

JAPAN PREVIEW

September 2021



WILEY

PICK OF THE MONTH ~ 今月のお勧めタイトル**Lindhe's Clinical Periodontology and Implant Dentistry, 7th Edition**

リンデ 臨床歯周病学とインプラント

EDITOR NIKLAUS P. LANG, EDITOR TORD BERGLUNDH, EDITOR WILLIAM V. GIANNOBILE & EDITOR
MARIANO SANZ

University of Berne; University of Michigan

→P30

An Introduction to TESOL: Becoming a language teaching professional

TESOL入門：言語教育のプロフェッショナルを目指して

KATE REYNOLDS, KENAN DIKILITAŞ & STEVE CLOSE

→P51

Introduction to Linear Regression Analysis, 6th Edition

線形回帰分析入門

DOUGLAS C. MONTGOMERY, UNITED STATES

Georgia Institute of Technology

→P80

JAPAN PREVIEW

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会計学

Agile Auditing

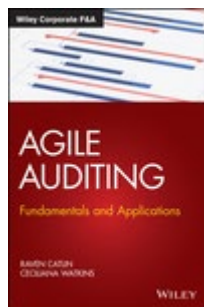
Fundamentals and Applications

RAVEN CATLIN & CECILIANA WATKINS

Institute of Internal Auditors; Boston University

Master new, disruptive technologies in the field of auditing

Agile Auditing: Fundamentals and Applications introduces readers to the applications and techniques unlocked by tested and proven agile project management principles. This book educates readers on an approach to auditing that emphasizes risk-based auditing, collaboration, and speedy delivery of meaningful assurance assessments while ensuring quality results and a focus on the areas that pose the greatest material risks to the business under audit.



The discipline of auditing has been forever changed via the introduction of new technologies, including:

- Machine learning
- Virtual Conferencing
- Process automation
- Data analytics

Hugely popular in software development, the agile approach is just making its way into the field of audit. This book provides concrete examples and practical solutions for auditors who seek to implement agile techniques and methods.

Agile Auditing is perfect for educators, practitioners, and students in the auditing field who are looking for ways to introduce greater levels of efficiency and effectiveness to their discipline.

SERIES: WILEY CORPORATE F&A

SEPTEMBER 2021 288PP
978-1-119-69332-1 CL \$55.00 (Japan)
Auditing

農業

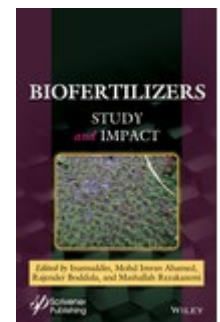
Biofertilizers

Study and Impact

INAMUDDIN, MOHD IMRAN AHAMED, RAJENDER BODDULA & MASHALLAH REZAKAZEMI

Great attention has been paid to reduce the use of conventional chemical fertilizers harming living beings through food chain supplements from the soil environment. Therefore, it is necessary to develop alternative sustainable fertilizers to enhance soil sustainability and agriculture productivity. Biofertilizers are the substance that contains microorganisms (bacteria, algae, and fungi) living or latent cells that can enrich the soil quality with nitrogen, phosphorous, potassium, organic matter, etc. They are a cost-effective, biodegradable, and renewable source of plant nutrients/supplements to improve the soil-health properties. Biofertilizers emerge as an attractive alternative to chemical fertilizers, and as a promising cost-effective technology for eco-friendly agriculture and a sustainable environment that holds microorganisms which enhance the soil nutrients' solubility leading a raise in its fertility, stimulates crop growth and healthy food safety.

This book provides in-depth knowledge about history and fundamentals to advances biofertilizers, including latest reviews, challenges, and future perspectives. It covers fabrication approaches, and various types of biofertilizers and their applications in agriculture, environment, forestry and industrial sectors. Also, organic farming, quality control, quality assurance, food safety and case-studies of biofertilizers are briefly discussed. Biofertilizers' physical properties, affecting factors, impact, and industry profiles in the market are well addressed. This book is an essential guide for farmers, agrochemists, environmental engineers, scientists, students, and faculty who would like to understand the science behind the sustainable fertilizers, soil chemistry and agroecology.



SEPTEMBER 2021 672PP
978-1-119-72467-4 CL \$225.00 (Japan)
Sustainable & Organic Agriculture

ビジネス

Soil Health Analysis, 2 Vols Set

EDITOR DIANE E. STOTT, EDITOR DOUGLAS L. KARLEN & EDITOR
MAYSOON MIKHA

Volume 1 briefly reviews selected "Approaches to Soil Health Analysis" including a brief history of the concept, challenges and opportunities, meta-data and assessment, applications to forestry and urban land reclamation, and future soil health monitoring and evaluation approaches.

Volume 2 focuses on "Laboratory Methods for Soil Health Analysis" including an overview and suggested analytical approaches intended to provide meaningful, comparable data so that soil health can be used to guide restoration and protection of our global soil resources.

SERIES: ASA, CSSA, AND SSSA BOOKS

SEPTEMBER 2021 500PP
978-0-89118-988-6 PB \$110.00 (Japan)
Soil

Approaches to Soil Health Analysis, Volume 1

SEPTEMBER 2021 224PP
978-0-89118-980-0 PB \$60.00 (Japan)

Laboratory Methods for Soil Health Analysis, Volume 2

SEPTEMBER 2021 352PP
978-0-89118-982-4 PB \$60.00 (Japan)

Stop Playing Safe

How to be braver in your work, leadership and life

2nd Edition

MARGIE WARRELL

Stop holding yourself back and realize your true potential by embracing risk and uncertainty

As the world around us seems to careen from one crisis to another, playing it safe becomes an increasingly attractive alternative. But what if taking the more sheltered route is actually keeping us from some of life's greatest rewards?



In the Second Edition of *Stop Playing Safe*, best-selling author, commentator, and coach Margie Warrell brings you insights and commentary from some of the world's most accomplished and courageous people. These individuals have found fulfillment, success, and even security by taking intelligent risks, and their experiences can show you how to overcome fear to realize your own goals.

In this book you'll:

- Find case studies and stories from around the world that demonstrate the power of taking calculated risks
- Learn how to deal with anxiety and uncertainty by embracing adaptability and flexibility
- Tap into your inner courage to find success and satisfaction in your life and work

With a brand-new foreword and thoroughly updated material that addresses the COVID-19 pandemic, *Stop Playing Safe* is perfect for leaders, entrepreneurs, business owners, and professionals who want to ditch the fear and anxiety that's been holding them back and fully embrace their potential.

SEPTEMBER 2021 UnknownPP
978-0-7303-9458-7 PB \$23.00 (Japan)
BUSINESS SELF-HELP

What's Your AI Strategy?

The Forbes Ignite Guide to Customer-Centric Artificial Intelligence

WILL THOMPSON & NICOLE CACAL

Develop an AI strategy that works for your clients and customers with this essential resource

What's Your AI Strategy? The Forbes Ignite Guide to Customer-Centric Artificial Intelligence cuts to the quick of crafting an AI strategy that adds value for your users and customers--and your bottom line.

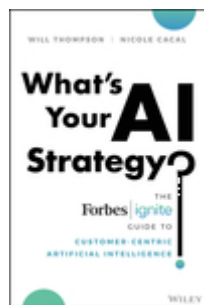
Written by renowned strategists and consultants Will Thompson, VP and Managing Director of *Forbes Insights* and publisher of *Forbes AI*, and Nicole Cacal, CEO of Forbes Ignite, this book provides straightforward frameworks that guide readers in the development and implementation of customer-centric artificial intelligence that yields end-to-end value.

What's Your AI Strategy? presents thinking and design tools that help decision-makers, data teams, and consultants:

- Plan and complete artificial intelligence projects that make sense for their business and customers
- Understand the math and technology you'll need to know to effectively implement AI in their business
- Create a business and data plan that considers people, process, technology, capital, and strategy

This book couples the proprietary AI Customer Experience Canvas that Thompson and Cacal have developed with original research from Forbes Insights and interviews with famous experts in the field of artificial intelligence. It is an invaluable resource for anyone in business or government who wishes to contribute to digital transformation within their organization in a way that benefits their constituents or clients.

SEPTEMBER 2021 304PP
978-1-119-70318-1 CL \$28.00 (Japan)
Business Technology



Consumption-Based Forecasting and Planning

Predicting Changing Demand Patterns in the New Digital Economy

CHARLES W. CHASE

Discover a new, demand-centric framework for forecasting and demand planning

In *Consumption-Based Forecasting and Planning*, thought leader and forecasting expert Charles W. Chase delivers a practical and novel approach to retail and consumer goods companies demand planning process.

The author demonstrates why a demand-centric approach relying on point-of-sale and syndicated scanner data is necessary for success in the new digital economy.

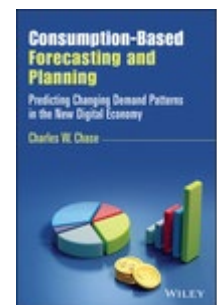
The book showcases short- and mid-term demand sensing and focuses on disruptions to the marketplace caused by the digital economy and COVID-19. You'll also learn:

- How to improve demand forecasting and planning accuracy, reduce inventory costs, and minimize waste and stock-outs
- What is driving shifting consumer demand patterns, including factors like price, promotions, in-store merchandising, and unplanned and unexpected events
- How to apply analytics and machine learning to your forecasting challenges using proven approaches and tactics described throughout the book via several case studies.

Perfect for executives, directors, and managers at retailers, consumer products companies, and other manufacturers, *Consumption-Based Forecasting and Planning* will also earn a place in the libraries of sales, marketing, supply chain, and finance professionals seeking to sharpen their understanding of how to predict future consumer demand.

SERIES: WILEY AND SAS BUSINESS SERIES

SEPTEMBER 2021 304PP
978-1-119-80986-9 CL \$49.95 (Japan)
Strategic Management



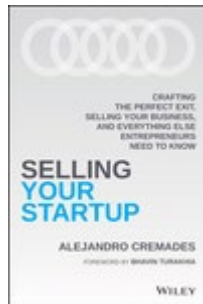
Selling Your Startup

Crafting the Perfect Exit, Selling Your Business, and Everything Else Entrepreneurs Need to Know

ALEJANDRO CREMADES, DARIEN

Learn how to sell your startup from an acquisition expert

Many entrepreneurs dream of the day their company is acquired and they secure a perfect exit. But information about the process of getting your business acquired usually comes from expensive investment bankers who typically advise late-stage startups.



In *Selling Your Startup*, serial entrepreneur Alejandro Cremades delivers an accessible guide on how to sell your startup. With first-hand experience as a fully exited entrepreneur, investment banker, and lawyer, Cremades describes the tips and tricks startup founders need to sell their early-stage to growth-stage business.

In this book, you'll discover:

- The role that investment bankers play in the acquisition process, how they add value, and how to break down their fees
- Preparing your company for sale, including compiling a pitch book, putting its finances in order, and building a target list of potential acquirers
- How to get to a Letter of Intent, perform due diligence, and reach a purchase agreement

Perfect for entrepreneurs of all kinds, *Selling Your Startup* is a must-have roadmap to the practical realities of company acquisition and contains proven guidance on crafting your perfect exit.

SEPTEMBER 2021 272PP
978-1-119-79798-2 CL \$27.00 (Japan)
Management / Leadership

Altering Frontiers

Organizational Innovations in Healthcare

EDITOR CORINNE GRENIER & EDITOR EWAN OIRY

How can healthcare systems be transformed by reimagining their multiple silos to favor processes and practices that are more responsive to local, horizontal initiatives? *Altering Frontiers* analyzes numerous experiences, using a multidisciplinary approach, paying attention to certain actors, collectives and organizational arrangements.

Through this work, levers are identified that promote lasting transformation: recognizing the legitimacy of the practices of many who are often "invisible"; trusting those who know their intervention territory; investing in methodological support; taking advantage of tools and procedures such as instruments for strategic and managerial discussion; and developing the capacity to absorb innovative ideas and experiences that circulate within the environment.

SEPTEMBER 2021 256PP
978-1-78630-707-1 CL \$165.00 (Japan)
Creativity & Innovation Management

Liberalism and Capitalism Today

PAUL-JACQUES LEHMANN

It now seems to be a given that the principles that presided over the birth of liberalism and capitalism are no longer relevant. To understand the evolution of this ideology and economic system, *Liberalism and Capitalism Today* examines the work of the two authors who have contributed the most to the analysis of the conditions that lead to the emergence of these types of organization: Alexis de Tocqueville of France and Max Weber of Germany.

This book thus analyzes how the evolution of the general environment of a civilization leads to the emergence of new ways of approaching economic life, and then to its development, thanks to innovations in many fields.

This historical perspective makes it possible to understand the transformations that liberalism and capitalism could offer. It suggests a potential path that does not involve simply returning to a way of life that has been totally altered by the evolution of civilizations and the economy, but instead leads to a more peaceful way of living in most countries of the world.

SEPTEMBER 2021 UnknownPP
978-1-78630-689-0 CL \$165.00 (Japan)
Creativity & Innovation Management

Revolutions in e-Health

Innovating and Acting for Sustaining
Transformations in the Health System

EDITOR JEROME BERANGER & EDITOR ROLAND RIZOULIERES

What sort of health system do we want to implement in the face of the imminent arrival of artificial intelligence and robotics in medical practices? The Covid-19 health crisis has demonstrated the importance of digital technologies in the care of patients and their families, as imperative attention was called to ethics and relational practice.

This book analyzes numerous sources of feedback to reveal the multiple facets of this so-called Medicine 4.0. It reveals the extent to which digital medicine requires new forms of organization and new approaches to co-conception, in a logic that is resolutely collaborative with patients. The book concludes with legal and ethical points of view in order to challenge the reader on their duty to truly be an "actor" of their health care.

SEPTEMBER 2021 UnknownPP
978-1-78630-695-1 CL \$165.00 (Japan)
Creativity & Innovation Management

The Road to Luxury

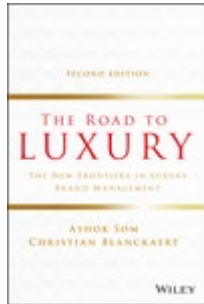
The New Frontiers in Luxury Brand Management

2nd Edition

ASHOK SOM & CHRISTIAN BLANCKAERT

Discover the meaning of the latest trends in the luxury industry with this resource from leading voices in the field

The thoroughly revised Second Edition of *The Road to Luxury: The New Frontiers in Luxury Brand Management* delivers a comprehensive overview of the foundations of, and new developments in, luxury brands. The book discusses a new wave of mergers and acquisitions, the rise of Gucci, the growth of Balenciaga, a variety of new collaborations between different companies, a growing support for sustainability, and the COVID-19 pandemic.



