An excellent preparatory resource for faster-paced college classes

Calculus: 1001 Practice Problems For Dummies (+ Free Online Practice) is an essential resource for high school and college students looking for more practice and extra help with this challenging math subject.

Calculus: 1001 Practice Problems For Dummies (9781119883654) was previously published as *1,001 Calculus Practice Problems For Dummies* (9781118496718). While this version features a new *Dummies* cover and design, the content is the same as the prior release and should not be considered a new or updated product.

JULY 2022 UnknownPP
978-1-119-88365-4 PB \$29.99 (Japan)
CALCULUS

Pre-Calculus: 1001 Practice Problems For Dummies (+ Free Online Practice)

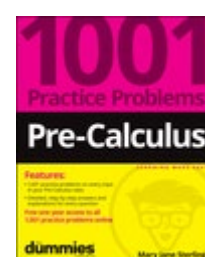
MARY JANE STERLING, PEORIA, UNITED STATES

Bradley University, Peoria, IL

Practice your way to a better grade in pre-calc

Pre-Calculus: 1001 Practice Problems For Dummies gives you 1,001 opportunities to practice solving problems from all the major topics in Pre-Calculus--in the book and online! Get extra help with tricky subjects, solidify what you've already learned, and get in-depth walk-throughs for every problem with this useful book. These practice problems and detailed answer explanations will turn you into a pre-calc problem-solving machine, no matter what your skill level. Thanks to *Dummies*, you have a resource to help you put key concepts into practice.

- Work through practice problems on all Pre-Calculus topics covered in school classes
- Read through detailed explanations of the answers to build your understanding
- Access practice questions online to study anywhere, any time
- Improve your grade and up your study game with practice, practice, practice



The material presented in *Pre-Calculus: 1001 Practice Problems For Dummies* is an excellent resource for students, as well as for parents and tutors looking to help supplement Pre-Calculus instruction.

Pre-Calculus: 1001 Practice Problems For Dummies (9781119883623) was previously published as *1,001 Pre-Calculus Practice Problems For Dummies* (9781118853320). While this version features a new *Dummies* cover and design, the content is the same as the prior release and should not be considered a new or updated product.

JULY 2022 UnknownPP
978-1-119-88362-3 PB \$29.99 (Japan)
INTRODUCTORY CALCULUS

Geometry: 1001 Practice Problems For Dummies (+ Free Online Practice)

ALLEN MA & AMBER KUANG

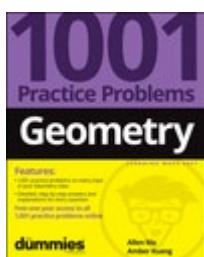
Just a few practice questions to help you square the circle in geometry

Geometry: 1001 Practice Problems For Dummies gives you 1,001 opportunities to practice solving problems from all the major topics in Geometry—in the book and online! Get extra help with tricky subjects, solidify what you've already learned, and get in-depth walk-throughs for every problem with this useful book. These practice problems and detailed answer explanations will help you master geometry from every angle, no matter what your skill level. Thanks to Dummies, you have a resource to help you put key concepts into practice.

- Work through practice problems on all Geometry topics covered class
- Step through detailed solutions for every problem to build your understanding
- Access practice questions online to study anywhere, any time
- Improve your grade and up your study game with practice, practice, practice

The material presented in *Geometry: 1001 Practice Problems For Dummies* is an excellent resource for students, as well as for parents and tutors looking to help supplement Geometry instruction.

Geometry: 1001 Practice Problems For Dummies (9781119883685) was previously published as *1,001 Geometry Practice Problems For Dummies* (9781118853269). While this version features a new *Dummies* cover and design, the content is the same as the prior release and should not be considered a new or updated product.



Graphs and Networks

S. R. KINGAN

Brooklyn College (CUNY)

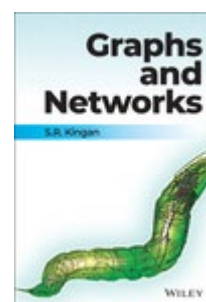
A unique blend of graph theory and network science for mathematicians and data science professionals alike.

Featuring topics such as minors, connectomes, trees, distance, spectral graph theory, similarity, centrality, small-world networks, scale-free networks, graph algorithms, Eulerian circuits, Hamiltonian cycles, coloring, higher connectivity, planar graphs, flows, matchings, and coverings, *Graphs and Networks* contains modern applications for graph theorists and a host of useful theorems for network scientists.

The book begins with applications to biology and the social and political sciences and gradually takes a more theoretical direction toward graph structure theory and combinatorial optimization. A background in linear algebra, probability, and statistics provides the proper frame of reference.

Graphs and Networks also features:

- Applications to neuroscience, climate science, and the social and political sciences
- A research outlook integrated directly into the narrative with ideas for students interested in pursuing research projects at all levels
- A large selection of primary and secondary sources for further reading
- Historical notes that hint at the passion and excitement behind the discoveries
- Practice problems that reinforce the concepts and encourage further investigation and independent work



JULY 2022 288PP
978-1-118-93718-1 CL \$100.95 (Japan)
Graph Theory

JULY 2022 UnknownPP
978-1-119-88368-5 PB \$29.99 (Japan)
GEOMETRY & TOPOLOGY

メディカル・サイエンス

Interventional Cardiology

Principles and Practice, 3rd Edition

EDITOR GEORGE D. DANGAS, EDITOR CARLO DI MARIO, EDITOR
HERBERT THIELE & EDITOR PETER BARLIS

Icahn School of Medicine at Mount Sinai, New York, NY, USA;
University of Florence, Firenze, Italy; Bremen, Germany;
University of Melbourne, Australia

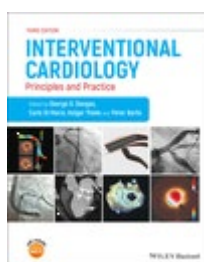
**The updated guide to understanding
and implementing today's
interventional cardiology procedures**

Minimally invasive methods of cardiovascular intervention are developing apace, propelled by unprecedented advancements in technology and procedural expertise.

Bearing exciting implications for a broad range of adjacent fields of surgery and patient care, these innovative techniques are of ever-increasing importance, not only within cardiology, but across medicine as a whole.

This third edition of *Interventional Cardiology* is designed to equip practitioners of all levels with a working knowledge of today's best and most up-to-date practices, as well as the fundamental principles that underlie their use. Expertly revised to span coronary interventions, interventional pharmacology, structural heart interventions, endovascular therapy, and more, its modular sections are accompanied by multiple-choice questions to help aid learning and self-assessment.

Whether studying for certification or already working in advanced practice, medical professionals of all kinds will benefit greatly from the practical instruction and cutting-edge knowledge found within this vital third edition.



JULY 2022 896PP
978-1-119-69734-3 CL \$350.00 (Japan)
INTERVENTIONAL CARDIOLOGY

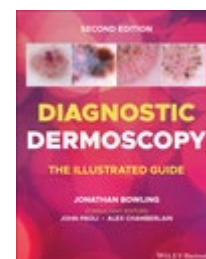
Diagnostic Dermoscopy

The Illustrated Guide, 2nd Edition

EDITOR JONATHAN BOWLING, CONSULTING EDITOR JOHN PAOLI &
CONSULTING EDITOR ALEX CHAMBERLAIN

University of Oxford, UK

Diagnostic Dermoscopy delivers a focused, practical and user-friendly guide to diagnosing the most frequently seen presentations of skin lesions practitioners encounter in clinic. The new edition offers a comprehensive collection of strategies to find and diagnose skin cancers at an earlier point in their evolution, and to increase confidence in diagnosing benign lesions to reduce both patient morbidity and mortality.



The many full-colour illustrations included within are standardised to aid in recognition, while the adjoining dermoscopy images focus on critical diagnostic features which, when combined with the provided clinical information, are sufficient for specific diagnoses or narrow differential diagnoses. The new edition is formatted to aid teledermoscopy education, including many illustrated cases for reference. *Diagnostic Dermoscopy* offers:

- A comprehensive overview of melanocytic lesions, melanoma presentations, and non-melanocytic lesions
- Thorough explorations of basal cell carcinoma and keratinocyte dysplasia
- Practical discussions of several special sites, including acral, nail, facial, and scalp lesions, as well as trichoscopy
- In-depth examinations of vascular lesions, inflammoscopy for general dermatology, and entomodermoscopy
- Detailed illustrations of genetic and iatrogenic lesions
- Tips from international experts in melanoma diagnosis

Diagnostic Dermoscopy is the ideal resource for dermatologists, primary care physicians, plastic surgeons and allied health practitioners involved in skin lesion and melanoma diagnosis.