Readers will also benefit from the inclusion of:

- An insightful analysis of the impact and meaning of the COVID-19 for the luxury industry, particularly for market growth in China
- The creation of savoir faire and business plan competitions in the luxury industry
- LVMH's sponsoring of Viva Technology

Perfect for students in MBA programs or taking degrees or courses in Luxury Brand Management, *The Road to Luxury* will also earn a place in the libraries of executives and managers in the luxury business, marketing, branding, and advertising professionals and companies, and entrepreneurs interested in the workings of the luxury industry.

SEPTEMBER 2021 448PP
978-1-119-74131-2 CL \$49.95 (Japan)
SALES MANAGEMENT

Small Business

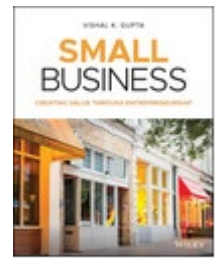
Creating Value Through Entrepreneurship

1st Edition

VISHAL K. GUPTA

Small Business: Creating Value Through Entrepreneurship offers a balanced approach to the core concepts of starting, managing, and working in a small business. An ideal textbook for undergraduate courses in small business management and entrepreneurship, the book offers a student-friendly pedagogical framework that blends

foundational research on small business with the real-world practice of business ownership. Relevant examples are provided throughout the text, bringing key concepts to life while providing a realistic view of what it takes to create a successful and sustainable small business. Organized into five streamlined sections--a small business overview, paths to small business ownership, financial and legal issues, ways to grow a small business, and discussion of the "Entrepreneur's Dilemma"--the text offers a diverse range of relatable examples drawn from both actual businesses and from depictions of entrepreneurship in popular media. Each clear and accessible chapter features discussion questions, mini-case studies, further reading lists, and color visual displays designed to enhance the learning experience and strengthen student engagement and comprehension.



SEPTEMBER 2021 UnknownPP
978-1-119-59177-1 PB \$75.95 (Japan)
Small Business & Entrepreneurship

生体医用工学

Digital Health Communications

EDITOR BENOIT CORDELIER & EDITOR OLIVIER GALIBERT

**TECHNOLOGICAL PROSPECTS AND SOCIAL APPLICATIONS SET
Coordinated by Bruno Salgues**

There are many controversies with respect to health crisis management: the search for information on symptoms, misinformation on emerging treatments, massive use of collaborative tools by healthcare professionals, deployment of applications for tracking infected patients. The Covid-19 crisis is a relevant example about the need for research in digital communications in order to understand current health info communication.

After an overview of the challenges of digital healthcare, this book offers a critical look at the organizational and professional limits of ICT uses for patients, their caregivers and healthcare professionals. It analyzes the links between ICT and ethics of care, where health communication is part of a global, humanistic and emancipating care for patients and caregivers. It presents new digitized means of communicating health knowledge that reveal, thanks to the Internet, a competition between biomedical expert knowledge and experiential secular knowledge.

SEPTEMBER 2021 246PP
978-1-78630-468-1 CL \$165.00 (Japan)
General & Introductory Biomedical Engineering

土木工学

**Asset Management of Physical
Infrastructure: Managerial Frameworks,
Policy, and Practice**

STEVEN MALE & KRISEN MOODLEY

Professor of Building Engineering, Construction Management,
Leeds University; Department of Civil Engineering

The intent of the text is not to focus on the tools and techniques of asset management since these are dealt with extensively within other guidance documents and textbooks, but to place those within a strategic and tactical context of organisational development in asset management. Importantly, by bringing together international best practice and research, together with critically related knowledge domains that underpin the landscape of the discipline, the intent is to address the development of asset management capabilities within organisations and the challenges of deploying asset management skills in organisations. This is a particularly important challenge in developed and emerging economies.

In broad terms the book will integrate:

- concepts of strategic management with those of asset management, portfolio, programme, and project management
- notions of the Intelligent Client'
- creation and enhancement of organisational capabilities in AM as an organisational change initiative

SEPTEMBER 2021 512PP
978-1-119-50169-5 CL \$120.00 (Japan)
Construction Management

Smith's Elements of Soil Mechanics

10th Edition

IAN SMITH

Head of the School of Engineering and the Built Environment
at Edinburgh Napier University

The revised 10th edition of the core textbook on soil mechanics

The revised and updated edition of *Smith's Elements of Soil Mechanics* continues to offer a core undergraduate textbook on soil mechanics. The author, a noted expert in geotechnical engineering, reviews all aspects of soil mechanics and provides a detailed explanation of how to use both the current and the next versions of Eurocode 7 for geotechnical design. Comprehensive in scope, the book includes accessible explanations, helpful illustrations, and worked examples and covers a wide range of topics including slope stability, retaining walls and shallow and deep foundations.

The text is updated throughout to include additional material and more worked examples that clearly illustrate the processes for performing testing and design to the new European standards. In addition, the book's accessible format provides the information needed to understand how to use the first and second generations of Eurocode 7 for geotechnical design. The second generation of this key design code has seen a major revision and the author explains the new methodology well, and has provided many worked examples to illustrate the design procedures. The new edition also contains a new chapter on constitutive modeling in geomechanics and updated information on the strength of soils, highway design and laboratory and field testing.

Written for students of civil engineering and geotechnical engineering, *Smith's Elements of Soil Mechanics, Tenth Edition* covers the fundamental changes in the ethos of geotechnical design advocated in the Eurocode 7.

SEPTEMBER 2021 640PP 978-1-119-75039-0 PB \$55.00 (Japan)
SOIL CONSTRUCTIONS & GEOTECHNICS

Models for Financing, Cost and Risk Assessment

Major Railway Tunnel Projects in Europe

ERNST & SOHN

Project managers of large railroad tunnels in Europe summarize their experiences. In addition to explaining the general conditions, they give an overview of financing, cost and risk management, scheduling, quality control and auditing.

The book address project manager of mayor infrastructure projects as well as decision makers, financiers, engineers. Additionally, it provides valuable information for organizations that are responsible for future projects in politics and management.



SEPTEMBER 2021 176PP
978-3-433-03314-2 PB \$105.00 (Japan)
Tunnel Construction

Applied Water Science, Volume 2

INAMUDDIN, MOHD IMRAN AHAMED, RAJENDER BODDULA
& TAUSEEF AHMAD RANGREEZ

The high rate of industrialization around the world has led to an increase in the rate of anthropogenic activities which involves the release of different types of contaminants into the aquatic environment generating high environmental risks, which could affect health and socio-economic activities if not treated properly. There is no doubt that the rapid progress in improving the water quality and management has been motivated by the latest developments in green chemistry. Over the past decade, sources of water pollutants and the conventional methods used for the treatment of industrial wastewater treatment has flourished.

Water quality and its adequate availability have been a matter of concern worldwide particularly in developing countries. According to a World Health Organization (WHO) report, more than 80% of diseases are owing to the consumption of contaminated water. Heavy metals are highly toxic that are a potential threat for water, soil, and air, their consumption in higher concentrations provided hazardous outcomes. The water quality is usually measured keeping in mind chemical, physical, biological, and radiological standards. The discharge of the effluent by industries contains heavy metals, hazardous chemicals, and a high amount of organic and inorganic impurities those can contaminate the water environment, and hence, human health. Therefore, it is our primary responsibility to maintain the water quality in our respective countries.

This book provides understanding, occurrence, identification, toxic effects and control of water pollutants in aquatic environment using green chemistry protocols. It focuses on water remediation properties and processes including industry-scale water remediation technologies. This book covers recent literature on remediation technologies in preventing water contamination and its treatment. Chapters in this book discuss remediation of emerging pollutants using nanomaterials, polymers, advanced oxidation processes, membranes, and microalgae bioremediation, etc. It also includes photochemical, electrochemical, piezoacoustic, and ultrasound techniques. It is a unique reference guide for graduate students, faculties, researchers and industrialists working in the area of water science, environmental science, analytical chemistry, and chemical engineering.

SEPTEMBER 2021 644PP
978-1-119-72473-5 CL \$225.00 (Japan)
Hydraulic / Water Engineering

Environmental Engineering

Fundamentals, Sustainability, Design

3rd Edition

JAMES R. MIHELICIC & JULIE B. ZIMMERMAN

Michigan Tech; Yale University

Environmental Engineering, 3rd Edition, is a balanced and up-to-date presentation of the core concepts of sustainable design -- providing a mass-and-energy approach to the biology and chemistry of the environment while emphasizing the development of innovative and resilient solutions to environmental challenges.

Clear and engaging chapters, written by leaders in their respective areas of expertise, cover environmental risk and measurements, physical processes, water resources, air-quality engineering, solid-waste management, and many more critical topics.

Now in its third edition, this comprehensive textbook offers up-to-date perspectives on recent regulatory and policy issues relevant to sustainable development, explores innovative engineering solutions to global problems, and discusses emerging topics such as green chemistry, biomimicry, and life cycle thinking. Throughout this new edition, classroom-proven pedagogical tools develop students' design skills and strengthen their understanding of fundamental principles. Now offered in enhanced ePub format, *Environmental Engineering* is an invaluable resource for students seeking to design solutions that meet current and future sustainability challenges.



SEPTEMBER 2021 736PP
978-1-119-60445-7 PB \$166.95 (Japan)
ENVIRONMENTAL ENGINEERING

Geoengineering

The Gamble

GERNOT WAGNER

READERSHIP: Undergraduate and postgraduate students of environmental science and engineering, politics, economics and law, as well as current affairs readers.

SEPTEMBER 2021 188PP
978-1-5095-4305-2 CL \$59.95 (Japan)
978-1-5095-4306-9 PB \$19.95 (Japan)
Environmental Engineering



Membrane Contactor Technology

Water Treatment, Food Processing, Gas Separation, and Carbon Capture

EDITOR MASHALLAH REZAKAZEMI & EDITOR MOHAMMAD YOUNAS

Delivers an UpToDate insights in membrane contactor technology explaining transport phenomena, design aspects and diverse process application for professionals.

SEPTEMBER 2021 450PP
978-3-527-34861-9 CL \$155.00 (Japan)
Process Engineering

Plasmonic Sensors and their Applications

EDITOR ADIL DENIZLI

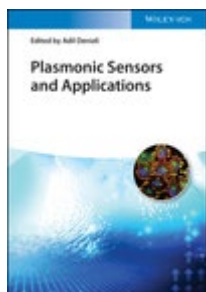
A practically-focused reference and guide on the use of plasmonic sensing as a faster and cheaper alternative to conventional sensing platforms

Plasmons, the collective oscillations of electrons occurring at the interface between any two materials, are sensitive to changes in dielectric properties near metal surfaces. Plasmonic sensors enable the real-time study of unique surface properties by monitoring the effect of the material interaction at the sensor surface. Plasmonic sensing techniques offer fast, label-free analysis, and hold advantages over labelling techniques such as ELISA (enzyme-linked immunosorbent assay).

Plasmonic Sensors and Applications examines the development and use of highly sensitive and selective plasmonic sensing platforms in chemistry, biotechnology, and medicine. Contributions by an international panel of experts provide timely and in-depth coverage of both real-world applications and academic research in the dynamic field. The authors describe advances in nanotechnology, polymer chemistry, and biomedicine, explore new and emerging applications of plasmonic sensing, discuss future trends and potential research directions, and more.

Plasmonic Sensors and Applications is an invaluable resource for analytical chemists, biochemists, biotechnologists, protein and surface chemists, and advanced students of biotechnology.

SEPTEMBER 2021 304PP
978-3-527-34847-3 CL \$160.00 (Japan)
Analytical Chemistry



Semiconductor Solar Photocatalysts

Fundamentals and Applications

EDITOR JIAGUO YU, EDITOR XIN LI & EDITOR JINGXIANG LOW

Provides a timely overview of basic principles and significant advances of semiconductor-based photocatalysts for solar energy conversion

Semiconductor Solar Photocatalysts: Fundamentals and Applications presents a systematic, in-depth summary of both fundamental and cutting-edge research in novel photocatalytic systems. Focusing on photocatalysts with vast potential for efficient utilization of solar energy, this up-to-date volume covers heterojunction systems, graphene-based photocatalysts, organic semiconductor photocatalysts, metal sulfide semiconductor photocatalysts, and graphitic carbon nitride-based photocatalysts.

Organized into six chapters, the text opens with a detailed introduction to the history, design principles, modification strategies, and performance evaluation methods of solar energy photocatalysis. The remaining chapters provide detailed discussion of various novel photocatalytic systems such as direct Z-scheme and S-scheme photocatalysts, organic polymers, and covalent organic frameworks. This authoritative resource:

- Explains the essential concepts of solar energy photocatalysis and heterojunction systems for photocatalysis
- Reviews interesting structures and new applications of semiconductor photocatalysts
- Features contributions from an international panel of leading researchers in the field
- Includes extensive references and numerous tables, figures, and color illustrations

Semiconductor Solar Photocatalysts: Fundamentals and Applications is a valuable resource for all catalytic chemists, materials scientists, inorganic and physical chemists, chemical engineers, and physicists working in the semiconductor industry.

SEPTEMBER 2021 500PP
978-3-527-34959-3 CL \$185.00 (Japan)
Catalysis

Drug Delivery Approaches

Perspectives from Pharmacokinetics and Pharmacodynamics

EDITOR BRET BERNER, EDITOR TOUFIGH GORDI, EDITOR HEATHER A. E. BENSON & EDITOR MICHAEL S. ROBERTS

Explore this comprehensive discussion of the application of mathematical models to drug delivery edited by leading experts in the field

Drug Delivery Approaches: Perspectives from Pharmacokinetics and Pharmacodynamics delivers a

thorough discussion of drug delivery options to achieve target profiles and approaches as defined by physical and pharmacokinetic models. The book offers an overview of drug absorption and physiological models, chapters on oral delivery routes with a focus on both PBPK and multiple dosage form options. It also provides an explanation of the pharmacokinetics of the formulation of drugs delivered by systemic transdermal routes.

The distinguished editors have included practical and accessible resources that address the biological and delivery approaches to pulmonary and mucosal delivery of drugs. Emergency care settings are also described, with explorations of the relationship between parenteral infusion profiles and PK/PD. The future of drug delivery is addressed via discussions of virtual experiments to elucidate mechanisms and approaches to drug delivery and personalized medicine.

Perfect for researchers, industrial scientists, graduate students, and postdoctoral students in the area of pharmaceutical science and engineering, *Drug Delivery Approaches: Perspectives from Pharmacokinetics and Pharmacodynamics* will also earn a place in the libraries of formulators, pharmacokineticists, and clinical pharmacologists.

SEPTEMBER 2021 528PP
978-1-119-77273-6 CL \$225.00 (Japan)
Drug Formulation & Delivery



Superatom Chemistry

PURU JENA & QIANH SUN

Explore the theory and applications of superatomic clusters and cluster assembled materials

Superatoms: Principles, Synthesis and Applications delivers an insightful and exciting exploration of an emerging subfield in cluster science, superatomic clusters and cluster assembled materials. The book presents discussions of the fundamentals of superatom chemistry and their application in catalysis, energy, materials science, and biomedical sciences.