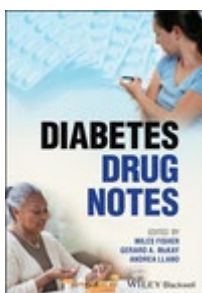
JULY 2022 336PP
978-1-118-93048-9 PB \$100.00 (Japan)
DERMATOLOGY

Diabetes Drug Notes

EDITOR MILES FISHER, EDITOR GERARD A. MCKAY & EDITOR ANDREA LLANO

Royal Alexandra Hospital, Paisley, UK; Glasgow Royal Infirmary, Glasgow, UK

Diabetes is becoming more common in both older and younger generations and in keeping with this escalation in cases, there are an ever increasing number of drugs and drug classes that are suitable to treat hyperglycaemia. In a unique blend of diabetes practice, clinical pharmacology, and cardiovascular medicine, *Diabetes Drug Notes* describes the principles of clinical pharmacology with regards to diabetes prescribing. Each drug class for the treatment of diabetes is covered in detail, along with the effect on the cardiovascular and renal systems caused by each drug. Building upon the success of their "Drug Notes" series for *Practical Diabetes* and their "Drugs for Diabetes" series in the *British Journal of Cardiology*, the team of experts focuses on the glycaemic management of type 1 and type 2 diabetes, with other effects of antidiabetic drugs covered as well.



Diabetes Drug Notes also includes:

- Comprehensive and up-to-date coverage of the drugs for the glycaemic management of patients with type 1 or type 2 diabetes
- Expert reflection on prescribing considerations for special groups, as well as common pitfalls in prescribing
- Detailed case histories to illustrate relevant information
- Summaries of recent guidelines related to diabetic intervention

Diabetes Drug Notes is a user-friendly guide for a general diabetes medical, nursing, and pharmacology readership, as well as those who support them.

JULY 2022 400PP
978-1-119-78500-2 PB \$90.00 (Japan)
Diabetes

Surgical Critical Care and Emergency Surgery

Clinical Questions and Answers, 3rd Edition

EDITOR FORREST "DELL" MOORE, EDITOR PETER RHEE & EDITOR CARLOS J. RODRIGUEZ

St. Joseph's Hospital and Medical Center, Arizona; University of Arizona

In this newly revised edition of *Surgical Critical Care and Emergency Surgery*, a distinguished team of emergency surgeons deliver a one-of-a-kind question-and-answer book on the growing specialty of surgical critical care and acute surgery, ideal for those caring for the critically ill and injured surgical patient.



This book reviews surgical critical care, emergency surgery, burns and trauma, and includes full color, high-quality surgical photographs to aid understanding. Readers will also benefit from access to a website that offers additional topics and tests, as well as an archive of all test questions and answers from previous editions.

The authors' focus throughout is on the unique problems and complexity of illnesses of the critically ill and injured surgical patient, and the specialist daily care that such patients require.

Perfect for the acute care surgeon, surgical intensivist and those in training, *Surgical Critical Care and Emergency Surgery* will also earn a place in the libraries of those working in or with an interest in critical care.

JULY 2022 592PP
978-1-119-75675-0 PB \$99.95 (Japan)
INTENSIVE / CRITICAL CARE

Practical Transfusion Medicine

6th Edition

EDITOR MICHAEL F. MURPHY, EDITOR DAVID J. ROBERTS, EDITOR MARK H. YAZER & EDITOR NANCY M. DUNBAR

Worldwide Clinical Trials, Atlanta, Georgia, and London, UK

The pace of change in transfusion medicine is relentless, with new scientific and technological developments and continuing efforts to improve transfusion practice. This sixth edition of *Practical Transfusion Medicine* has been updated significantly to reflect the rapid changes in transfusion medicine since the fifth edition was published in 2017.



The primary purpose of this edition remains the same as the first: to provide a comprehensive guide to transfusion medicine. This book contains more depth of information than standard handbooks on transfusion medicine, whilst being more concise and approachable than a standard reference text.

This book covers the principles of transfusion medicine, the complications of transfusion, practice in blood centres and hospitals and clinical transfusion practice. This sixth edition includes a new section on patient blood management, cellular and tissue therapy, organ transplantation and the development of the evidence base for transfusion. It also features a new chapter on transfusion-associated circulatory overload to underline its importance as a complication of transfusion, and a reconfiguration of the section on clinical transfusion practice to allow consideration of the transfusion management of medical, surgical and haematology patients with and without bleeding.

This sixth edition of *Practical Transfusion Medicine* provides accessible and comprehensive coverage of the field of transfusion medicine. It is a standalone text that will be useful to clinical and scientific staff: not only for trainees who require an overview of the field, but also for established practitioners who are involved in some aspect of transfusion medicine and require a comprehensive, accessible reference book.

JULY 2022 672PP
978-1-119-66581-6 CL \$170.00 (Japan)
BLOOD TRANSFUSION

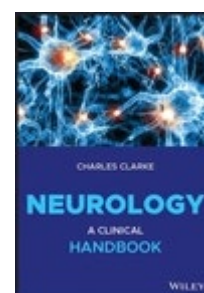
Neurology

A Clinical Handbook

CHARLES CLARKE

National Hospital For Neurology and Neurosurgery, University College Hospitals, London

"This Handbook is a sparkling addition to the neurological library, a concise and clear guide to clinical practice in neurology, written in elegant prose, a tribute to Queen Square and to the contribution that both Hospital and Institute have made to neurology. It is the encapsulation of wisdom gained in a long career. For practitioners in the art of neurology, junior and senior this is required reading."



--Simon Shorvon, National Hospital for Neurology & Neurosurgery, Queen Square

Neurology: A Clinical Handbook is a practical text, for both neurologists and general physicians, in the wards, the office or at home. This book spans the breadth of neurology and its challenges, for those who require a rapid resource in accessible language.

The *Handbook* is also aimed at those considering entering neurology, neurophysiology and neurorehabilitation and for medical trainees and consultants in many specialities. It is an invaluable source for the MRCP, a ready-made reference for clinical practice and for the specialist nurse and therapist.

The book deals with essentials - of neuroanatomy, clinical examination, mechanisms of neurological disease and the major issues of dementia and stroke in an ageing population. More specific aspects of neurology are also addressed, including the specialist fields of nerve and muscle disease, the spinal cord, headache and the cranial nerves, infection in the nervous system, MS and sleep disorders. The allied disciplines of neurorehabilitation, neuropsychiatry, neuro-oncology, uro-neurology, neuro-otology and neuro-ophthalmology are also covered. The aim is to provide both an introduction and a summary - of general neurological practice and the specialist aspects of neurology and neuroscience.

JULY 2022 480PP
978-1-119-23572-9 PB \$80.00 (Japan)
Neurology

機械工学

Multiscale Modelling and Optimisation of Materials and Structures

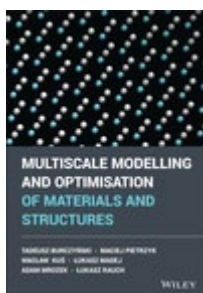
TADEUSZ BURCZYNSKI & MACIEJ PIETRZYK

Silesian University of Technology; AGH - University of Science & Technology

Addresses the very topical, crucial and original subject of parameter identification and optimization within multiscale modeling methods

Multiscale Modelling and Optimization of Materials and Structures presents an important and challenging area of research that enables the design of new materials and structures with better quality, strength and performance parameters as well as the creation of reliable models that take into account structural, material and topological properties at different scales. The authors' approach is four-fold; 1) the basic principles of micro and nano scale modeling techniques; 2) the connection of micro and/or nano scale models with macro simulation software; 3) optimization development in the framework of multiscale engineering and the solution of identification problems; 4) the computer science techniques used in this model and advice for scientists interested in developing their own models and software for multiscale analysis and optimization.

The authors present several approaches such as the bridging and homogenization methods, as well as the general formulation of complex optimization and identification problems in multiscale modelling. They apply global optimization algorithms based on robust bioinspired algorithms, proposing parallel and multi-subpopulation approaches in order to speed-up computations, and discuss several numerical examples of multiscale modeling, optimization and identification of composite and functionally graded engineering materials and bone tissues. *Multiscale Modelling and Optimization of Materials and Structures* is thereby a valuable source of information for young scientists and students looking to develop their own models, write their own computer programs and implement them into simulation systems.