Readers will discover the foundational significance of superatoms in science and technology and learn how they can serve as the building blocks of tailored materials, promising to usher in a new era in materials science. The book covers topics as varied as the thermal and thermoelectric properties of cluster-based materials and clusters for CO₂ activation and conversion, before concluding with an incisive discussion of trends and directions likely to dominate the subject of superatoms in the coming years.

Perfect for academic researchers and industrial scientists working in cluster science, energy materials, thermoelectrics, 2D materials, and CO₂ conversion, *Superatoms: Principles, Synthesis and Applications* will also earn a place in the libraries of interested professionals in chemistry, physics, materials science, and nanoscience.

SEPTEMBER 2021 416PP
978-1-119-61952-9 CL \$190.00 (Japan)
Inorganic Chemistry



Electrochemical Energy Conversion and Storage

An Introduction

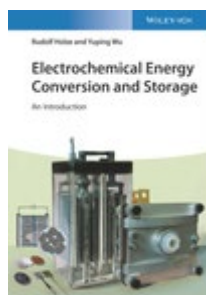
RUDOLF HOLZE & YUPING WU

Technical University, Chemnitz

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

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

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



SEPTEMBER 2021 398PP
978-3-527-33431-5 PB \$95.00 (Japan)
Batteries & Fuel Cells

Mastering Linux System Administration

CHRISTINE BRESNAHAN, INDIANAPOLIS & RICHARD BLUM,
INDIANAPOLIS, UNITED STATES

Achieve Linux system administration mastery with time-tested and proven techniques

In *Mastering Linux System Administration*, Linux experts and system administrators Christine Bresnahan and Richard Blum deliver a comprehensive roadmap to go from Linux beginner to expert Linux system administrator with a learning-by-doing approach. Organized by do-it-yourself tasks, the book includes instructor materials like a sample syllabus, additional review questions, and slide decks.



Amongst the practical applications of the Linux operating system included within, you'll find detailed and easy-to-follow instruction on:

- Installing Linux servers, understanding the boot and initialization processes, managing hardware, and working with networks
- Accessing the Linux command line, working with the virtual directory structure, and creating shell scripts to automate administrative tasks
- Managing Linux user accounts, system security, web and database servers, and virtualization environments

Perfect for entry-level Linux system administrators, as well as system administrators familiar with Windows, Mac, NetWare, or other UNIX systems, *Mastering Linux System Administration* is a must-read guide to manage and secure Linux servers.

SEPTEMBER 2021 408PP
978-1-119-79445-5 PB \$50.00 (Japan)
Operating Systems / Linux & UNIX

コミュニケーション

Media Freedom

DAMIAN TAMBINI

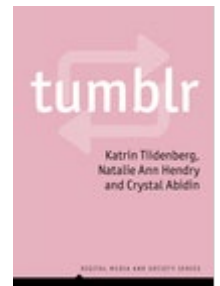
READERSHIP: Students and scholars in media and communications, policy makers and media professionals.

SEPTEMBER 2021 224PP
978-1-5095-4468-4 CL \$69.95 (Japan)
978-1-5095-4469-1 PB \$24.95 (Japan)
Media Studies

**Tumblr**

KATRIN TIIDENBERG, CRYSTAL ABIDIN & NATALIE ANN HENDRY

READERSHIP: Students taking courses related to Digital Methodologies, Platform Studies, Digital Media, Online Communities, Networked Cultures, Platform Politics, Celebrity and Commerce, Fandom and Online Communities. A key resource for scholars researching in this area.



SERIES: DIGITAL MEDIA AND SOCIETY

SEPTEMBER 2021 240PP
978-1-5095-4108-9 CL \$64.95 (Japan)
978-1-5095-4109-6 PB \$22.95 (Japan)
Media Studies

Social Media Communication

Trends and Theories

BU ZHONG

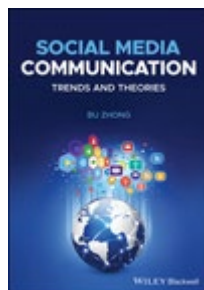
Examines the social media mechanism and how it is transforming communication in an increasingly networked society

Social Media Communication: Trends and Theories explores how social media is transforming the way people think and behave. Providing students with an in-depth understanding of the mechanism underlying social media, this comprehensive textbook uses a multidisciplinary approach to examine social media use in a wide range of communication and business contexts. Each chapter is based on original research findings from the author as well as recent work in communication studies, neuroscience, information science, and psychology.

Divided into two parts, the text first describes the theoretical foundation of social media use, discussing the impact of social media on information processing, social networking, cognition, interpersonal and group communication, the media industry, and business marketing. The second half of the book focuses on research-based strategies for effectively using social media in communication and business such as the news industry, health care, and social movements.

Social Media Communication: Trends and Theories is the perfect textbook for undergraduate and graduate courses in communication, business, journalism, business, and information science and technology. It is also an invaluable resource for researchers, educators, journalists, entrepreneurs, and professionals working in media management, advertising, public relations, and business marketing.

SEPTEMBER 2021 208PP
978-1-119-04161-0 PB \$39.95 (Japan)
New Media



Cultural Commonalities in the Digital Ecosystem

MAUD PELISSIER

INTELLECTUAL TECHNOLOGIES SET Coordinated by Jean-Max Noyer and Maryse Carmes

The dynamics of production, circulation and dissemination of knowledge that are currently developing in the digital ecosystem testify to a profound change in capitalism. On the margins of the traditional duo of knowledge markets and exclusive property rights, the emerging notion of cultural commons is opening the door to new modes of production based on hybrid market arrangements and an inclusive understanding of property.

This book studies the political economy of cultural commons in the digital ecosystem, outlining the contexts and areas of thought in which this concept has emerged and identifying the socio-economic, technical and political issues associated with it. It also analyzes the specific physical conditions that enable the implementation of the economy of cultural commons in a specific digital ecosystem, that of books, by studying the effects of digital libraries and self-publishing platforms.

SEPTEMBER 2021 234PP 978-1-78630-637-1 CL \$165.00 (Japan)
Information Technologies

(ISC)² CISSP Certified Information Systems Security Professional Official Study Guide & Practice Tests Bundle, 3e

MIKE CHAPPLE, JAMES MICHAEL STEWART, DARRIL GIBSON & DAVID SEIDL

University of Notre Dame; Lan Wrights, Inc., Austin, Texas

This value-packed set for the serious CISSP certification candidate combines the bestselling (ISC)² *CISSP Certified Information Systems Security Professional Official Study Guide, 9th Edition* with an updated and refined collection of Practice Exams to give you the best preparation ever for the high-stakes CISSP Exam.



(ISC)² CISSP Study Guide, 9th Edition has been completely updated for the latest 2021 CISSP Body of Knowledge. This bestselling Sybex study guide covers 100% of all exam objectives. You'll prepare for the exam smarter and faster with Sybex thanks to expert content, real-world examples, advice on passing each section of the exam, access to the Sybex online interactive learning environment, and much more. Reinforce what you've learned with key topic exam essentials and chapter review questions.

Along with the book, you also get access to Sybex's superior online interactive learning environment that includes four practice exams each with 125 unique questions to help you identify where you need to study more, more than 1000 Electronic Flashcards to reinforce your learning and give you last-minute test prep before the exam, a searchable glossary in PDF to give you instant access to the key terms you need to know for the exam.

Add to that the updated *(ISC)² CISSP Certified Information Systems Security Professional Official Practice Tests, 3rd edition* with 4 more complete 125-question exams and another 100 questions for each of the 8 domains and you'll be as ready as you can be for the CISSP exam.

SEPTEMBER 2021 UnknownPP
978-1-119-79002-0 PB \$95.00 (Japan)
NETWORKING / SECURITY

Cloud Native Security

CHRIS BINNIE & RORY MCCUNE

Explore the latest and most comprehensive guide to securing your Cloud Native technology stack



Cloud Native Security delivers a detailed study into minimizing the attack surfaces found on today's Cloud Native infrastructure. Throughout the work hands-on examples walk through mitigating threats and the areas of concern that need to be addressed. The book contains the information that professionals need in order to build a diverse mix of the niche knowledge required to harden Cloud Native estates.

The book begins with more accessible content about understanding Linux containers and container runtime protection before moving on to more advanced subject matter like advanced attacks on Kubernetes. You'll also learn about:

- Installing and configuring multiple types of DevSecOps tooling in CI/CD pipelines
- Building a forensic logging system that can provide exceptional levels of detail, suited to busy containerized estates
- Securing the most popular container orchestrator, Kubernetes
- Hardening cloud platforms and automating security enforcement in the cloud using sophisticated policies

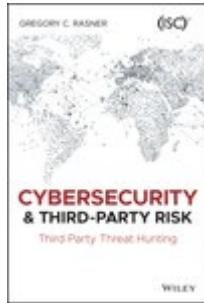
Perfect for DevOps engineers, platform engineers, security professionals and students, *Cloud Native Security* will earn a place in the libraries of all professionals who wish to improve their understanding of modern security challenges.

SEPTEMBER 2021 224PP
978-1-119-78223-0 PB \$40.00 (Japan)
Networking / Security

Cybersecurity and Third-Party Risk

GREGORY C. RASNER

After large breaches at well-known organizations including Home Depot, Capital One, Equifax, Best Buy and many others, CISOs, Cybersecurity professionals and business leaders have spent countless hours and money upgrading their cybersecurity internally. Data Loss Prevention, Cloud Access Security Broker, Intrusion Detection/Prevention, Zero Trust, Privileged Access Manager, and countless other projects and systems have been purchased and integrated to head off breaches.



And yet the size and frequency of breaches continue to grow.

The real kicker: many of these major breaches occurred at a third-party. These companies, like too many others still, did not pay attention to the cybersecurity of their vendors. These caused large financial penalties, but the reputational losses were often enormous. Both for the companies and the personnel who ran the cybersecurity at these firms. And sixty percent of companies admit not performing adequate cybersecurity vetting of vendors. Thirty-three percent report they have none or ad-hoc cybersecurity vetting process for third parties.

Because they have your customer data or connect to your network, third-parties have become physical attestations of your own business. Cybersecurity due diligence and due care must be more aggressive in their approach to this risk domain; it is no longer enough to perform it as a compliance function but must be active and engaged in real-time with third-party cybersecurity.

With this book you will learn how to create a third party risk program with cybersecurity at the lead, greatly lowering the risk of a breach from a third party. By leveraging this program to grow its maturity your organization will go from being reactionary to predictive.

SEPTEMBER 2021 480PP
978-1-119-80955-5 PB \$40.00 (Japan)
Networking / Security

Systems Analysis and Design

An Object-Oriented Approach with UML

6th Edition, International Adaptation

ALAN DENNIS, BARBARA WIXOM & DAVID TEGARDEN

The University of Georgia; University of Virginia, McIntyre School of Business; Virginia Tech

SEPTEMBER 2021 UnknownPP
978-1-119-74613-3 PB \$65.00 (Japan)
Object Technologies

Foundations of Data Intensive Applications

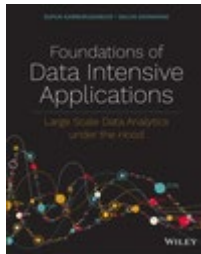
Large Scale Data Analytics under the Hood

SUPUN KAMBURUGAMUVA & SALIYA EKANAYAKE

There is an ever increasing need to store this data, process them and incorporate the knowledge into everyday business operations of the companies. Before big data systems, there were high performance systems designed to do large calculations. Around the time big data became popular, high performance computing systems were mature enough to support the scientific community. But they weren't ready for the enterprise needs of data analytics. Because of the lack of system support for big data systems at that time, there was a large number of systems created to store and process data. These systems were created according to different design principles and some of them thrived through the years while some didn't succeed. Because of the diverse nature of systems and tools available for data analytics, there is a need to understand these systems and their applications from a theoretical perspective. These systems are masking the user from underlying details, and they use them without knowing how they work. This works for simple applications but when developing more complex applications that need to scale, users find themselves without the required foundational knowledge to reason about the issues. This knowledge is currently hidden in the systems and research papers. The underlying principles behind data processing systems originate from the parallel and distributed computing paradigms. Among the many systems and APIs for data processing, they use the same fundamental ideas under the hood with slightly different variations. We can breakdown data analytics systems according to these principles and study them to understand the inner workings of applications.

This book defines these foundational components of large scale, distributed data processing systems and go into details independently of specific frameworks. It draws examples of current systems to explain how these principles are used in practice. Major design decisions around these foundational components define the performance, type of applications supported and usability. One of the goals of the book is to explain these differences so that readers can take informed decisions when developing applications. Further it will help readers to acquire in-depth knowledge and recognize problems in their applications.

SEPTEMBER 2021 512PP
978-1-119-71302-9 PB \$55.00 (Japan)
Data Mining & Knowledge Discovery



Reports, Dashboards and Apps Using Microsoft Power Platform

SIVAKUMAR HARINATH, BOTHELL, TESSA HURR, AMANDA RIVERA & WILL THOMPSON

Teaches Excel, Tableau, and Qlikview users how to get the most insight and analysis from Microsoft's Power Platform suite for data analysis and visualization



Microsoft Power Platform enables users to visualize data and share insights throughout an entire organization. Able to connect to any source on-premises or in the cloud, this powerful business analytics solution is rated as a leader in Gartner's Business Intelligence Magic Quadrant--ranking ahead of Tableau and Qlik. *Reports, Dashboards and Apps Using Microsoft Power Platform* helps readers understand the Power Platform suite, adopt and adapt the products based on their business needs, and transform how their organizations gain insights about business process optimization.

Written by members of the Microsoft team that built Power Platform, this authoritative book instructs readers on the effective, hands-on use of these technologies. Excel users seeking to upgrade for better analysis and visualization and Tableau or Qlikview users looking to integrate with Power Platform more easily will find the information invaluable. This book enables readers to:

- Prepare data models and author reports
- Create dashboards
- Manage dashboards and at enterprise scale
- Use Power Apps to create actionable insights
- Automate processes using Microsoft Flow

Reports, Dashboards and Apps Using Microsoft Power Platform is an essential guide for Business Intelligence professionals, analysts, data scientists, developers, and Excel, Tableau, and Qlikview power users.