JULY 2022 336PP
978-1-119-97592-2 CL \$175.00 (Japan)
Mechanical Engineering - Design

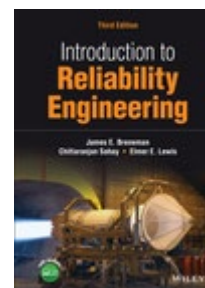
Introduction to Reliability Engineering

3rd Edition

ELMER E. LEWIS, CHITTARANJAN SAHAY & JAMES E. BRENNEMAN

A complete revision of the classic text on reliability engineering, written by an expanded author team with increased industry perspective

Introduction to Reliability Engineering provides a thorough and well-balanced overview of the fundamental aspects of reliability engineering and describes the role of probability and statistical analysis in predicting and evaluating reliability in a range of engineering applications. Covering both foundational theory and real-world practice, this classic textbook helps students of any engineering discipline understand key probability concepts, random variables and their use in reliability, Weibull analysis, system safety analysis, reliability and environmental stress testing, redundancy, failure interactions, and more.



Extensively revised to meet the needs of today's students, the Third Edition fully reflects current industrial practices and provides a wealth of new examples and problems that now require the use of statistical software for both simulation and analysis of data. A brand-new chapter examines Failure Modes and Effects Analysis (FMEA) and the Reliability Testing chapter has been greatly expanded, while new and expanded sections cover topics such as applied probability, probability plotting with software, the Monte Carlo simulation, and reliability and safety risk. Throughout the text, increased emphasis is placed on the Weibull distribution and its use in reliability engineering.

Introduction to Reliability Engineering, Third Edition remains the perfect textbook for both advanced undergraduate and graduate students in all areas of engineering and manufacturing technology.

JUNE 2022 640PP
978-1-119-64056-1 CL \$140.00 (Japan)
FAILURE FRACTURE

Introduction to UAV Systems

5th Edition

PAUL G. FAHLSTROM, THOMAS J. GLEASON & MOHAMMAD H. SADRAEY

UAV Manager US Army Material Command (ret); Gleason Research Associates, Inc; Daniel Webster College, USA

The latest edition of the leading resource on unmanned aerial vehicle systems

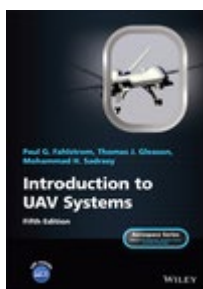
In the newly revised Fifth Edition of *Introduction to UAV Systems*, an expert team of aviators, engineers, and researchers delivers the fundamentals of UAV systems for both professionals and students in UAV courses. Suitable for students in Aerospace Engineering programs, as well as Flight and Aeronautics programs, this new edition now includes end-of-chapter questions and online instructor ancillaries that make it an ideal textbook.

As the perfect complement to the author's *Design of Unmanned Aerial Systems*, this book includes the history, classes, and missions of UAVs. It covers fundamental topics, like aerodynamics, stability and control, propulsion, loads and structures, mission planning, payloads, and communication systems. Brand-new materials in areas including autopilots, quadcopters, payloads, and ground control stations highlight the latest industry technologies.

Perfect for professional aeronautical and aerospace engineers, as well as students and instructors in courses like Unmanned Aircraft Systems Design and Introduction to Unmanned Aerial Systems, *Introduction to UAV Systems* is an indispensable resource for anyone seeking coverage of the latest industry advances and technologies in UAV and UAS technology.

SERIES: AEROSPACE SERIES

JUNE 2022 464PP
978-1-119-80261-7 CL \$134.95 (Japan)
AERONAUTIC & AEROSPACE ENGINEERING



Bosch Automotive Handbook

11th Edition

ROBERT BOSCH GMBH

The latest edition of the leading automotive engineering reference

In the newly revised Eleventh Edition of the *Bosch Automotive Handbook*, a team of accomplished automotive experts delivers a comprehensive and authoritative resource for automotive engineers, designers, technicians, and students alike.



Since 1936, the *Bosch Automotive Handbook* has been providing readers with of-the-moment coverage of the latest mechanical and research developments in automotive technology, from detailed technical analysis to the newest types of vehicles.

This newest edition is packed with over 2,000 pages of up-to-date automotive info, making it the go-to reference for both engineers and technicians. It includes detailed and simple explanations of automotive technologies and offers over 1,000 diagrams, illustrations, sectional drawings, and tables.

Readers will also find:

- 200 pages of new content, including the electrification of the powertrain
- Additional coverage on new driver assistance systems and the automated detection of vehicles' surroundings
- Updates on the on-board power supply for commercial vehicles
- New discussions of autonomous vehicles, as well as additional contributions from experts at automotive manufacturers, universities, and Bosch GmbH

Perfect for design engineers, mechanics and technicians, and other automotive professionals, the latest edition of the *Bosch Automotive Handbook* will also earn a place on the bookshelves of car enthusiasts seeking a quick and up-to-date guide to all things automotive.

JULY 2022 2010PP
978-1-119-91190-6 CL \$85.00 (Japan)
AUTOMOTIVE ENGINEERING

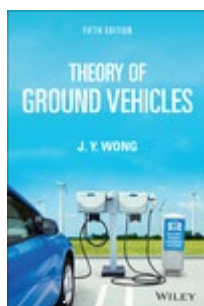
Theory of Ground Vehicles

5th Edition

J. Y. WONG

Carleton University, Ontario

Theory of Ground Vehicles, Fifth Edition has been comprehensively updated to present recent advances in technology of road and off-road vehicles, and in methodology for analysis of ground vehicle dynamics. The technical data from previous editions has been updated, including data on fuel (energy) consumption and exhaust emission of cars and sport utility vehicles, with internal combustion engines, autarkic and plug-in hybrid electric drives, or battery-electric drives. Driving automation and technologies associated with various levels of driving automation is also now covered. *Theory of Ground Vehicles Fifth Edition* provides a foundation of engineering principles for analysis of performance, handling, and ride of both road and off-road vehicles in a single volume. Applications are provided throughout, and new and updated examples and problems are included. A solutions manual will be available on a companion website.



JULY 2022 624PP
978-1-119-71970-0 CL \$150.00 (Japan)
AUTOMOTIVE ENGINEERING

Control Theory Applications for Production Systems

Time and Frequency Methods for Analysis and Design

NEIL A. DUFFIE

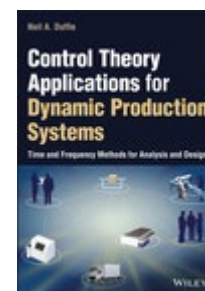
Apply the fundamental tools of linear control theory to model, analyze, design, and understand the behavior of dynamic production systems

In Control Theory Applications for Dynamic Production Systems: Time and Frequency Methods for Analysis and Design, distinguished

manufacturing engineer Dr. Neil A. Duffie delivers a comprehensive explanation of how core concepts of control theoretical analysis and design can be applied to production systems. Time-based perspectives on response to turbulence are augmented by frequency-based perspectives, fostering new understanding and guiding design of decision-making. The time delays intrinsic to decision making and decision implementation in production systems are addressed throughout.

Readers will discover methods for calculating time response and frequency response, modeling using transfer functions, assessing stability, and design of decision making for closed-loop production systems. The author has included real-world examples emphasizing the different components of production systems and illustrating how practical results can be quickly obtained using straightforward Matlab programs (which can easily be translated to other platforms).

Avoiding unnecessary theoretical jargon, this book fosters an in-depth understanding of key tools of control system engineering. Perfect for production, manufacturing, industrial, and control system engineers, *Control Theory Applications for Dynamic Production Systems* will also earn a place in the libraries of students taking advanced courses on industrial system digitalization, dynamics, and design.



JULY 2022 336PP
978-1-119-86283-3 CL \$140.00 (Japan)
Mechanical Engineering Special Topics

Product Development

An Engineer's Guide to Business Considerations,
Real-World Product Testing, and Launch

DAVID V. TENNANT

An insightful development roadmap to help engineers and businesspeople successfully bring a product to market

In *Product Development: An Engineer's Guide to Business Considerations, Real-World Product Testing, and Launch*, accomplished project manager, engineer, and business strategist David V. Tennant delivers a comprehensive walkthrough of the full scope of product development activities, from initial business considerations to real-world product testing and launch. The book covers key product development considerations like determining the target market, working with a product development team, management challenges, funding, user identification, ergonomics, product design, testing, and launch.

The distinguished author presents the material in the form of practical, hands-on tutorials with case studies featuring large corporations and small- and mid-size firms. He also includes team exercises and question-and-answer features to help early-career and aspiring engineers acquire the interdisciplinary and inter-department coordination skills they'll require to successfully bring a new product to market.

Readers will learn about the critical roles played by the engineering, marketing, and finance departments, as well as each stage of the product development process. Perfect for early- and mid-career engineers working in product-oriented companies, as well as marketers and other business professionals seeking to understand engineering best practices, *Product Development* is the ideal reference for use in upper-level undergraduate *Product Development* courses.



Designing Weldments

EDITOR RAMESH SINGH

In modern day construction welding is the primary methods to join various members of any structure. Welds are required to meet various types of load in tension, compression, torsion, and perform in static or cyclic loading conditions. The weld has to be at least as strong as the parent metal to meet the demands of various stress working on the structure. It should meet the structural requirement, add value to the integrity of the structure and prevent failures.

However, many design engineers lack even a fundamental insight or a basic understanding of essential welding processes and design requirements. Simply copying a few joint configurations in a drawing will not suffice.

All-embracing and readable, **Designing Weldments** delivers a deeper understanding of number of design factors that play a critical role in the design. The book clarifies welding design principals and applications. With this reference in-hand, designers expert knowledge to consider very early on in the project implications of the choice of what type of weld to use for joining structural members and how the component is made. The author explains the many welding techniques developed over the years, as well as some of which are still evolving.

SEPTEMBER 2022 UnknownPP
978-1-119-86515-5 CL \$225.00 (Japan)
Joining, Welding and Adhesion

JULY 2022 240PP
978-1-119-78013-7 CL \$85.00 (Japan)
Mechanical Engineering Special Topics

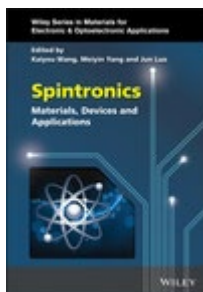
Spintronics

Materials, Devices, and Applications

EDITOR KAIYOU WANG, EDITOR MEIYIN YANG & EDITOR JUN LUO

Discover the latest advances in spintronic materials, devices, and applications

In *Spintronics: Materials, Devices and Applications*, a team of distinguished researchers delivers a holistic introduction to spintronic effects within cutting-edge materials and applications. Containing the perfect balance of academic research and practical application, the book discusses the potential--and the key limitations and challenges--of spintronic devices.



The latest entry in the Wiley Series in Materials for Electronic and Optoelectronic Applications, *Spintronics: Materials, Devices and Applications* explores giant magneto-resistance (GMR) and tunneling magnetic resistance (TMR) materials, spin-transfer torque and spin-orbit torque materials, spin oscillators, and spin materials for use in artificial neural networks. Applications in multi-ferroelectric and antiferromagnetic materials are presented as well.

Perfect for advanced students and researchers in materials science, physics, electronics, and computer science, *Spintronics: Materials, Devices and Applications* will also earn a place in the libraries of professionals working in the manufacture of optics, photonics, and nanometrology equipment.

SERIES: WILEY SERIES IN MATERIALS FOR ELECTRONIC & OPTOELECTRONIC APPLICATIONS

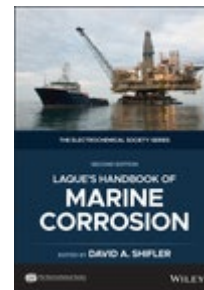
JULY 2022 324PP
978-1-119-69897-5 CL \$160.00 (Japan)
Electronic Materials

La Que's Handbook on Marine Corrosion

2nd Edition

EDITOR DAVID A. SHIFLER

Extensively updated throughout, the second edition of *La Que's Handbook of Marine Corrosion* remains the standard single-source reference on the unique nature of seawater as a corrosive environment. Designed to help readers reduce operational and life cycle costs for materials in marine environments, this authoritative resource provides clear guidance on design, materials selection, and implementation of corrosion control engineering practices for materials in atmospheric, immersion, or wetted marine environments.



Completely rewritten for the 21st century, this new edition reflects current environmental regulations, best practices, materials, and processes, with special emphasis placed on the engineering, behavior, and practical applications of materials. Divided into three parts, the book first explains the fundamentals of corrosion in marine environments, including atmospheric corrosion, erosion, microbiological corrosion, fatigue, environmental cracking, and cathodic delamination. The second part discusses corrosion control methods and materials selection that can mitigate or eliminate corrosion in different marine environments. The third section provides the reader with specific applications of corrosion engineering to structures, systems, or components that exist in marine environments.

Written in a clear and understandable style, *La Que's Handbook of Marine Corrosion, Second Edition* is an indispensable resource for engineers and materials scientists in disciplines spanning the naval, maritime, commercial, shipping industries, particularly corrosion engineers, ship designers, naval architects, marine engineers, oceanographers, and other professionals involved with products that operate in marine environments.

SERIES: THE ECS SERIES OF TEXTS AND MONOGRAPHS

JULY 2022 768PP
978-1-119-78883-6 CL \$245.00 (Japan)
CORROSION

Bioinspired Materials and Functional Surfaces

Design, Fabrication, Characterization, and Applications

ZHIWU HAN

Gives a comprehensive description on the biological model, basic physical models, fabrication/characterization of bioinspired materials and their functions.

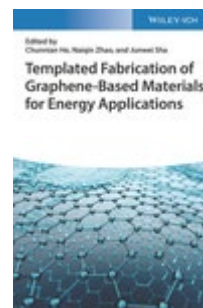


JULY 2022 320PP
978-3-527-35021-6 CL \$165.00 (Japan)
Thin Films, Surfaces & Interfaces

Graphene-Based Materials Fabricated by Template-Assisted Methods

CHUNNIAN HE, NAIQIN ZHAO & JUNWEI SHA

An illuminating look at the latest research on graphene-based materials and their applications in energy



In *Templated Fabrication of Graphene-Based Materials for Energy Applications*, a team of distinguished materials scientists delivers a unique and topical exploration of a versatile fabrication method used to create high-quality graphene and composites. The book offers a three-part approach to current topics in graphene fabrication.

The first part introduces graphene-based materials and is followed by cutting-edge discussions of template methods used in the preparation of graphene-based materials. The editors conclude with the latest research in the area of graphene-based materials applications in various energy-related pursuits.

Readers will find relevant content that refers to original research conducted by the editors themselves, as well as work from up-and-coming and established researchers that explores the most interesting horizons in the study of graphene-based materials. The book also provides:

- A thorough introduction to graphene, including its history and physical properties
- An in-depth analysis of current graphene synthesis strategies, including the classification of graphene preparations
- Expansive discussions of various kinds of template methods for graphene production, including the study of porous metals and the preparation of graphene in large quantities

Perfect for materials scientists, electrochemists, and solid-state physicists, *Templated Fabrication of Graphene-Based Materials for Energy Applications* will also earn a place in the libraries of physical chemists and professionals in the electrotechnical industry.

JULY 2022 304PP
978-3-527-34600-4 CL \$165.00 (Japan)
Carbon Materials

ナノテクノロジー

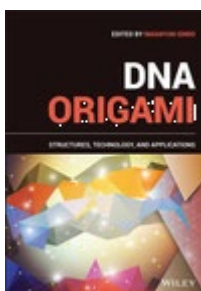
DNA Origami

Structures, Technology, and Applications

EDITOR MASAYUKI ENDO

Discover the impact and multidisciplinary applications of this subfield of DNA nanotechnology

DNA origami refers to the technique of assembling single-stranded DNA template molecules into target two- and three-dimensional shapes at the nanoscale. This is accomplished by annealing templates with hundreds of DNA strands and then binding them through the specific base-pairing of complementary bases. The inherent properties of these DNA molecules--molecular recognition, self-assembly, programmability, and structural predictability--has given rise to intriguing applications from drug delivery systems to uses in circuitry in plasmonic devices.



The first book to examine this important subfield, *DNA Origami* brings together leading experts from all fields to explain the current state and future directions of this cutting-edge avenue of study. The book begins by providing a detailed examination of structural design and assembly systems and their applications. As DNA origami technology is growing in popularity in the disciplines of chemistry, materials science, physics, biophysics, biology, and medicine, interdisciplinary studies are classified and discussed in detail. In particular, the book focuses on DNA origami used for creating new functional materials (combining chemistry and materials science; DNA origami for single-molecule analysis and measurements (as applied in physics and biophysics); and DNA origami for biological detection, diagnosis and therapeutics (medical and biological applications).