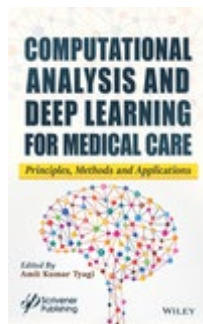
SEPTEMBER 2021 UnknownPP
978-1-119-60918-6 PB \$50.00 (Japan)
Data Mining & Knowledge Discovery

Computational Analysis and Deep Learning for Medical Care

Principles, Methods, and Applications

AMIT KUMAR TYAGI

This book discusses how deep learning can help healthcare images or text data in making useful decisions. For that, the need of reliable deep learning models like Neural networks, Convolutional neural network, Backpropagation, Recurrent neural network is increasing in medical image processing, i.e., in Colorization of Black and white images of X-Ray, automatic machine translation, object classification in photographs / images (CT-SCAN), character or useful generation (ECG), image caption generation, etc. Hence, Reliable Deep Learning methods for perception or producing better results are highly effective for e-healthcare applications, which is the challenge of today. For that, this book provides some reliable deep learning or deep neural networks models for healthcare applications via receiving chapters from around the world. In summary, this book will cover introduction, requirement, importance, issues and challenges, etc., faced in available current deep learning models (also include innovative deep learning algorithms/models for curing disease in Medicare) and provide opportunities for several research communities with including several research gaps in deep learning models (for healthcare applications).



SEPTEMBER 2021 UnknownPP
978-1-119-78572-9 CL \$225.00 (Japan)
Artificial Intelligence

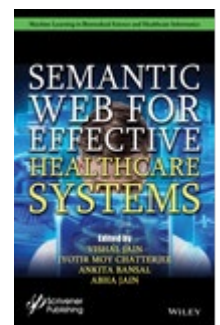
Semantic Web for Effective Health Care Systems

Impact and Challenges

VISHAL JAIN, JYOTIR MOY CHATTERJEE & ANKITA BANSAL

Recently, the Semantic Web has gained huge popularity to address these challenges. Semantic web technologies have the opportunity to transform the way healthcare providers utilize technology to gain insights and knowledge from their data and make decisions. Both big data and semantic web technologies can complement each other to address the challenges and add intelligence to healthcare management systems.

The aim of this book is to analyze the current status on how Semantic Web is used to solve the health data integration and interoperability problem, how it provides advanced data linking capabilities that can improve search and retrieval of medical data. There are chapters in the book which analyze the tools and approaches to semantic health data analysis and knowledge discovery. The book discusses the role of semantic technologies in extracting and transforming healthcare data before storing it in repositories. It also discusses different approaches for integrating heterogeneous healthcare data. To summarize, the book will help readers understand key concepts in semantic web applications for biomedical engineering and healthcare.



SEPTEMBER 2021 UnknownPP
978-1-119-76229-4 CL \$225.00 (Japan)
Artificial Intelligence

文化研究

The Official (ISC)² Guide to the CCSP CBK

3rd Edition

LESLIE FIFE, AARON KRAUS & BRYAN LEWIS

The only official body of knowledge for CCSP--the most popular cloud security credential--fully revised and updated.

Certified Cloud Security Professional (CCSP) certification validates the advanced technical skills needed to design, manage, and secure data, applications, and infrastructure in the cloud. This highly sought-after global credential has been updated with revised objectives. The new third edition of *The Official (ISC)² Guide to the CCSP CBK* is the authoritative, vendor-neutral common body of knowledge for cloud security professionals.



This comprehensive resource provides cloud security professionals with an indispensable working reference to each of the six CCSP domains: Cloud Concepts, Architecture, and Design; Cloud Data Security; Cloud Platform and Infrastructure Security; Cloud Application Security; Cloud Security Operations; and Legal, Risk, and Compliance. Detailed, in-depth chapters contain the accurate information required to prepare for and achieve CCSP certification. Every essential area of cloud security is covered, including implementation, architecture, operations, controls, and immediate and long-term responses.

Developed by (ISC)², the world leader in professional cybersecurity certification and training, this indispensable guide:

- Covers the six CCSP domains and over 150 detailed objectives
- Provides guidance on real-world best practices and techniques
- Includes illustrated examples, tables, diagrams and sample questions

The Official (ISC)² Guide to the CCSP CBK is a vital ongoing resource for IT and information security leaders responsible for applying best practices to cloud security architecture, design, operations and service orchestration.

SEPTEMBER 2021 608PP
978-1-119-60343-6 CL \$80.00 (Japan)
COMPUTER SECURITY & CRYPTOGRAPHY

Cedric Robinson

Black Radicalism Beyond the Order of Time

JOSHUA MYERS

READERSHIP: General readers, students and scholars interested in African American politics, political thought, philosophy and critical race studies.

SERIES: BLACK LIVES

SEPTEMBER 2021 300PP
978-1-5095-3791-4 CL \$69.95 (Japan)
978-1-5095-3792-1 PB \$26.95 (Japan)
African / African-American Studies



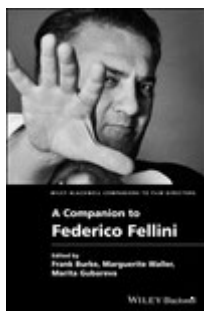
A Companion to Federico Fellini

EDITOR FRANK BURKE, EDITOR MARGUERITE WALLER & EDITOR MARITA GUBAREVA

Queens University

A groundbreaking academic treatment of Fellini, provides new, expansive, and diverse perspectives on his films and influence

The *Wiley Blackwell Companion to Federico Fellini* presents new methodologies and fresh insights for encountering, appreciating, and contextualizing the director's films in the 21st century. A milestone in Fellini scholarship, this volume provides contributions by leading scholars, intellectuals, and filmmakers, as well as insights from collaborators and associates of the Italian director. Scholarly yet readable essays explore the fundamental aspects of Fellini's works while addressing their contemporary relevance in contexts ranging from politics and the environment to gender, race, and sexual orientation.



As the centennial of Federico Fellini's birth in approaches in 2020, this timely work provides new readings of Fellini's films and illustrates Fellini's importance as a filmmaker, artist, and major cultural figure. The text explores topics such as Fellini's early cinematic experience, recurring themes and patterns in his films, his collaborations and influences, and his unique forms of cinematic expression. In a series of "Short Takes" sections, contributors look at specific films that have particular significance or personal relevance.

The *Wiley Blackwell Companion to Federico Fellini* is an indispensable resource for students, instructors, and scholars of Fellini, Italian cinema, cinema and art history, and all areas of film and media studies.

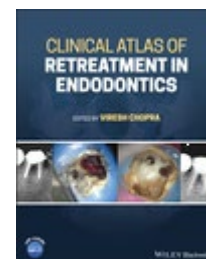
SERIES: WILEY BLACKWELL COMPANIONS TO FILM DIRECTORS

SEPTEMBER 2021 575PP
978-1-119-43156-5 PB \$59.95 (Japan)
9781119431534 CL \$95.00 (Japan), Published March 2020
Film Studies

Clinical Atlas of Retreatment in Endodontics

VIRESH CHOPRA

Explore a comprehensive pictorial guide to the retreatment of root canals and failed endodontic cases with step-by-step advice on retreatment management



Clinical Atlas of Retreatment in Endodontics delivers an image-based reference to the management of failed root canal cases. It provides evidence-based strategies and detailed clinical explanations to manage and retreat previous endodontically failed cases. It contains concrete evidence-based and practical techniques accompanied by full-colour, self-explanatory clinical photographs taking the reader through a journey of successful management of the failed clinical cases.

Using a variety of clinical cases, the book demonstrates why and how endodontic failures occur, how to prevent them, and how to manage them in clinical practice. It also emphasises on evaluating the restorability and prognosis of the tooth in order to make a proper case selection for providing retreatment. This book also discusses the various factors that can help the clinician to make a case for nonsurgical or surgical retreatment.

Perfect for endodontists, endodontic residents, and general dentists, *Clinical Atlas of Retreatment in Endodontics* is also useful for undergraduate dental students and private practitioners who wish to improve their understanding of endodontic retreatment and are looking for a one-stop reference on the subject.

SEPTEMBER 2021 352PP
978-1-119-50920-2 CL \$170.00 (Japan)
Endodontics

Lindhe's Clinical Periodontology and Implant Dentistry

7th Edition

EDITOR NIKLAUS P. LANG, EDITOR TORD BERGLUNDH, EDITOR WILLIAM V. GIANNOBILE & EDITOR MARIANO SANZ

University of Berne; University of Michigan

Discover the latest edition of the cornerstone reference on periodontology and implant dentistry that combines scholarship and science with practical clinical instruction

The Seventh Edition of *Lindhe's Clinical Periodontology and Implant Dentistry* brings together a distinguished team of periodontal specialists and academics who deliver another must-have resource for students, researchers, and practitioners specializing in periodontal care and implant dentistry.

Seamlessly integrating the foundational science behind periodontology with practical clinical protocols in two comprehensive volumes, the chapters cover anatomy, microbiology, occlusion trauma, pathology, tissue regeneration, treatment planning protocols, infection control, reconstructive therapy, occlusal and prosthetic therapy, and more.

Perfect for postgraduate dental students, researchers, and practitioners specializing in periodontal care and implant dentistry, *Lindhe's Clinical Periodontology and Implant Dentistry* continues to be the cornerstone reference work on periodontology.

SEPTEMBER 2021 1550PP
978-1-119-43888-5 CL \$250.00 (Japan)
PERIODONTOLOGY

Interpretation Basics of Cone Beam Computed Tomography

2nd Edition

EDITOR SHAWNEEN M. GONZALEZ

University of Nebraska Medical Center, Lincoln, NE, USA

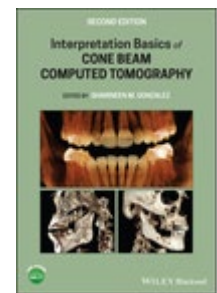
Interpretation Basics of Cone Beam Computed Tomography, Second Edition is a practical identification guide for interpreting CBCT findings in dental

practice. Offering multiple high-quality images for each example provided, this easy-to-use guide is designed for those new to CBCT scans as well as more experienced practitioners in need of a reference tool of normal anatomy, common anatomical variants, and incidental findings.

Extensively revised throughout, the Second Edition features a brand-new chapter on findings of the maxilla and mandible, and additional incidental findings and common anatomical variants. Every chapter in the book now includes sections covering anatomic variations, developmental anomalies, pathosis, and other considerations. All information has been carefully reviewed and updated to incorporate recent research in the field and reflect newer guidelines from various specialty organizations.

Interpretation Basics of Cone Beam Computed Tomography, Second Edition remains a must-have resource for all dental practitioner and specialists who use CBCT, dental students in radiology interpretation courses, and residents beginning to use CBCT in their specialty.

SEPTEMBER 2021 UnknownPP
978-1-119-68584-5 CL \$139.99 (Japan)
ORAL SCIENCES & TECHNOLOGY

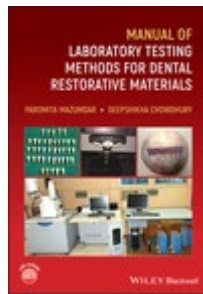


Manual of Laboratory Testing Methods for Dental Restorative Materials

PAROMITA MAZUMDAR & DEEPSHIKHA CHOWDHURY

Explore the properties of a wide range of dental materials used in restorative dentistry with a brand-new resource

The *Manual of Laboratory Testing Methods for Dental Restorative Materials* delivers a comprehensive and accessible review of the materials used in restorative dentistry. The book offers readers an evidence-based application of the materials and their mechanical, physical, and optical properties.



Each chapter begins with key points and includes a glossary to aid in the learning and retention of the material contained within. The book also covers the methods used to study the properties and the advantages and disadvantages of various dental restorative materials as well as why they are selected.

The *Manual of Laboratory Testing Methods for Dental Restorative Materials* will be a helpful addition to any institute library or personal collection and will cater to the needs of postgraduate dental students, researchers and academics in the fields of dentistry and material sciences.

SEPTEMBER 2021 230PP
978-1-119-68799-3 PB \$155.00 (Japan)
Dental Technology & Materials Science

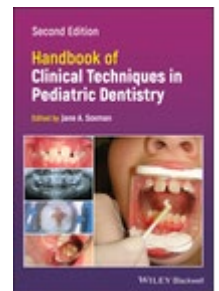
Handbook of Clinical Techniques in Pediatric Dentistry

2nd Edition

JANE A. SOXMAN

Pediatric Private Practice, Allison Park, PA, USA

The Second Edition of the *Handbook of Clinical Techniques in Pediatric Dentistry* features updated and expanded information on pediatric clinical dentistry, including eight new chapters written by educators with special interest in each topic. Since publication of the first edition, non-invasive treatment is at the forefront of pediatric dental care, and the new edition reflects this, with multiple options and techniques for non-invasive treatment. The book is filled with photographs for improved understanding and guidance through the procedures described.



The book is an easy-to-read guide to clinical pediatric dentistry with practical evidence-based information for dental students, assistants, hygienists, residents in both general dentistry and specialty training, and general and pediatric dentists. *Handbook of Clinical Techniques in Pediatric Dentistry* is a valuable resource for assuring excellence in care for our youngest patients.

Key Features

- Presents step-by-step clinical instruction for pediatric procedures
- Features eight new chapters, including non-invasive clinical techniques, trauma to primary incisors, caries-risk assessment, oral pathology, interceptive orthodontics, esthetics, sleep disordered breathing, infant examination, and treating the special needs patient
- Offers more than 600 clinical and radiographic photographs
- Provides practical information and guidance for clinical practice in pediatrics

SEPTEMBER 2021 UnknownPP
978-1-119-66104-7 PB \$99.99 (Japan)
PEDIATRIC DENTISTRY

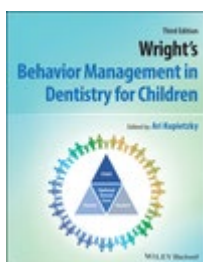
Wright's Behavior Management in Dentistry for Children

3rd Edition

EDITOR ARI KUPIETZKY

Private Practice and Hebrew University-Hadassah, Jerusalem, Israel

Guiding patient behavior is as important as ever for the practicing dentist, and the behavior of pediatric patients is perhaps the most challenging to manage, especially in today's modern society characterized by its diversity and unlimited access to information. The Third Edition of *Wright's Behavior Management in Dentistry for Children* delivers an up-to-date discussion of modern techniques for managing the behavior of pediatric dental patients.



The book addresses the influence of family and parenting styles on children's behavior and the factors that determine how children behave in the dental office. Pharmacological and non-pharmacological management techniques are described in depth, as are techniques for dealing with special needs patients. Clinical case scenarios are described throughout the book, with practical application of the taught principles. The final part of the book covers the dental environment - training office personnel to manage children's behavior, practical considerations for behavior guidance, and the effects of the physical dental office environment.

The new edition adds brand-new information on parent management, discussing the unique characteristics of modern parents and millennials and cultural competence utilizing techniques such as motivational interviewing and empathetic listening, amongst other methods. New sections include the use of hypnosis and magic to guide children through their dental treatment.