Given the wide scope found in this groundbreaking work, *DNA Origami* is a perfect resource for nanotechnologists, biologists, biophysicists, chemists, materials scientists, medical scientists, and pharmaceutical researchers.

JULY 2022 464PP
978-1-119-68254-7 CL \$195.00 (Japan)
Nanobiotechnology

ナーシング

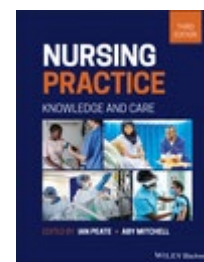
Nursing Practice

Knowledge and Care, 3rd Edition

EDITOR IAN PEATE, GIBRALTAR & EDITOR ABY MITCHELL

School of Nursing and Midwifery

In this updated third edition of the successful and definitive nursing textbook, *Nursing Practice* is designed to support the student throughout the entire nursing degree. Structured around the Nursing and Midwifery Council Code of Conduct and the latest Standards for Education, it explores a range of clinical and professional issues that the student will need to know in one complete and accessible volume.



Written by a number of expert practitioners and academics who are passionate about the art and science of nursing, the book includes:

- How the field of health and social care has changed since the second edition of this popular text was published
- A systems approach to make learning and application easier
- Thorough coverage of maternity care, surgical care, cancer care, nutrition, skin integrity, medicine administration, pain management and more
- The elements, principles, art and science of nursing care

Nursing Practice provides invaluable information to enable student nurses, as well as those who are registered practitioners and members of the extended nursing family such as trainee nursing associates, to develop a deeper understanding of patients' needs and to ensure that they are practicing safely and effectively.

JULY 2022 704PP
978-1-119-80075-0 PB \$50.95 (Japan)
INTRODUCTIONS TO NURSING

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.

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

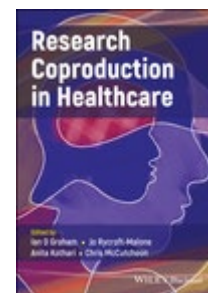
Research Coproduction in Healthcare

EDITOR IAN D. GRAHAM, EDITOR JO RYCROFT-MALONE, EDITOR ANITA KOTHARI & EDITOR CHRIS MCCUTCHEON

University of Ottawa, Canada; Bangor University

A ground-breaking and rigorous presentation of coproduction in research

In *Research Coproduction in Healthcare*, a team of experienced applied health researchers and decision makers deliver a robust exploration of collaborative ways on how to plan and conduct healthcare research. The book explores relational skills that are essential to achieving successful coproduction, including trust through humility, ongoing communication, emotional intelligence, and the structures and processes required to work with a range of knowledge users. It also sets out the fundamentals of research coproduction and its transformative potential for more effective and efficient health systems and improved health outcomes.



Readers will also find:

- A thorough introduction to the planning, implementation and evaluation of research coproduction, including how to write a successful research coproduction proposal
- Comprehensive explorations of capacity-building and infrastructure requirements
- Practical discussions of the theory of coproduction, including treatments of power and tokenism
- In-depth reflections on the essential building blocks of research coproduction

Perfect for researchers, knowledge users, funders, trainees and organizations, *Research Coproduction in Healthcare* will also earn a place in the libraries of coproduction teams, policymakers, clinicians, and health system managers.

JULY 2022 276PP
978-1-119-75723-8 PB \$65.00 (Japan)
Nursing Research

物理学

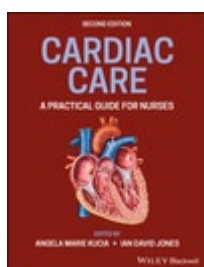
Cardiac Care

A Practical Guide for Nurses, 2nd Edition

ANGELA KUCIA & IAN JONES, UNITED KINGDOM

Department of Cardiology, The Lyell McEwin Hospital ; School of Nursing, University of Salford

In the newly revised Second Edition of *Cardiac Care: A Practical Guide for Nurses*, a team of dedicated and widely recognised nursing medical experts from around the world delivers an invaluable and practical guide for nurses who practice in cardiac care environments.



This latest edition includes brand-new chapters on structural heart disease, Takotsubo syndrome, and non-obstructive coronary artery disease. While also covering the essential topics necessary for the proper provision of cardiac care, this practical guide for nurses provides:

- A thorough introduction to cardiac practice, including the mechanics of the cardiovascular systems and the regulation of cardiac and vascular function
- Comprehensive explorations of cardiovascular disease assessment, including risk factors for cardiovascular disease, laboratory tests, and diagnostic procedures
- Practical discussions of the detection and management of heart rhythm disturbances, including ECG interpretation, cardiac monitoring, and arrhythmias
- In-depth examinations of the detection and management of acute coronary syndromes, including chest pain assessment and discharge planning
- Chapter overviews, key concepts, learning objectives and activities, with critical points intermingled throughout

Perfect for practicing nurses who care for patients with cardiac conditions, *Cardiac Care: A Practical Guide for Nurses* will also earn a place in the libraries of other allied health professionals in cardiac care settings.

JULY 2022 448PP
978-1-119-11778-0 PB \$64.95 (Japan)
CARDIOLOGY NURSING

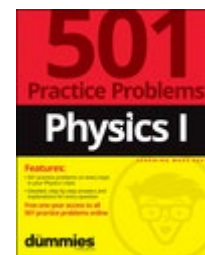
Physics I: 501 Practice Problems For Dummies (+ Free Online Practice)

THE EXPERTS AT DUMMIES, HOBOKEN, UNITED STATES

Wiley

Overcome your study inertia and polish your knowledge of physics

Physics I: 501 Practice Problems For Dummies gives you 501 opportunities to practice solving problems from all the major topics covered you Physics I class--in the book and online! Get extra help with tricky subjects, solidify what you've already learned, and get in-depth walk-throughs for every problem with this useful book. These practice problems and detailed answer explanations will help you succeed in this tough-but-required class, no matter what your skill level. Thanks to Dummies, you have a resource to help you put key concepts into practice.



- Work through practice problems on all Physics I topics covered in school classes
- Step through detailed solutions to build your understanding
- Access practice questions online to study anywhere, any time
- Improve your grade and up your study game with practice, practice, practice

The material presented in *Physics I: 501 Practice Problems For Dummies* is an excellent resource for students, as well as parents and tutors looking to help supplement Physics I instruction.

Physics I: 501 Practice Problems For Dummies (9781119883715) was previously published as *Physics I Practice Problems For Dummies* (9781118853153). While this version features a new *Dummies* cover and design, the content is the same as the prior release and should not be considered a new or updated product.

JULY 2022 UnknownPP
978-1-119-88371-5 PB \$29.99 (Japan)
GENERAL PHYSICS

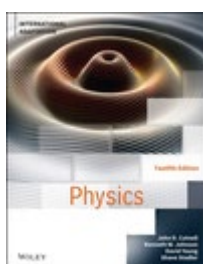
Physics

12th Edition, International Adaptation

JOHN D. CUTNELL, KENNETH W. JOHNSON, DAVID YOUNG & SHANE STADLER

Southern Illinois University at Carbondale; Southern Illinois University at Carbondale; Cytoclonal Pharmaceuticals Inc.

The newly revised Twelfth Edition of Cutnell's Physics delivers an effective and accessible introduction to college and university physics. It contains easy-to follow explanations of critical math and problem-solving concepts. From kinematics to work and energy, temperature, heat, electricity, magnetism and optics as well as foundational concepts in more advanced subjects like special relativity, Physics is the ideal introductory text for students from any background. The greatest strength of the text is the synergistic relationship it develops between problem solving and conceptual understanding. The book lays emphasis on building relevance of physics in day-to-day living and highlights the physics principles that come into play. A wide range of applications that are biomedical in nature and others that deal with modern technology.