Wright's Behavior Management in Dentistry for Children is an essential reference for pediatric dentists, general dentists, dental students, and dental hygienists who frequently encounter child patients in their dental offices.

SEPTEMBER 2021 UnknownPP
978-1-119-68084-0 CL \$134.99 (Japan)
PEDIATRIC DENTISTRY

China and Africa

The New Era

DANIEL LARGE

READERSHIP: Students and scholars doing courses on Chinese foreign policy, Chinese economic policy, and global politics, African politics, development, and IR, as well as the growing number of courses dedicated to China-Africa relations.

SERIES: CHINA TODAY

SEPTEMBER 2021 250PP
978-1-5095-3632-0 CL \$64.95 (Japan)
978-1-5095-3633-7 PB \$22.95 (Japan)
Political Economics



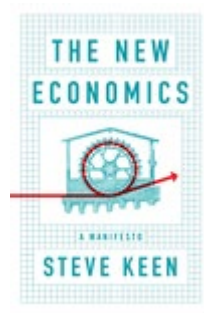
The New Economics

A Manifesto

STEVE KEEN

READERSHIP: General readers interested in alternative approaches to economics, students involved in Rethinking Economics' and similar groups.

SEPTEMBER 2021 140PP
978-1-5095-4528-5 CL \$59.95 (Japan)
978-1-5095-4529-2 PB \$16.95 (Japan)
Political Economics



Solidarity Economics

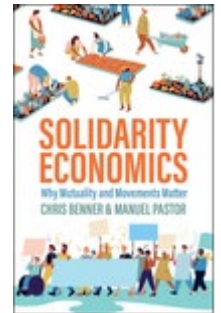
Why Mutuality and Movements Matter

MANUEL PASTOR & CHRIS BENNER

Pennsylvania State University

READERSHIP: General readers interested in political economy, sustainable development, and progressive economics.

SEPTEMBER 2021 208PP
978-1-5095-4407-3 CL \$64.95 (Japan)
978-1-5095-4408-0 PB \$22.95 (Japan)
Political Economics



教育

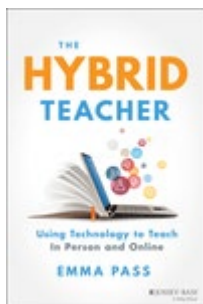
The Hybrid Teacher

Using Technology to Teach In Person and Online

EMMA PASS

A practical, educational technology resource for educators teaching remotely or in the classroom

The most effective hybrid teachers are those that have a vast knowledge of instructional strategies, technologies, tools, and resources, and can masterfully build meaningful relationships with students in-person and through a screen. *The Hybrid Teacher: Using Technology to Teach In-Person and Online* will teach educators to leverage the technology they have access to both in their traditional brick-and-mortar classrooms and in remote learning environments, including established online and hybrid schools; emergency response models for pandemics, natural disasters; rural education; and connecting with students who can't make it to school.



Many of us had to adapt to online teaching during the COVID-19 pandemic, but we still need resources for optimizing our instruction and becoming the best teachers we can be. This book is a practical guide for teachers who want to prepare for current and future remote instruction or leverage the best practices of remote instruction and EdTech tools to bring back to their brick-and-mortar classrooms. Inside, you'll learn about the impact of social and economic differences on classroom technology, and you'll find strategies and advice for maximizing success in each situation.

Given the current push to remote teaching during the pandemic and the uncertainty over what the return to school and the traditional brick-and-mortar classroom will look like, *The Hybrid Teacher* will be an invaluable resource on the shelves of teachers and administrators alike.

SEPTEMBER 2021 336PP
978-1-119-78985-7 PB \$24.95 (Japan)
General & Introductory Education

Discipline in the Secondary Classroom

A Positive Approach to Behavior Management

4th Edition

RANDALL S. SPRICK, EUGENE, UNITED STATES

Improve student behavior and motivation with this comprehensive resource

Discipline in the Secondary Classroom: A Positive Approach to Behavior Management, 4th Edition is an insightful treatment of the always-challenging topic of discipline in the high school classroom. The newly revised edition of the book incorporates a renewed focus on classroom management plans, handling the use and misuse of electronic devices in the classroom, and adapting instruction for a virtual classroom setting. *Discipline in the Secondary Classroom* discusses other issues crucial to the successful management of secondary classrooms and include:

- * How behavior is learned
 - * Managing student work
 - * Managing the use of technology and electronic devices in the classroom
 - * Active engagement strategies for teacher-directed instruction (both the physical classroom and the virtual classroom)
 - * Corrective strategies for misbehavior and inattention
 - * Maintaining a Cycle of Continuous Improvement to be a better teacher each year
- Perfect for grade 9 to 12 classroom teachers and educational administrators—including principals, assistant principals, staff development professionals, and consultants-- *Discipline in the Secondary Classroom* constitutes an indispensable resource for anyone aiming to achieve a civil, safe, and fair classroom environment.



SEPTEMBER 2021 528PP
978-1-119-65181-9 PB \$45.00 (Japan)
K-12 GENERAL

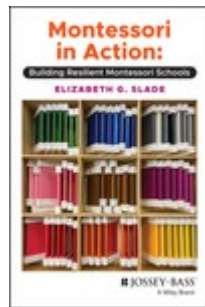
Montessori in Action

Building Resilient Montessori Schools

ELIZABETH SLADE

Join the Revolution! Build a resilient Montessori school

Montessori in Action: Building Resilient Montessori Schools delivers a practical and actionable method to provide a strong Montessori experience for all children, families and educators. The first of its kind, this book offers readers a collection of modern and concrete ways to build an equitable and resilient Montessori program, by discussing topics like:



- Working within the unique, complex ecosystem of Montessori to build a unified community empowered to serve the mission of the school
- Sharing ways to create a culture of honest conversation based on the values of growth and clarity
- Offering ways to build strong and resilient systems that will engage the whole community and yield results

Perfect for Montessori educators and administrators of all kinds, *Montessori in Action* will support educators in taking action! This book provides structures, tools and timetables to strengthen and improve schools. It will also earn a place in the libraries of the parents of Montessori children who desire to create and maintain an equitable environment that benefits all students, regardless of their background.

SEPTEMBER 2021 256PP
978-1-119-76312-3 PB \$29.95 (Japan)
K-12 General

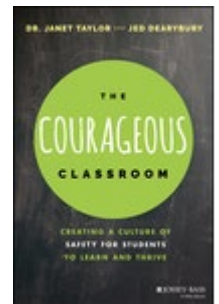
The Courageous Classroom

Creating a Culture of Safety for Students to Learn and Thrive

JANET TAYLOR & JED DEARYBURY

Help students and educators cope with fear in the classroom with this up-to-date new resource

In *The Courageous Classroom: Creating a Culture of Safety for Students to Learn and Thrive*, community psychiatrist Dr. Janet Taylor and nationally acclaimed educator, Jed Dearybury deliver a concise and insightful take on the culture of fear in schools around the country. You'll learn about the various ways fear is present in students and educators, practical tools and strategies for educators to cope with fear and anxiety in the classroom, the reality of racism, homophobia and microaggressions and their impact on learning, and how to create a landscape of calm in your classroom.



This important book will show you:

- The difference between fear and anxiety and how to respond to both
- How to create social-emotional learning environments where students feel mentally and physically safe
- Why, despite schools being safer than ever, students and educators fear for their personal safety
- How to manage educator stress, fear, and anxiety in a time of increasing coverage of school shootings

Perfect for K-12 public school educators, *Courageous Classrooms* will also earn a place in the libraries of educators in training and parents with school-age children who wish to better help children cope with fear.

SEPTEMBER 2021 336PP
978-1-119-70072-2 PB \$24.95 (Japan)
Teacher Education (K-12)

The Third as Object and Subject

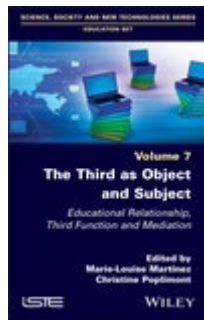
Educational Relationship, Third Function and Mediation

EDITOR MARIE-LOUIS MARTINEZ & EDITOR CHRISTINE POPLIMONT

The role of the third party is often played by a material or psychic object or by a living being, then called the "subject". The third party enables relationships, especially in education. According to Michel Vial, the third object is a medium that sends the subject back to himself and allows them to work on their change, to regulate themselves, to evaluate themselves.

If the object can exercise the role of the third party in interpersonal or intrapersonal relations, it is always the subject and the subject's relationship with another human being, or with the group, that benefits or suffers from it. Paradoxically, it may well be that the condition of possibility enabling the process of personification is the third party, the "non-person", as Benveniste claimed.

This book is intended for relationship professionals, educators, parents, teachers, facilitators and trainers, as well as caregivers and therapists, in order to help them understand the issue of the third party



SEPTEMBER 2021 208PP
978-1-78630-672-2 CL \$165.00 (Japan)
Education Special Topics

Spectrum Sharing in Cognitive Radio Networks

Towards Highly Connected Environments

PRABHAT THAKUR & GHANSHYAM SINGH

SPECTRUM SHARING IN COGNITIVE RADIO NETWORKS

Discover the latest advances in spectrum sharing in wireless networks from two internationally recognized experts in the field

Spectrum Sharing in Cognitive Radio Networks: Towards Highly Connected Environments delivers an in-depth and insightful examination of hybrid spectrum access techniques with advanced frame structures designed for efficient spectrum utilization. The accomplished authors present the energy and spectrum efficient frameworks used in high-demand distributed architectures by relying on the self-scheduled medium access control (SMC-MAC) protocol in cognitive radio networks.

The book begins with an exploration of the fundamentals of recent advances in spectrum sharing techniques before moving onto advanced frame structures with spectrum accessing approaches and the role of spectrum prediction and spectrum monitoring to eliminate interference. The authors also cover spectrum mobility, interference, and spectrum management for connected environments in substantial detail.

Spectrum Sharing in Cognitive Radio Networks: Towards Highly Connected Environments offers readers a recent and rational theoretical mathematical model of spectrum sharing strategies that can be used for practical simulation of future generation wireless communication technologies. It also highlights ongoing trends, revealing fresh research outcomes that will be of interest to active researchers in the area.

Perfect for senior undergraduate and graduate students in Electrical and Electronics Communication Engineering programs, *Spectrum Sharing in Cognitive Radio Networks: Towards Highly Connected Environments* will also earn a place in the libraries of professional engineers and researchers working in the field, whether in private industry, government, or academia.

SEPTEMBER 2021 368PP
978-1-119-66542-7 CL \$125.00 (Japan)
Mobile & Wireless Communications



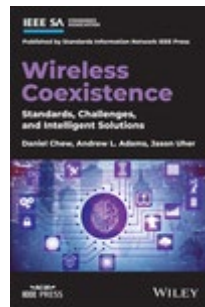
Wireless Coexistence

Standards, Challenges, and Intelligent Solutions

DANIEL CHEW, ANDREW L. ADAMS & JOHN UHER

Explore a comprehensive review of the motivation for wireless coexistence and the standards and technology used to achieve it

Wireless Coexistence: Standards, Challenges, and Intelligent Solutions delivers a thorough exploration of the sharing of wireless infrastructure, including the multiple standards and key requirements driving the current state of wireless technology. The book surveys several standards, including IEEE 802.22, 802.15.2, and 802.19.1 and expands upon recent advances in machine learning and artificial intelligence to demonstrate how these technologies might be used to meet or exceed the challenges of wireless coexistence.



The text discusses cognitive radio in the context of spectrum coexistence and provides a comparison and assessment of using artificial intelligence in place of, or in addition to, current techniques. It also considers applications to communication theory learning algorithms for passive wireless coexistence strategies, spectrum situational awareness, and active wireless coexistence strategies.

With the necessity of spectrum sharing and the scarcity of unused spectrum on the rise, the standardization of wireless coexistence becomes more important with each passing day. Perfect for scientists, researchers, engineers, developers, educators, and administrators working in the area of wireless networks, *Wireless Coexistence: Standards, Challenges, and Intelligent Solutions* will also earn a place in the libraries of graduate students studying wireless networks and seeking a one-stop reference for subjects related to wireless coexistence standards.

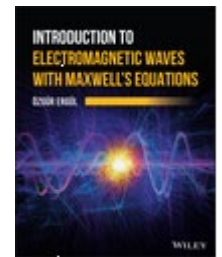
SEPTEMBER 2021 336PP
978-1-119-58418-6 CL \$135.00 (Japan)
Mobile & Wireless Communications

Introduction to Electromagnetic Waves with Maxwell's Equations

OZGUR ERGUL

Middle East Technical University

Written in an accessible style, and based on the author's extensive experience of teaching electromagnetics, this text "simply" presents the well-known topics that all electromagnetics instructors would include in their syllabus. The text is carefully tuned to be relevant to an audience of engineering students who have been exposed to the basic curriculum in linear algebra and multivariate calculus. Maxwell's equations form the backbone of the book; as they are developed step by step in consecutive chapters, related electromagnetic phenomena, as well as accompanying mathematical tools, are discussed simultaneously. Whilst the book will appeal to both undergraduate and post/graduate students, no prerequisite electromagnetics knowledge is required, as it starts with the most fundamental concepts. However, it is expected that the reader is familiar with basic calculus.



SEPTEMBER 2021 550PP
978-1-119-62672-5 CL \$150.00 (Japan)
Electromagnetic Theory

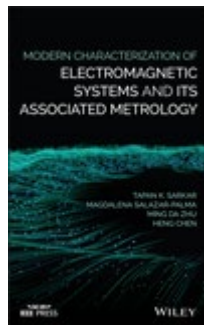
Modern Characterization of Electromagnetic Systems

TAPAN K. SARKAR, MAGDALENA SALAZAR-PALMA, MING DA ZHU & HENG CHEN

Universidad Politecnica de Madrid, Spain

New method for the characterization of electromagnetic wave dynamics

Modern Characterization of Electromagnetic Systems introduces a new method of characterizing electromagnetic wave dynamics and measurements based on modern computational and digital signal processing techniques. The techniques are described in terms of both principle and practice, so readers understand what they can achieve by utilizing them.



Additionally, modern signal processing algorithms are introduced in order to enhance the resolution and extract information from electromagnetic systems, including where it is not currently possible. For example, the author addresses the generation of non-minimum phase or transient response when given amplitude-only data.

- Presents modern computational concepts in electromagnetic system characterization
- Describes a solution to the generation of non-minimum phase from amplitude-only data
- Covers model-based parameter estimation and planar near-field to far-field transformation as well as spherical near-field to far-field transformation

Modern Characterization of Electromagnetic Systems is ideal for graduate students, researchers, and professionals working in the area of antenna measurement and design. It introduces and explains a new process related to their work efforts and studies.