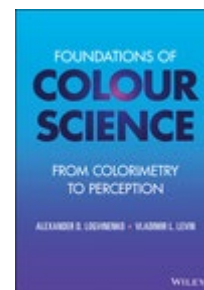
JULY 2022 1120PP
978-1-119-82057-4 PB \$66.99 (Japan)
GENERAL PHYSICS

Foundations of Colour Science

From Colorimetry to Perception

ALEXANDER D. LOGVINENKO

Presents the science of colour from new perspectives and outlines results obtained from the authors' work in the mathematical theory of colour



This innovative volume summarizes existing knowledge in the field, attempting to present as much data as possible about colour, accumulated in various branches of science (physics, psychophysics, colorimetry, physiology) from a unified theoretical position. Written by a colour specialist and a professional mathematician, the book offers a new theoretical framework based on functional analysis and convex analysis. Employing these branches of mathematics, instead of more conventional linear algebra, allows them to provide the knowledge required for developing techniques to measure colour appearance to the standards adopted in colorimetric measurements. The authors describe the mathematics in a language that is understandable for colour specialists and include a detailed overview of all chapters to help readers not familiar with colour science.

Divided into two parts, the book first covers various key aspects of light colour, such as colour stimulus space, colour mechanisms, colour detection and discrimination, light-colour perception typology, and light metamerism. The second part focuses on object colour, featuring detailed coverage of object-colour perception in single- and multiple-illuminant scenes, object-colour solid, colour constancy,

metamer mismatching, object-colour indeterminacy and more. Throughout the book, the authors combine differential geometry and topology with the scientific principles on which colour measurement and specification are currently based and applied in industrial applications.

Foundations of Colour Science: From Colorimetry to Perception is an invaluable resource for academics, researchers, industry professionals and undergraduate and graduate students with interest in a mathematical approach to the science of colour.

JULY 2022 560PP
978-1-119-88591-7 CL \$185.00 (Japan)
Optics & Photonics

哲学

Introduction to Sonar Transducer Design

JOHN C COCHRAN

A comprehensive intro to sonar transducer design, complete with real world examples, step-by-step instruction, and detailed mathematical review

In *Introduction to Sonar Transducer Design*, renowned sensor engineer Dr. John C. Cochran delivers an instructive and comprehensive exploration of the foundations of sonar transducer design perfect for beginning and experienced professional transducer designers. The book offers a detailed mathematical review of the subject, as well as fulsome design examples.

Beginning with a description of acoustic wave propagation, along with a review of radiation from a variety of sources, the book moves on to discuss equivalent circuit models that explain wave propagation in solids and liquids. The book reviews examples of projectors and hydrophones accompanied by complete mathematical solutions. All included math is developed from first principles to a final solution using an intuitive, step-by-step approach.

Introduction to Sonar Transducer Design offers professionals and students the analytical tools and assumptions required for start-to-finish transducer design. It also provides:

- A thorough introduction to acoustic waves and radiation, including small signals, linear acoustics, the equations of continuity, motion, and the wave equation in a fluid media, and integral formulations
- Comprehensive explorations of the elements of transduction, including various forms of impedance, and mechanical and acoustical equivalent circuits, as well as their combination
- Practical discussions of waves in solid media, including homogeneous, isotropic, elastic, and solid media, piezo-electricity and piezo-electric ceramic materials, and waves in non-homogeneous, piezo-electric media

Perfect for sonar system engineers, particularly those involved in defense, *Introduction to Sonar Transducer Design* will also earn a place in the libraries of acoustic, audio, underwater communication, and naval engineers.

JULY 2022 UnknownPP
978-1-119-85105-9 CL \$160.00 (Japan)
Physics of Acoustics

On the Essence of Language and the Question of Art

MARTIN HEIDEGGER & TRANSLATED BY ADAM KNOWLES

READERSHIP: Students and scholars in philosophy, cultural theory and the wider humanities; anyone interested in Heidegger's work

Martin
Heidegger
On the
Essence of
Language
and the
Question
of Art

JULY 2022 200PP
978-1-5095-3598-9 CL \$35.00 (Japan)
General Philosophy

This is Environmental Ethics: An Introduction

WENDY LYNNE LEE & STEVEN D. HALES

Bloomsburg University

Provides students and scholars with a comprehensive introduction to the growing field of environmental philosophy and ethics

Mitigating the effects of climate change will require global cooperation and lasting commitment. Of the many disciplines addressing the ecological crisis, philosophy is perhaps best suited to develop the conceptual foundations of a viable and sustainable environmental ethic. *This is Environmental Ethics* provides an expansive overview of the key theories underpinning contemporary discussions of our moral responsibilities to non-human nature and living creatures.

Adopting a critical approach, author Wendy Lynne Lee closely examines major moral theories to discern which ethic provides the compass needed to navigate the social, political, and economic challenges of potentially catastrophic environmental transformation, not only, but especially the climate crisis. Lee argues that the ethic ultimately adopted must make the welfare of non-human animals and plant life a priority in our moral decision-making, recognizing that ecological conditions form the existential conditions of all life on the planet. Throughout the text, detailed yet accessible chapters demonstrate why philosophy is relevant and useful in the face of an uncertain environmental future.

This is Environmental Ethics is essential reading for undergraduate students in courses on philosophy, geography, environmental studies, feminist theory, ecology, human and animal rights, and social justice, as well as an excellent graduate-level introduction to the key theories and thinkers of environmental philosophy.



SERIES: THIS IS PHILOSOPHY

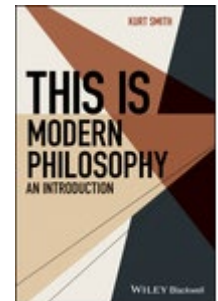
JULY 2022 336PP
978-1-119-12270-8 PB \$34.95 (Japan)
Environmental Ethics

This Is Modern Philosophy

An Introduction

KURT SMITH

Explore essential contributions to modern philosophy! In *This Is Modern Philosophy: An Introduction*, renowned philosopher and author Kurt Smith delivers a startlingly insightful and comprehensive exploration of the issues, debates, and discussions animating modern philosophy. Thought provoking commentary accompanies carefully curated selections from influential philosophers who represent the best that contemporary philosophy has to offer.



SERIES: THIS IS PHILOSOPHY

JULY 2022 UnknownPP
978-1-118-68690-4 PB \$34.95
17th & 18th Century Philosophy

心理学

Best Practices in School Neuropsychology

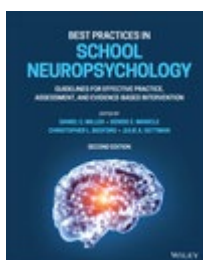
Guidelines for Effective Practice, Assessment, and Evidence-Based Intervention, 2nd Edition

EDITOR DANIEL C. MILLER, EDITOR DENISE E. MARICLE, EDITOR CHRISTOPHER L. BEDFORD & EDITOR JULIE A. GETTMAN

Texas Woman's University, Denton, TX

The latest edition of the gold standard in school neuropsychology references

In the newly revised Second Edition of *Best Practices in School Neuropsychology: Guidelines for Effective Practice, Assessment, and Evidence-Based Intervention*, a team of psychological experts delivers a thoroughly updated treatment of modern issues and challenges in school neuropsychology. The editors provide comprehensive discussions of current assessment and intervention models, best practices in assessing cognitive processes, and the important task of collaborating with parents, educators, and other professionals.



This latest edition includes:

- Explorations of the unique challenges posed by working with culturally diverse student populations
- Clinical advice for learning specialists and neuropsychologists engaged with special populations and students with academic disabilities, processing deficits, or medical disorders
- New chapters on assessment and intervention with children suffering from trauma or substance abuse

Perfect for psychologists, neuropsychologists, clinicians, and academics working in or studying school environments, *Best Practices in School Neuropsychology* is a must-read reference for practitioners working with children and students who seek a one-stop reference for evidence-informed assessment and intervention guidelines.

JULY 2022 640PP
978-1-119-79053-2 CL \$123.75 (Japan)
EDUCATIONAL & SCHOOL PSYCHOLOGY

The Addiction Treatment Planner

6th Edition

SERIES EDITOR ARTHUR E. JONGSMA JR., GRAND RAPIDS, EDITOR ROBERT R. PERKINSON & EDITOR TIMOTHY J. BRUCE, PEORIA

Clarify, simplify, and accelerate the treatment planning process so you can spend more time with clients



The Addiction Treatment Planner, Sixth Edition: provides all the elements necessary to quickly and easily develop formal treatment plans that satisfy the demands of HMOs, managed care companies, third-party payers, and state and federal agencies. This valuable resource contains treatment plan components for 48 behaviorally based presenting problems including depression, intimate relationship conflicts, chronic pain, anxiety, substance use, borderline personality, and more. You'll save hours by speeding up the completion of time-consuming paperwork, without sacrificing your freedom to develop customized treatment plans for clients.

This updated edition includes new and revised evidence-based objectives and interventions, new online resources, expanded references, an expanded list of client workbooks and self-help titles, and the latest information on assessment instruments. In addition, you'll find new chapters on some of today's most challenging issues- Opioid Use Disorder, Panic/Agoraphobia, Loneliness, and Vocational Stress. New suggested homework exercises will help you encourage your clients to bridge their therapeutic work to home.

This book's easy-to-use reference format helps locate treatment plan components by presenting behavioral problem or DSM-5 diagnosis. Inside, you'll also find a sample treatment plan that conforms to the requirements of most third-party payors and accrediting agencies including CARF, The Joint Commission (TJC), COA, and the NCQA. *The Addiction Treatment Planner, Sixth Edition*: will liberate you to focus on what's really important in your clinical work.

SERIES: PRACTICEPLANNERS

JULY 2022 672PP
978-1-119-70785-1 PB \$67.50 (Japan)
PSYCHOTHERAPY & COUNSELING

レファレンス

Writing Children's Books For Dummies

3rd Edition

LISA ROJANY & PETER ECONOMY, LAJOLLA, UNITED STATES

Create the next very hungry caterpillar, big red dog, or cat in the hat with a hand from this trusted guide

In *Writing Children's Books For Dummies*, you'll learn what to write between "Once upon a time . . ." and "The End" as you dive into chapters about getting started writing, how to build great characters, and how to design a dramatic plot. On top of the technical writing advice, you'll discover how talented illustrators work and how to find an agent. The newest edition of this popular *For Dummies* title even shows you how to choose a publisher--or self-publish--and how to use social media and other marketing and PR to get the word out about your new masterpiece.

In the book, you'll learn about:

- The fundamentals of writing for children, including common book formats and genres, and the structure of the children's book market
- Creating a spellbinding story with scene description, engaging dialogue, and a child-friendly tone
- Polishing your story to a radiant shine with careful editing and rewriting
- Making the choice between a traditional publisher, a hybrid publisher, or self-publishing
- Using the most-effective marketing and publicity techniques to get your book noticed

Perfect for anyone who's ever dreamed of creating the next Ferdinand the Bull or Grinch, *Writing Children's Books For Dummies* is an essential, easy-to-read guide for budding children's authors everywhere.

JULY 2022 432PP
978-1-119-87001-2 PB \$24.99 (Japan)
REFERENCE (GENERAL)



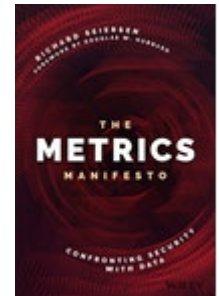
危機管理

The Metrics Manifesto

Confronting Security with Data

RICHARD SEIERSEN, ALAMO

Security professionals are trained skeptics. They poke and prod at other people's digital creations, expecting them to fail in unexpected ways. Shouldn't that same skeptical power be turned inward? Shouldn't practitioners ask: "How do I know that my enterprise security capabilities work? Are they scaling, accelerating, or slowing as the business exposes more value to more people and through more channels at higher velocities?" This is the start of the modern measurement mindset--the mindset that seeks to confront security with data.



The Metrics Manifesto: Confronting Security with Data delivers an examination of security metrics with R, the popular open-source programming language and software development environment for statistical computing. This insightful and up-to-date guide offers readers a practical focus on applied measurement that can prove or disprove the efficacy of information security measures taken by a firm.

The book's detailed chapters combine topics like security, predictive analytics, and R programming to present an authoritative and innovative approach to security metrics. The author and security professional examines historical and modern methods of measurement with a particular emphasis on Bayesian Data Analysis to shed light on measuring security operations.

Readers will learn how processing data with R can help measure security improvements and changes as well as help technology security teams identify and fix gaps in security. The book also includes downloadable code for people who are new to the R programming language. Perfect for security engineers, risk engineers, IT security managers, CISOs, and data scientists comfortable with a bit of code, *The Metrics Manifesto* offers readers an invaluable collection of information to help professionals prove the efficacy of security measures within their company.

JULY 2022 320PP
978-1-119-51536-4 CL \$39.95 (Japan)
General & Introductory Security Management

社会学

Post Society

CARLO BORDONI

READERSHIP: Students and academics in sociology and in the social sciences and humanities generally; interested general readers.

JULY 2022 182PP
978-1-5095-5390-7 CL \$64.95 (Japan)
978-1-5095-5391-4 PB \$22.95 (Japan)
Social Theory



統計学

Statistics: 1001 Practice Problems For Dummies (+ Free Online Practice)

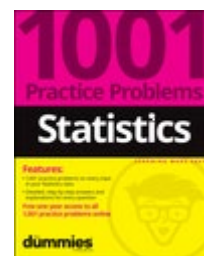
THE EXPERTS AT DUMMIES, HOBOKEN, UNITED STATES

Wiley

Become more likely to succeed--gain stats mastery with Dummies

Statistics: 1001 Practice Problems For Dummies gives you 1,001 opportunities to practice solving problems from all the major topics covered in Statistics classes--in the book and online! Get extra help with tricky subjects, solidify what you've already learned, and get in-depth walk-throughs for every problem with this useful book. These practice problems and detailed answer explanations will help you gain a valuable working knowledge of statistics, no matter what your skill level. Thanks to Dummies, you have a resource to help you put key stats concepts into practice.

- Work through practice problems on all Statistics topics covered in school classes
- Read through detailed explanations of the answers to build your understanding
- Access practice questions online to study anywhere, any time
- Improve your grade and up your study game with practice, practice, practice



The material presented in *Statistics: 1001 Practice Problems For Dummies* is an excellent resource for students, as well as parents and tutors looking to help supplement Statistics instruction.

Statistics: 1001 Practice Problems For Dummies (9781119883593) was previously published as *1,001 Statistics Practice Problems For Dummies* (9781118776049). While this version features a new *Dummies* cover and design, the content is the same as the prior release and should not be considered a new or updated product.

JULY 2022 496PP
978-1-119-88359-3 PB \$29.99 (Japan)
GENERAL & INTRODUCTORY STATISTICS

テストプレップ

Design of Experiments for Reliability Achievement

STEVEN E. RIGDON, RONG PAN, DOUGLAS C. MONTGOMERY,
UNITED STATES & CONNIE M. BORROR

Southern Illinois University; Georgia Institute of Technology;
Arizona State University

This book illustrates how experimental design and life testing can be used to understand product reliability in order to enable reliability improvements. The book is divided into four sections. The first section focuses on statistical distributions and methods for modeling reliability data. The second section provides an overview of design of experiments including response surface methodology and optimal designs. The third section describes regression models for reliability analysis focused on lifetime data. This section provides the methods for how data collected in a designed experiment can be properly analyzed. The final section of the book pulls together all of the prior sections with customized experiments that are uniquely suited for reliability testing. Throughout the text, there is a focus on reliability applications and methods. It addresses both optimal and robust design with censored data.



To aid in reader comprehension, examples and case studies are included throughout the text to illustrate the key factors in designing experiments and emphasize how experiments involving life testing are inherently different. The book provides numerous state-of-the-art exercises and solutions to help readers better understand the real-world applications of experimental design and reliability. The authors utilize R and JMP® software throughout as appropriate, and a supplemental website contains the related data sets.

The text features an accessible approach to reliability for readers with various levels of technical expertise. This book is a key reference for statistical researchers, reliability engineers, quality engineers, and professionals in applied statistics and engineering. It is a comprehensive textbook for upper-undergraduate and graduate-level courses in statistics and engineering.

SERIES: WILEY SERIES IN PROBABILITY AND STATISTICS

AUGUST 2022 432PP
978-1-119-23769-3 CL \$124.95 (Japan)
Experimental Design

The Official ACT Prep & Subject Guides 2022-2023 Complete Set

ACT

JULY 2022 UnknownPP
978-1-119-91234-7 PB \$89.95 (Japan)
SAT, ACT Prep

The Official ACT Prep Guide 2022-2023

ACT

The comprehensive guide to the 2022-2023 ACT® test, with 6 genuine, full-length practice tests in print and online.