SERIES: WILEY - IEEE

SEPTEMBER 2021 720PP
978-1-119-07646-9 CL \$155.00 (Japan)
Electromagnetic Theory

Deep learning for the Earth Sciences

A comprehensive approach to remote sensing, climate science and geosciences

GUSTAU CAMPS-VALLS, DEVIS TUIA, XIAO XIANG ZHU & MARKUS REICHSTEIN

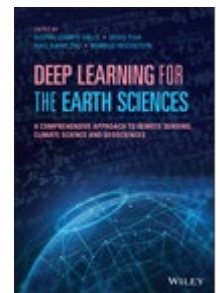
University of Valencia, Spain

Explore this insightful treatment of deep learning in the field of earth sciences, from four leading voices in the field

Deep learning is a fundamental technique in modern artificial intelligence and is being applied to disciplines across the scientific spectrum. Earth science is no exception. Yet, the link between deep learning and Earth sciences has only recently entered academic curricula and thus has not yet proliferate broad spread. *Deep Learning for the Earth Sciences* delivers a perspective and unique treatment of the concepts, skills, and practices necessary to quickly become familiar with the application of deep learning techniques to the Earth sciences. The book prepares readers to be ready to use the technologies and principles described within in their own research.

The distinguished editors have also included resources that explain and provide new ideas and recommendations for new research especially useful to those involved in advanced research education or those seeking PhD thesis orientations.

Perfect for PhD students and researchers in the fields of geosciences, image processing, remote sensing, electrical engineering and computer science, and machine learning, *Deep Learning for the Earth Sciences* will also earn a place in the libraries of machine learning and pattern recognition researchers, engineers, and scientists.



SEPTEMBER 2021 550PP
978-1-119-64614-3 CL \$135.00 (Japan)
Remote Sensing

Pedestrian Inertial Navigation with Self-Contained Aiding

ANDREI M. SHKEL & YUSHENG WANG

Explore an insightful summary of the major self-contained aiding technologies for pedestrian navigation from established and emerging leaders in the field

Pedestrian Inertial Navigation with Self-Contained Aiding delivers a comprehensive and broad treatment of self-contained aiding techniques in pedestrian inertial navigation. The book combines an introduction to the general concept of navigation and major navigation and aiding techniques with more specific discussions of topics central to the field, as well as an exploration of the future of the field: Ultimate Navigation Chip (uNavChip) technology.

The most commonly used implementation of pedestrian inertial navigation, strapdown inertial navigation, is discussed at length, as are the mechanization, implementation, error analysis, and adaptivity of zero-velocity update aided inertial navigation algorithms. The book demonstrates the implementation of ultrasonic sensors, ultra-wide band (UWB) sensors, and magnetic sensors. Ranging techniques are considered as well, including both foot-to-foot ranging and inter-agent ranging, and learning algorithms, navigation with signals of opportunity, and cooperative localization are discussed. Readers will also benefit from the inclusion of:

- A thorough introduction to the general concept of navigation as well as major navigation and aiding techniques
- An exploration of inertial navigation implementation, Inertial Measurement Units, and strapdown inertial navigation
- A discussion of error analysis in strapdown inertial navigation, as well as the motivation of aiding techniques for pedestrian inertial navigation
- A treatment of the zero-velocity update (ZUPT) aided inertial navigation algorithm, including its mechanization, implementation, error analysis, and adaptivity

Perfect for students and researchers in the field who seek a broad understanding of the subject, *Pedestrian Inertial Navigation with Self-Contained Aiding* will also earn a place in the libraries of industrial researchers and industrial marketing analysts who need a self-contained summary of the foundational elements of the field.

SERIES: IEEE PRESS SERIES ON SENSORS

SEPTEMBER 2021 208PP
978-1-119-69955-2 PB \$59.95 (Japan)
Sensors, Instrumentation & Measurement

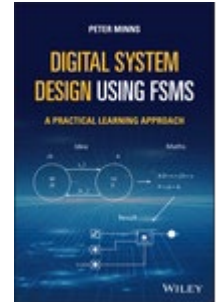
Digital System Design using FSM's

A Practical Learning Approach

PETER D. MINNS

This is a complete update of the author's earlier book, *FSM-Based Digital Design using Verilog HDL* (Wiley 2008). Whilst the essential foundation content remains, the book has been considerably refreshed to cover the design of Finite State Machines (FSM) in place of Microprocessors, using a novel form of State Machines based on Toggle Flip Flops (TFF) and Data Flip Flops (DFF).

It follows a Linear Programmed Learning approach, enabling the reader to learn at their own pace, and to design their own FSM based systems.



SEPTEMBER 2021 310PP
978-1-119-78270-4 CL \$145.00 (Japan)
Embedded Systems & Smart Cards

エネルギー

Energy

Crises, Challenges and Solutions

PARDEEP SINGH

Global energy demand has more than doubled since 1970. The use of energy is strongly related to almost every conceivable aspect of development: wealth, health, nutrition, water, infrastructure, education and even life expectancy itself are strongly and significantly related to the consumption of energy per capita. Many development indicators are strongly related to per-capita energy consumption. Fossil fuel is the most conventional source of energy but also increases greenhouse gas emissions. The economic development of many countries has come at the cost of the environment. However, it should not be presumed that a reconciliation of the two is not possible.

The nexus concept is the interconnection between the resource energy, water, food, land, and climate. Such interconnections enable us to address trade-offs and seek synergies among them. Energy, water, food, land, and climate are essential resources of our natural environment and support our quality of life. Competition between these resources is increasing globally and is exacerbated by climate change. Improving resilience and securing resource availability would require improving resource efficiency. Many policies and programs are announced nationally and internationally for replacing the conventional mode and also emphasizing on conservation of fossil fuels and reuse of exhausted energy, so a gap in implications and outcomes can be broadly traced by comparing the data.

This book aims to highlight problems and solutions related to conventional energy utilization, formation, and multitudes of ecological impacts and tools for the conservation of fossil fuels. The book also discusses modern energy services as one of the sustainable development goals and how the pressure on resource energy disturbs the natural flows. The recent advances in alternative energy sources and their possible future growth are discussed and on how conventional energy leads to greenhouse gas formation, which reduces energy use efficiency. The different policies and models operating is also addressed, and the gaps that remained between them. Climate change poses a challenge for renewable energy, and thus it is essential to identify the factors that would reduce the possibility of relying on sustainable energy sources.

SEPTEMBER 2021 320PP
978-1-119-74144-2 CL \$175.00 (Japan)
Energy & Environmental Impact

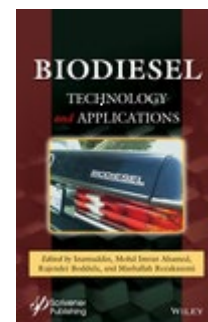
Biodiesel Technology and Applications

INAMUDDIN, MOHD IMRAN AHAMED, RAJENDER BODDULA & MASHALLAH REZAKAZEMI

King Abdulaziz University, Jeddah, Saudi Arabia; Aligarh Muslim University, Aligarh, India; Aligarh Muslim University, Aligarh, India; National Center for Nanoscience and Technology (NCNST, Beijing)

Energy technologies have attracted great attention due to the fast development of sustainable energy. Biodiesel technologies have been identified as the sustainable route through which overdependence on fossil fuels can be reduced. Biodiesel has played a key role in handling the growing challenge of a global climate change policy. Biodiesel is defined as the monoalkyl esters of vegetable oils or animal fats. Biodiesel is a cost-effective, renewable, and sustainable fuel that can be made from vegetable oils and animal fats. Compared to petroleum-based diesel, biodiesel would offer a non-toxicity, biodegradability, improved air quality and positive impact on the environment, energy security, safe-to-handle, store and transport and so on. Biodiesels have been used as a replacement of petroleum diesel in transport vehicles, heavy-duty trucks, locomotives, heat oils, hydrogen production, electricity generators, agriculture, mining, construction, and forestry equipment.

This book describes a comprehensive overview, covering a broad range of topics on biodiesel technologies and allied applications. Chapters cover history, properties, resources, fabrication methods, parameters, formulations, reactors, catalysis, transformations, analysis, in situ spectroscopies, key issues and applications of biodiesel technology. It also includes biodiesel methods, extraction strategies, biowaste utilization, oleochemical resources, non-edible feedstocks, heterogeneous catalysts, patents, and case-studies. Progress, challenges, future directions, and state-of-the-art biodiesel commercial technologies are discussed in detail. This book is an invaluable resource guide for professionals, faculty, students, chemical engineers, biotechnologists, and environmentalists in these research and development areas.



SEPTEMBER 2021 508PP
978-1-119-72464-3 CL \$225.00 (Japan)
Renewable Energy

Wave and Current Power Generation

VICTOR M. LYATKHER

As the world turns further and further away from fossil fuel energy sources, unconventional and renewable sources of energy, such as power generation from water sources and wind energy, is becoming more and more important. Hydropower has been around for decades, but this book suggests new methods that are more cost-effective and less intrusive to the environment for creating power sources from rivers, the tides, and other sources of water. Written by two experts in the field, it also covers wind energy and how it can be more efficiently harnessed. This groundbreaking new volume deals with modern problems of using wind energy, namely, jet currents in the atmosphere and the energy of water flows of rivers, ocean and sea currents, including those caused by tides. Wind and water-based energy sources form an essential part of the renewable energy solution. The engineering measures discussed in this book prove, for example, that by reducing the rate of dissipation of atmospheric surface low-level currents by only one percent, it is possible to provide all of humanity with energy at rates twice the per capita consumption of the wealthiest countries. Whether for the veteran engineer or the engineering student, this book is a must-have for any library.

SEPTEMBER 2021 UnknownPP
978-1-119-82930-0 CL \$225.00 (Japan)
Renewable Energy

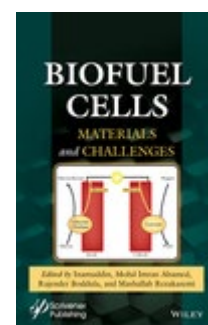
Biofuel Cells

Materials and Challenges

INAMUDDIN, MOHD IMRAN AHAMED, RAJENDER BODDULA
& MASHALLAH REZAKAZEMI

King Abdulaziz University, Jeddah, Saudi Arabia; Aligarh Muslim University, Aligarh, India; Aligarh Muslim University, Aligarh, India; National Center for Nanoscience and Technology (NCNST, Beijing)

Rapid industrialization and urbanization associated with the environment changes calls for reduced pollution and thereby least use of fossil fuels. Biofuel cells are bioenergy resources and biocompatible alternatives to conventional fuel cells. Biofuel cells are one of the new sustainable renewable energy sources that are based on the direct conversion of chemical matters to electricity with the aid of microorganisms or enzymes as biocatalysts. The gradual depletion of fossil fuels, increasing energy needs, and the pressing problem of environmental pollution have stimulated a wide range of research and development efforts for renewable and environmentally friendly energy. Energy generation from biomass resources by employing biofuel cells is crucial for sustainable development. Biofuel cells have attracted considerable attention as micro- or even nano-power sources for implantable biomedical devices, such as cardiac pacemakers, implantable self-powered sensors, and biosensors for monitoring physiological parameters. This book covers the most recent developments and offers a detailed overview of fundamentals, principles, mechanisms, properties, optimizing parameters, analytical characterization tools, various types of biofuel cells, all-category of materials, catalysts, engineering architectures, implantable biofuel cells, applications and novel innovations and challenges in this sector. This book is a reference guide for anyone working in the areas of energy and the environment.

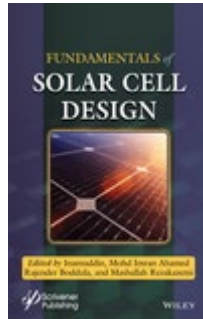


SEPTEMBER 2021 510PP
978-1-119-72469-8 CL \$225.00 (Japan)
Bioenergy

Fundamentals of Solar Cell Design

INAMUDDIN, MOHD IMRAN AHAMED, RAJENDER BODDULA
& MASHALLAH REZAKAZEMI

Solar cells are semiconductor devices that convert light photons into electricity in photovoltaic energy conversion and can help to overcome the global energy crisis. Solar cells have many applications including remote area power systems, earth-orbiting satellites, wristwatches, water pumping, photodetectors and remote radiotelephones. Solar cell technology is economically feasible for commercial-scale power generation. While commercial solar cells exhibit good performance and stability, still researchers are looking at many ways to improve the performance and cost of solar cells via modulating the fundamental properties of semiconductors. Solar cell technology is the key to a clean energy future. Solar cells directly harvest energy from the sun's light radiation into electricity are in an ever-growing demand for future global energy production.



Solar cell-based energy harvesting has attracted worldwide attention for their notable features, such as cheap renewable technology, scalable, lightweight, flexibility, versatility, no greenhouse gas emission, environment, and economy friendly and operational costs are quite low compared to other forms of power generation. Thus, solar cell technology is at the forefront of renewable energy technologies which are used in telecommunications, power plants, small devices to satellites. Aiming at large-scale implementation can be manipulated by various types used in solar cell design and exploration of new materials towards improving performance and reducing cost. Therefore, in-depth knowledge about solar cell design is fundamental for those who wish to apply this knowledge and understanding in industries and academics. This book provides a comprehensive overview on solar cells and explores the history to evolution and present scenarios of solar cell design, classification, properties, various semiconductor materials, thin films, wafer-scale, transparent solar cells, and so on. It also includes solar cells' characterization analytical tools, theoretical modeling, practices to enhance conversion efficiencies, applications and patents.

SEPTEMBER 2021 561PP
978-1-119-72470-4 CL \$225.00 (Japan)
Solar Energy & Photovoltaics

Smart Grid Enabling Technologies

SHADY S REFAAT, OMAR ELLABBAN, SERTAC BAYHAN,
HAITHAM ABU-RUB, FREDERIK BLAABJERG & MIROSLAV
BEGOVIC

Texas A&M University at Qatar

Discover foundational topics in smart grid technology as well as an exploration of the current and future state of the industry



As the relationship between fossil fuel use and climate change becomes ever clearer, the search is on for reliable, renewable and less harmful sources of energy. Sometimes called the electronet or the energy Internet, smart grids promise to integrate renewable energy, information, and communication technologies with the existing electrical grid and deliver electricity more efficiently and reliably.

Smart Grid and Enabling Technologies delivers a complete vision of smart grid technology and applications, including foundational and fundamental technologies, the technology that enables smart grids, the current state of the industry, and future trends in smart energy. The book offers readers thorough discussions of modern smart grid technology, including advanced metering infrastructure, net zero energy buildings, and communication, data management, and networks in smart grids. The accomplished authors also discuss critical challenges and barriers facing the smart grid industry as well as trends likely to be of import in its future development.

Perfect for scientists, researchers, engineers, graduate students, and senior undergraduate students studying and working with electrical power systems and communication systems. *Smart Grid and Enabling Technologies* will also earn a place in the libraries of economists, government planners and regulators, policy makers, and energy stakeholders working in the smart grid field.

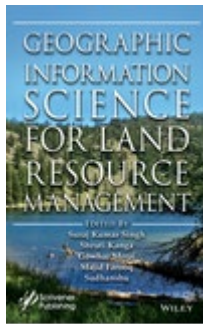
SERIES: WILEY – IEEE

SEPTEMBER 2021 512PP
978-1-119-42231-0 CL \$140.00 (Japan)
Smart Grid

Geographic Information Science for Land Resource Management

SURAJ KUMAR SINGH, SHRUTI KANGA, GOWAR MERAJ,
MAJID FAROOQ & SUDHANSHU SUDHANSHU

Geographic Information Science for Land Resource Management is a comprehensive book focusing on managing land resources using innovative techniques of spatial information sciences and satellite remote sensing. The enormous stress on the land resources over the years due to anthropogenic activities for commercialization and livelihood needs has increased manifold. The only solution to this problem lies in the stakeholders' awareness, which can only be attained through scientific means. The awareness is the basis of the sustainable development concept, which involves optimal management of natural resources, subject to the availability of reliable, accurate, and timely information from the global to local scales.



GIScience consists of satellite remote sensing (RS), Geographical Information System (GIS), and Global Positioning System (GPS) technology that is nowadays a backbone of environmental protection, natural resource management, and sustainable development and planning. Being a powerful and proficient tool for mapping, monitoring, modeling, and managing natural resources can help understand the earth's surface and its dynamics at different observational scales. Through the spatial understanding of land resources, policymakers can make prudent decisions to restore and conserve critically endangered resources, such as water bodies, lakes, rivers, air, forests, wildlife, biodiversity, etc.

This innovative new volume contains chapters from eminent researchers and experts. The primary focus of this book is to replenish the gap in the available literature on the subject by bringing the concepts, theories, and experiences of the specialists and professionals in this field jointly. The editors have worked hard to get the best literature in this field in a book form to help the students, researchers, and policymakers develop a complete understanding of the land system's vulnerabilities and solutions.

SEPTEMBER 2021 446PP
978-1-119-78632-0 CL \$225.00 (Japan)
Environmental Management, Policy & Planning

Global Careers in Environmental Science

JUSTIN TABERHAM

This book is the ideal guide to equipping you with the tools and know-how to develop an environmental career. It is filled with practical advice, case studies, personal profiles and top tips across the global environment sector.

An essential resource for anyone, from school students to those who are already in work but dreaming of a more meaningful career.

This book is the ideal guide to equipping you with the tools and know-how to develop an environmental career. It is filled with practical advice, case studies, personal profiles and top tips across the global environment sector.

An essential resource for anyone, from school students to those who are already in work but dreaming of a more meaningful career.

"This new book comes at exactly the right moment. There has never been a more critical time for effective, international action on our common ecological crisis, and success in that work requires a new generation of 21st Century environmental professionals."

--**Kevin Doyle**, Executive Director, Office of Career and Professional Development, Yale School of the Environment

"As an experienced green career coach, the top questions I hear from green job seekers are, 'What are the green jobs out there, which ones would be a good match, how do I get my foot in the door, and where do I find these jobs?' Taberham's book answers all of these in a refreshingly approachable way."

--**Lisa Yee-Litzenberg**, President, Green Career Advisor

"One of the biggest challenges environmental career seekers face is understanding and muddling through the opportunities available to them based on their experience, education, and interest. Taberham's book is a great resource to help people navigate their options and grab some tips for the career journey."

--**Laura Thorne**, The Environmental Career Coach

SEPTEMBER 2021 288PP
978-1-119-05284-5 CL \$45.00 (Japan)
Environmental Science

地球科学

Mantle Convection and Surface Expressions

EDITOR HAUKE MARQUARDT, EDITOR MAXIM BALLMER, EDITOR SANNE COTTAAR & EDITOR JASPER KONTER

University of Bayreuth, Bayreuth Germany; University of Oxford, Oxford, UK; Institute for Geophysics ETH Zürich Sonneggstrasse, Switzerland; University of Cambridge, Cambridge, UK; University of Hawaii at Manoa, Hawaii, USA

A multidisciplinary perspective on the dynamic processes occurring in Earth's mantle

The convective motion of material in Earth's mantle, powered by heat from the deep interior of our planet, drives plate tectonics at the surface, generating earthquakes and volcanic activity. It shapes our familiar surface landscapes, and also stabilizes the oceans and atmosphere on geologic timescales.



Mantle Convection and Surface Expressions brings together perspectives from observational geophysics, numerical modelling, geochemistry, and mineral physics to build a holistic picture of the deep Earth. It explores the dynamic processes occurring in the mantle as well as the associated heat and material cycles.

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

SEPTEMBER 2021 528PP
978-1-119-52861-6 CL \$199.95 (Japan)
Structural Geology & Tectonics

Earth Observation Using Python

A Practical Programming Guide

REBEKAH B. ESMALI

Learn basic Python programming to create functional and effective visualizations from earth observation satellite data sets

Thousands of satellite datasets are freely available online, but scientists need the right tools to efficiently analyze data and share results. Python has easy-to-learn syntax and thousands of libraries to perform common Earth science programming tasks.



Earth Observation Using Python: A Practical Programming Guide presents an example-driven collection of basic methods, applications, and visualizations to process satellite data sets for Earth science research.

- Gain Python fluency using real data and case studies
- Read and write common scientific data formats, like netCDF, HDF, and GRIB2
- Create 3-dimensional maps of dust, fire, vegetation indices and more
- Learn to adjust satellite imagery resolution, apply quality control, and handle big files
- Develop useful workflows and learn to share code using version control
- Acquire skills using online interactive code available for all examples in the book

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

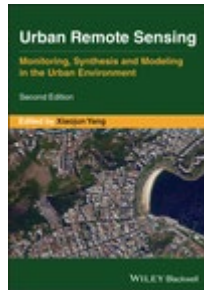
SEPTEMBER 2021 UnknownPP
978-1-119-60688-8 CL \$169.95 (Japan)
GIS & Remote Sensing

Urban Remote Sensing

2nd Edition

XIAOJUN X. YANG

The second edition of *Urban Remote Sensing* is a state-of-the-art review of the latest progress in the subject. The text examines how evolving innovations in remote sensing allow to deliver the critical information on cities in a timely and cost-effective way to support various urban management activities and the scientific research on urban morphology, socio-environmental dynamics, and sustainability.



Chapters are written by leading scholars from a variety of disciplines including remote sensing, GIS, geography, urban planning, environmental science, and sustainability science, with case studies predominately drawn from North America and Europe.

- A review of the essential and emerging research areas in urban remote sensing including sensors, techniques, and applications, especially some critical issues that are shifting the directions in urban remote sensing research.
- Illustrated in full color throughout, including numerous relevant case studies and extensive discussions of important concepts and cutting-edge technologies to enable clearer understanding for non-technical audiences.

Urban Remote Sensing, Second Edition will be of particular interest to upper-division undergraduate and graduate students, researchers and professionals working in the fields of remote sensing, geospatial information, and urban & environmental planning.

SEPTEMBER 2021 576PP
978-1-119-62584-1 CL \$155.00 (Japan)
GIS & REMOTE SENSING

Open Channel Design

Fundamentals and Applications

ERNEST W. TOLLNER

Professor of Biological and Agricultural Engineering at the University of Georgia

SEPTEMBER 2021 500PP
978-1-119-66424-6 CL \$130.00 (Japan)
Fluvial Hydrology & Limnology

ファイナンス／インベストメント

Business Financial Information Secrets

How a Business Produces and Utilizes Critical Financial Information

TAGE C. TRACY

Gain a comprehensive understanding of how businesses produce, report, and utilize essential financial information!

In this companion to *How to Read a Financial Report, 9th Edition*, bestselling financial author Tage Tracy delivers timeless knowledge on one of the most important functions of every business operating within the free market. Designed for managers, entrepreneurs, investors, and others who deal with vital financial information and the production of financial statements & reports "on the inside," *Business Financial Information Secrets* shows you how to produce, understand, and utilize financial information to the greatest effect for your business and the economy at large. This book guides you through the surprisingly clean and simple process of proper accounting and reporting, regardless of your organization's size or structure.



Cash flow and business capital management are covered extensively throughout the book as without a thorough understanding of these all-important concepts, you could be lacking critical information about the lifeline of your business. To sharpen your business skills and avoid preventable losses, read *Business Financial Information Secrets*. You'll learn everything you need to know about Profit & Loss Statements, Balance Sheets, and Cash Flow Statements, along with externally produced reports, additional internal financial information, and all the ins and outs of ensuring that reports are always 100% accurate.

Use this book for cost-effective solutions to provide reliable and timely financial information to shareholders, investors, lenders, analysts, government agencies, and beyond.

SEPTEMBER 2021 240PP
978-1-119-77900-1 PB \$22.95 (Japan)
General Finance & Investments

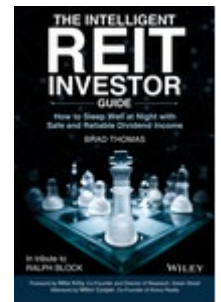
The Intelligent REIT Investor Guide

How to Sleep Well at Night with Safe and Reliable Dividend Income

BRAD THOMAS

Demystify real estate investment trusts with this masterful guide from an industry expert.

In *The Intelligent REIT Investor Guide*, author Brad Thomas walks you through both basic and advanced topics in the profitable, sustainable world of real estate investment trusts. From historical industry performance to the equations needed to calculate key metrics in REIT stocks, this book covers the history, vocabulary, principles, and analysis you'll need to invest wisely in this growing asset class. Find out how you can strengthen your investment decisions and conclusions with publicly traded REITs in the short- and long-terms alike.



With this book you'll:

- Understand exactly what REITs are, how they work, and why they've achieved such impressive historical returns
- Discover how REITS have performed over the decades up against other asset classes
- Compare and contrast the various subsectors -- such as residential, retail, office, healthcare, self-storage, lodging, technology, and more -- to understand which ones can work better in your personal portfolio.

Perfect for personal and professional investors alike, *The Intelligent REIT Investor Guide* is an invaluable guide to a crucial asset class that is often overlooked or poorly understood despite its undeniable impact on portfolios over the past 60 years.

SEPTEMBER 2021 272PP
978-1-119-75030-7 CL \$29.95 (Japan)
General Finance & Investments

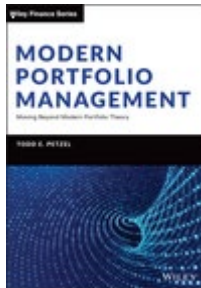
Modern Portfolio Management

Moving Beyond Modern Portfolio Theory

TODD E. PETZEL

Get a practical and thoroughly updated look at investment and portfolio management from an accomplished veteran of the discipline

In *Modern Portfolio Management: Moving Beyond Modern Portfolio Theory*, investment executive and advisor Dr. Todd E. Petzel delivers a grounded and insightful exploration of developments in finance since the advent of Modern Portfolio Theory. You'll find the tools and concepts you need to evaluate new products and portfolios and identify practical issues in areas like operations, decision-making, and regulation.



In this book, you'll also:

- Discover why Modern Portfolio Theory is at odds with developments in the field of Behavioral Finance
- Examine the never-ending argument between passive and active management and learn to set long-term goals and objectives
- Find investor perspectives on perennial issues like corporate governance, manager turnover, fraud risks, and ESG investing

Perfect for institutional and individual investors, investment committee members, and fiduciaries responsible for portfolio construction and oversight, *Modern Portfolio Management* is also a must-read for fund and portfolio managers who seek to better understand their investors.

SEPTEMBER 2021 704PP
978-1-119-81850-2 CL \$55.00 (Japan)
General Finance & Investments

A Practitioner's Guide to Asset Allocation

From Theory to Practice and Beyond

MARK P. KRITZMAN, WILLIAM KINLAW, DAVID TURKINGTON
& FOREWORD BY HARRY M. MARKOWITZ

Windham Capital Management Boston; State Street Associates; AIMR Research Foundation; University of New York

Discover a masterful exploration of the fallacies and challenges of asset allocation

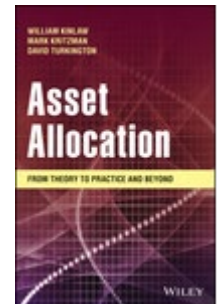
In *Asset Allocation: From Theory to Practice and Beyond*—the newly and substantially revised *Second Edition* of *A Practitioner's Guide to Asset Allocation*—accomplished finance professionals William Kinlaw, Mark P.

Kritzman, and David Turkington deliver a robust and insightful exploration of the core tenets of asset allocation.

Drawing on their experience working with hundreds of the world's largest and most sophisticated investors, the authors review foundational concepts, debunk fallacies, and address cutting-edge themes like factor investing and scenario analysis. The new edition also includes references to related topics at the end of each chapter and a summary of key takeaways to help readers rapidly locate material of interest.

Perfect for client-facing practitioners as well as scholars who seek to understand practical techniques, *Asset Allocation: From Theory to Practice and Beyond* is a must-read resource from an author team of distinguished finance experts and a forward by Nobel prize winner Harry Markowitz.

SEPTEMBER 2021 368PP
978-1-119-81771-0 CL \$39.95 (Japan)
General Finance & Investments



Safe Haven

Investing for Financial Storms

MARK SPITZNAGEL, SANTA MONICA, UNITED STATES & FOREWORD
BY NASSIM NICHOLAS TALEB

What is a safe haven? What role should they play in an investment portfolio? Do we use them only to seek shelter until the passing of financial storms? Or are they something more? Contrary to everything we know from modern financial theory, can higher returns actually come as a result of lowering risk?

In *Safe Haven* by hedge fund manager Mark Spitznagel, these questions and more are answered from the logical and unique perspective of one of the top practitioners of safe haven investing and risk mitigation in the world.



SEPTEMBER 2021 272PP
978-1-119-40179-7 CL \$27.95 (Japan)
General Finance & Investments

Wiley's Level I CFA Program Study Guide 2022

Complete Set

WILEY

John Wiley & Sons, Inc.

**Prepare efficiently and confidently for the Level 1 CFA Exam
and your future professional responsibilities**

Wiley's Level I CFA Program Study Guide 2022: Complete Set delivers a comprehensive set of materials proven to help you understand, retain, and master the CFA Program Curriculum. You'll get a highly effective study aid filled with exam tips, fundamental concepts, and in-depth worked examples.

This complete set of study materials covers every area of the Level 1 CFA exam, including ethical and professional standards, investment tools, asset classes, and portfolio management and wealth planning. You'll also get:

- Color-coded study guides pertaining to every Learning Outcome Statement on the exam
- Material prepared and created by CFA charterholders and instructors
- Hundreds of figures, diagrams, and graphs to help illustrate crucial concepts and ideas

Perfect for anyone studying for the Level I CFA exams, this complete set will prepare you not just for the exams themselves, but also for a lifetime of success working as a Chartered Financial Analyst.