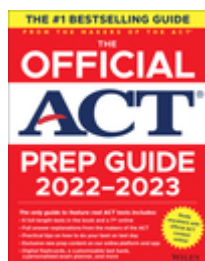
This 2022-2023 guide includes six actual ACT® tests -- all of which contain the optional writing test -- that you can use to practice at your own pace. To help you review test subjects and improve your understanding, this guide provides clear explanations for every answer. You'll also get practical tips for boosting your score on the English, math, reading, and science tests, as well as the optional writing test. Additionally, you can access the six tests online through the access code provided in the guide. The code also provides access to 400 online flashcards to help you prepare for all sections in the ACT® examination.

The test's creators filled this guide with expert advice on how to both mentally and physically prepare for the exam. It will also help you:

- Review the entire ACT® test content so you'll know what to expect on test day
- Understand the procedures you'll follow when you're taking the ACT®
- Prepare for the types of questions you can expect to find on the test
- Adopt test-taking strategies that are right for you

The Official ACT® Prep Guide 2022-2023 is the best resource to prepare you for test day. By using this guide you can feel comfortable that you're prepared to do your best!

JULY 2022 1120PP
978-1-119-86590-2 PB \$39.95 (Japan)
SAT, ACT PREP



Microsoft Certified Azure Data Fundamentals Study Guide

Exam DP-900

JAKE SWITZER

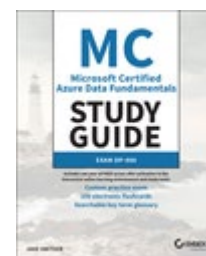
The most authoritative and complete study guide for people beginning to work with data in the Azure cloud

In *MC Azure Data Fundamentals Study Guide: Exam DP-900*, expert Cloud Solution Architect Jake Switzer delivers a hands-on blueprint to acing the DP-900 Azure data certification. The book prepares you for the test -- and for a new career in Azure data analytics, architecture, science, and more -- with a laser-focus on the job roles and responsibilities of Azure data professionals.

You'll receive a foundational knowledge of core data concepts, like relational and non-relational data and transactional and analytical data workloads, while diving deep into every competency covered on the DP-900 exam. You'll also get:

- Access to complimentary online study tools, including hundreds of practice exam questions, electronic flashcards, and a searchable glossary
- Additional prep assistance with access to Sybex's superior interactive online learning environment and test bank
- Walkthroughs of skills and knowledge that are absolutely necessary for current and aspiring Azure data pros in introductory roles

Perfect for anyone just beginning to work with data in the cloud, *MC Azure Data Fundamentals Study Guide: Exam DP-900* is a can't-miss resource for anyone prepping for the DP-900 exam or considering a new career working with Azure data.



JULY 2022 400PP
978-1-119-85583-5 PB \$50.00 (Japan)
Certification (MSCE, Novell, etc.)

獣医学

Essentials of Veterinary Ophthalmology

4th Edition

KIRK N. GELATT & CARYN E. PLUMMER

University of Florida; University of Florida

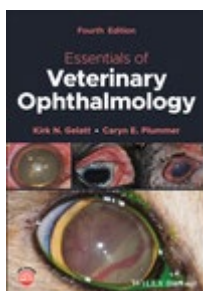
A user-friendly reference to basic, foundational information on veterinary ophthalmology

This book provides readers with a user-friendly manual to the basics of veterinary ophthalmology. It puts a focus on the most relevant information for clinical practice. Emphasizing canine ophthalmology, the book also covers the foundations of feline, equine, farm animal, and exotic animal ophthalmology. To aid in reader comprehension and information assimilation, a companion website presents review questions and the figures from the book in PowerPoint. Sample topics covered within the work include:

- Ophthalmic foundations: ophthalmic development and structure, physiology of the eye and vision, and ocular pharmacology and therapeutics
- Canine ophthalmology: canine orbit (disease and surgery), canine eyelids (disease and surgery), canine lacrimal apparatus (tear secretion and drainage), canine cornea (diseases and surgery) and canine glaucoma
- Other species: feline ophthalmology, equine ophthalmology, and food and fiber animal ophthalmology
- Ophthalmic and systemic diseases: comparative neuro-ophthalmology and systemic disease and the eye

Essentials of Veterinary Ophthalmology is a useful guide for veterinary students and practitioners looking to build out their core foundations of knowledge within their specific programs of study and disciplines.

JULY 2022 912PP
978-1-119-80132-0 PB \$179.99 (Japan)
VETERINARY OPHTHALMOLOGY

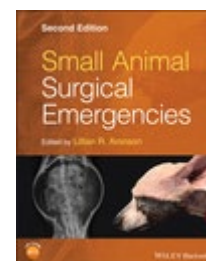
**Small Animal Surgical Emergencies**

2nd Edition

LILLIAN R. ARONSON

University of Pennsylvania, Philadelphia, Pennsylvania, USA

Small Animal Surgical Emergencies, Second Edition continues to be an important resource focusing on surgical emergencies, combining the work of surgical specialists and critical care specialists, and filling a void in educating and informing veterinarians.



The new edition of this book provides updated information on an array of topics such as preoperative stabilization, new and innovative treatment options, and aftercare. Each chapter covers step-by-step information on emergency stabilization, diagnostic approach, operative techniques, postoperative care, common complications encountered in each case, and how to troubleshoot any such complication should they occur. It also offers simplified surgical techniques to ensure success and describes new and novel procedures throughout.

The Second Edition of *Small Animal Surgical Emergencies* features:

- Nine new chapters covering operating room nursing tips, rectal prolapse, colonic torsion, surgical intervention post celiotomy, assisted enteral feeding tubes, open chest CPR, managing complications of skin flaps and grafts, incisional infection, and joint luxations
- Many chapters are written in collaboration by experts in small animal surgery and critical care, combining these practices in one important resource
- Relevant anatomy, imaging, and full-color illustrations and drawings incorporated into each chapter
- Inclusion of case presentations, when relevant

An important tool for small animal general practitioners, veterinary surgeons, critical care specialists, as well as veterinary nurses and operating room technicians, *Small Animal Surgical Emergencies, Second Edition* is a crucial resource for this constantly evolving branch of veterinary medicine.

JULY 2022 800PP
978-1-119-65853-5 CL \$189.99 (Japan)
VETERINARY SURGERY, ORTHOPEDICS & TRAUMA

Animal Behavior for Shelter Veterinarians and Staff

2nd Edition

EDITOR BRIAN A. DIGANGI, EDITOR VICTORIA CUSSEN, EDITOR
PAMELA REID & EDITOR KRISTEN COLLINS

A comprehensive resource to understand the behavioral considerations for intake, management, and rehoming of dogs and cats

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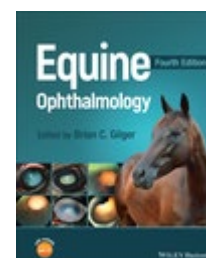
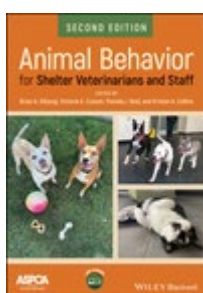
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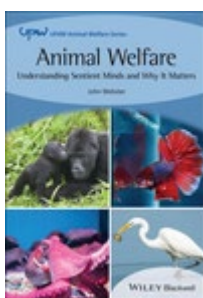
Animal Welfare

Understanding Sentient Minds and Why It Matters

JOHN G. WEBSTER

University of Wisconsin, Madison

An Accessible Overview of the Concept of Sentience Throughout the Animal Kingdom and Why It Matters to Humans



Animal Welfare explores the concept of sentience and the development of sentient minds throughout the animal kingdom. The work provides improved definitions and analysis of the ideas of sentience, cognition, and consciousness, along with evidence of advanced mental formulation in birds, fish, and invertebrates. Considerations between humans and animals are also discussed, such as outcome-based ethics in relation to humans' duties of care and the rights and wrongs of domestication. The work is divided into three parts and covers key topics such as:

- Specifics of animal sentience, from pain and suffering, to fear and dread, all the way to animals' social life and the comfort/joy/hope/despair they experience
- What we know about the sentience of different classes of animals in the waters, air, savannah/plains, and forests
- Considerations on human interactions based on animal sentience, including death (killing), animal farms, animals in laboratories, wild animals in captivity, and animals in sports and entertainment
- Analysis on what humans can learn from animals based on what we know about their varying levels of sentience

Animal Welfare serves as an invaluable analysis of animal sentience for students, teachers, and professionals directly involved in the study, teaching, and applications of animal behavior, motivation, and welfare. Thanks to the wide-ranging implications of animal sentience, the work will also appeal to everyone with a broader interest in animal behavior and human/animal interactions.

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