SEPTEMBER 2021 UnknownPP
978-1-119-71422-4 PB \$235.00 (Japan)
Personal Finance / Financial Advising

Quantitative Trading

How to Build Your Own Algorithmic Trading Business, 2nd Edition

ERNEST P. CHAN

Master the lucrative discipline of quantitative trading with this insightful handbook from a master in the field

In the newly revised Second Edition of *Quantitative Trading: How to Build Your Own Algorithmic Trading Business*, quant trading expert Dr. Ernest P. Chan shows you how to apply both time-tested and novel quantitative trading strategies to develop or improve your own trading firm.



You'll discover new case studies and updated information on the application of cutting-edge machine learning investment techniques, as well as:

- Updated back tests on a variety of trading strategies, with included Python and R code examples
- A new technique on optimizing parameters with changing market regimes using machine learning.
- A guide to selecting the best traders and advisors to manage your money

Perfect for independent retail traders seeking to start their own quantitative trading business, or investors looking to invest in such traders, this new edition of *Quantitative Trading* will also earn a place in the libraries of individual investors interested in exploring a career at a major financial institution.

SERIES: WILEY TRADING

SEPTEMBER 2021 256PP
978-1-119-80006-4 CL \$49.95 (Japan)
TRADING

Interest Rate Risk in the Banking Book

A Best Practice Guide to Management and Hedging

BEATA LUBINSKA

Introduces practical approaches for optimizing management and hedging of Interest Rate Risk in the Banking Book (IRRBB) driven by fast evolving regulatory landscape and market expectations.



Interest rate risk in the banking book (IRRBB) gained its importance through the regulatory requirements that have been growing and guiding the banking industry for the last couple of years. The importance of IRRBB is shifting for banks, away from just a regulatory requirement to having an impact on the overall profitability of a financial institution. *Interest Rate Risk in the Banking Book* sheds light on the best practices for managing this importance risk category and provides detailed analysis of the hedging strategies, practical examples, and case studies based on the author's experience. This handbook is rich in practical insights on methodological approach and contents of ALCO report, IRRBB policy, ICAAP, Risk Appetite Statement (RAS) and model documentation. It is intended for the Treasury, Risk and Finance department and is helpful in improving and optimizing their IRRBB framework and strategy. By the end of this IRRBB journey, the reader will be equipped with all the necessary tools to build a proactive and compliant framework within a financial institution.

- Gain an updated understanding of the evolving regulatory landscape for IRRBB
- Learn to apply maturity gap analysis, sensitivity analysis, and the hedging strategy in banking contexts *
Understand how customer behavior impacts interest rate risk and how to manage the consequences
- Examine case studies illustrating key IRRBB exposures and their implications

Written by London market risk expert Beata Lubinska, *Interest Rate Risk in the Banking Book* is the authoritative resource on this evolving topic.

SERIES: WILEY FINANCE

SEPTEMBER 2021 304PP
978-1-119-75501-2 CL \$90.00 (Japan)
Finance & Investments Special Topics

外国語

Quantitative Portfolio Management

The Art and Science of Statistical Arbitrage

MICHAEL ISICHENKO

Discover foundational and advanced techniques in quantitative equity trading from a veteran insider

In *Quantitative Portfolio Management: The Art and Science of Statistical Arbitrage*, distinguished physicist-turned-quant Dr. Michael Isichenko delivers a systematic review of the quantitative trading of equities, or statistical arbitrage. The book teaches you how to source financial data, learn patterns of asset returns from historical data, generate and combine multiple forecasts, manage risk, build a stock portfolio optimized for risk and trading costs, and execute trades.



In this important book, you'll discover:

- Machine learning methods of forecasting stock returns in efficient financial markets
- How to combine multiple forecasts into a single model by using secondary machine learning, dimensionality reduction, and other methods
- Ways of avoiding the pitfalls of overfitting and the curse of dimensionality, including topics of active research such as "benign overfitting" in machine learning
- The theoretical and practical aspects of portfolio construction, including multi-factor risk models, multi-period trading costs, and optimal leverage

Perfect for investment professionals, like quantitative traders and portfolio managers, *Quantitative Portfolio Management* will also earn a place in the libraries of data scientists and students in a variety of statistical and quantitative disciplines. It is an indispensable guide for anyone who hopes to improve their understanding of how to apply data science, machine learning, and optimization to the stock market.

SEPTEMBER 2021 UnknownPP
978-1-119-82132-8 CL \$50.00 (Japan)
Finance & Investments Special Topics

Oye, ¿sabes qué?

1a edicion

NORMA LOPEZ-BURTON & JILL PELLETTIERI

SEPTEMBER 2021 UnknownPP
978-1-119-68355-1 PB \$125.79 (Japan)
Spanish Composition and Grammar

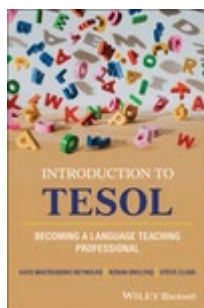
An Introduction to TESOL

Becoming a language teaching professional

KATE REYNOLDS, KENAN DIKILITAŞ & STEVE CLOSE

A comprehensive introduction to TESOL for new and future teachers of English, offering a full and detailed view of the process of becoming a language teacher

Introduction to TESOL: Becoming a Language Teaching Professional presents an expansive and well-balanced view of both the interdisciplinary knowledgebase and professional opportunities in the field of language teaching. Written to help aspiring TESOL educators understand how to begin their careers, this comprehensive textbook covers both the foundational linguistic elements of TESOL as well as the practical pedagogical aspects of the discipline.



Written with the needs of the introductory student in mind, this book delves into the essentials of English as a Second Language (ESL) and English as a Foreign Language (EFL) teaching, covering professional organizations, language acquisition theories, instructional practices, professional development, and more. Readers are provided with clear descriptions of recent research and contemporary practices, numerous illustrations and examples highlighting key material, and engaging real-world vignettes from professionals teaching internationally.

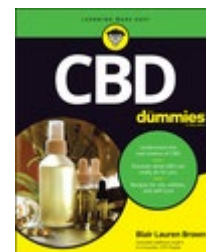
Introduction to TESOL: Becoming a Language Teaching Professional is essential reading for students and educators planning to enter this dynamic and rewarding area of language teaching.

SEPTEMBER 2021 456PP
978-1-119-63269-6 PB \$44.95 (Japan)
English as a Second Language

CBD For Dummies

BLAIR LAUREN BROWN

An informative, easy-to-understand resource that unveils the mysteries of CBD



CBD has emerged as a popular health product, but what's all the fuss about? *CBD For Dummies* reveals the reasons for the surge in interest about cannabidiol (CBD) and explains how to buy and use this remarkable product safely and responsibly. In an accessible, no-nonsense manner, author Blair Lauren Brown lays out the facts about CBD and outlines the many health conditions that may be helped by using CBD oil.

This book covers topics that people new to CBD have questions about. Highlights include:

- What CBD oil is and how it works in the body
- How to buy CBD from a reputable source and understanding a product's potency
- Knowing what conditions can be eased with CBD, including muscle pain, inflammation, autoimmune conditions, eating disorders, mental health disorders, and neurological conditions
- Preparing your own CBD edibles

Perfect for anyone interested in understanding the therapeutic potential of CBD, *CBD For Dummies* introduces you to everything you need to know about this cool compound.

SEPTEMBER 2021 UnknownPP
978-1-119-67472-6 PB \$19.99 (Japan)
Public Health General

公衆衛生

Self-Compassion For Dummies

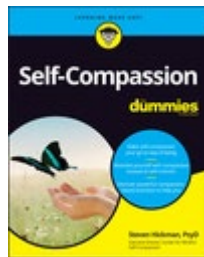
STEVEN HICKMAN

University of California, San Diego, USA

Become your own best friend and reap the life-changing benefits!

Being kind to yourself might sound simple, but self-compassion can change your life dramatically (and most of us are WAY kinder to others than to

ourselves) *Self-Compassion For Dummies* will help you discover self-critical thoughts and self-defeating behaviors that are holding you back from fulfilling your potential and explore how you can learn to work around these things to find your way to more joy and satisfaction. We often think being hard on ourselves will help motivate us to be better people, but Dr. Steven Hickman's review of the research finds that just the opposite is true. When you learn to love and appreciate yourself completely (as an imperfect human with messy feelings and uncomfortable thoughts), you free yourself up to achieve great things. This book will show you how!



Befriending yourself and coping mindfully with the challenges of everyday life is easy with this practical guide. You'll learn how to give yourself a taste of your own medicine by turning understanding, acceptance, and love--stuff you already do for others all the time--inward.

- Discover the research behind self-compassion and learn how it can help you face your insecurities and live a fuller life as a result
- Cultivate feelings of self-worth, acceptance, and love for someone who really deserves it--you!
- Explore the potential of self-compassion to address self-criticism, perfectionism, shame, self-doubt, anxiety, and anger
- Work through evidence-based exercises and practices to easily master the art of self-compassion as a daily way of being and not just an esoteric exercise

Now more than ever, we need to offer support and love to ourselves. Thankfully, this is a skill we can all develop with a little help from *Self-Compassion For Dummies*.

SEPTEMBER 2021 384PP
978-1-119-79668-8 PB \$24.99 (Japan)
Mental Health

Do No Harm

Protecting Connected Medical Devices, Healthcare, and Data from Hackers and Adversarial Nation States

MATTHEW WEBSTER

Discover the security risks that accompany the widespread adoption of new medical devices and how to mitigate them

In *Do No Harm: Protecting Connected Medical Devices, Healthcare, and Data from Hackers and Adversarial Nation States*, cybersecurity expert Matthew Webster delivers an insightful synthesis of the health benefits of the Internet of Medical Things (IoMT), the evolution of security risks that have accompanied the growth of those devices, and practical steps we can take to protect ourselves, our data, and our hospitals from harm.



You'll learn how the high barriers to entry for innovation in the field of healthcare are impeding necessary change and how innovation accessibility must be balanced against regulatory compliance and privacy to ensure safety.

Perfect for healthcare professionals, system administrators, and medical device researchers and developers, *Do No Harm* is an indispensable resource for anyone interested in the intersection of patient privacy, cybersecurity, and the world of Internet of Medical Things.

SEPTEMBER 2021 400PP
978-1-119-79402-8 PB \$30.00 (Japan)
Health & Health Care Special Topics

歴史

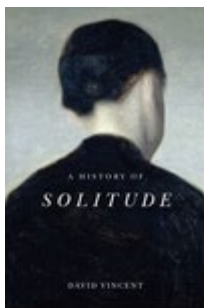
A History of Solitude

DAVID VINCENT

The Open University

Solitude has always had an ambivalent status: the capacity to enjoy being alone can make sociability bearable, but those predisposed to solitude are often viewed with suspicion or pity.

Drawing on a wide array of literary and historical sources, David Vincent explores how people have conducted themselves in the absence of company over the last three centuries. He argues that the ambivalent nature of solitude became a prominent concern in the modern era. For intellectuals in the romantic age, solitude gave respite to citizens living in ever more complex modern societies. But while the search for solitude was seen as a symptom of modern life, it was also viewed as a dangerous pathology: a perceived renunciation of the world, which could lead to psychological disorder and anti-social behaviour.



Vincent explores the successive attempts of religious authorities and political institutions to manage solitude, taking readers from the monastery to the prisoner's cell, and explains how western society's increasing secularism, urbanization and prosperity led to the development of new solitary pastimes at the same time as it made traditional forms of solitary communion, with God and with a pristine nature, impossible. At the dawn of the digital age, solitude has taken on new meanings, as physical isolation and intense sociability have become possible as never before. With the advent of a so-called loneliness epidemic, a proper historical understanding of the natural human desire to disengage from the world is more important than ever.

The first full-length account of its subject, *A History of Solitude* will appeal to a wide general readership.

SEPTEMBER 2021 352PP
978-1-5095-3659-7 PB \$19.95 (Japan)
9781509536580 CL \$35.00 (Japan), Published, April 2020
General & Introductory History

Love**A History in Five Fantasies**

BARBARA H. ROSENWEIN

Loyola University, Chicago

READERSHIP: The casual reader interested in emotions in general and in love in particular. It will also be useful in classes (history, psychology, sociology, anthropology) in which teachers want to show the relevance of history to the modern world and modern notions of emotions.



SEPTEMBER 2021 200PP
978-1-5095-3183-7 CL \$25.00 (Japan)
General & Introductory History

Nature's Evil

A Cultural History of Natural Resources

ALEXANDER ETKIND & TRANSLATED BY SARA JOLLY

King's College, Cambridge

READERSHIP: Students and scholars in politics, political economy, history, Russian Studies, environmental studies; the interested general reader

SERIES: NEW RUSSIAN THOUGHT

SEPTEMBER 2021 300PP
978-1-5095-4758-6 CL \$35.00 (Japan)
General & Introductory History



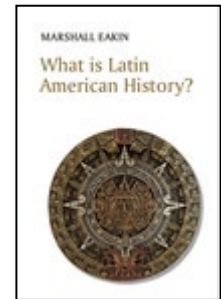
What is Latin American History?

MARSHALL EAKIN

READERSHIP: Students taking courses in Latin American history at undergraduate and graduate level.

SERIES: WHAT IS HISTORY?

SEPTEMBER 2021 176PP
978-1-5095-3851-5 CL \$64.95 (Japan)
978-1-5095-3852-2 PB \$22.95 (Japan)
General & Introductory History



World Politics since 1989

JONATHAN HOLSLAG

READERSHIP: Anyone interested in Cold War politics and history, as well as students of international relations.

SEPTEMBER 2021 304PP
978-1-5095-4672-5 CL \$30.00 (Japan)
World History

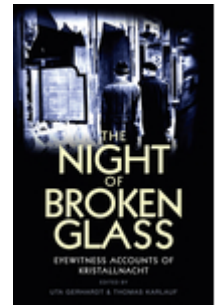


The Night of Broken Glass

Eyewitness Accounts of Kristallnacht

THOMAS KARLAUF & UTA GERHARDT

- A unique and disturbing document that presents eyewitness accounts of one of the most harrowing events in Nazi Germany, Kristallnacht.
- The testimonials paint a chilling picture of the everyday violence encountered by thousands of Jews in one of Europe's darkest moments.
- Published for the very first time in English, with a foreword by Saul Friedländer, the Pulitzer Prize-winning historian and Holocaust survivor.
- This book will be of great interest to anyone keen to learn more about modern history, Nazi Germany and the historical experience of the Jews.



READERSHIP: General readers; Jewish readers; anyone interested in the Holocaust and the Nazi period.

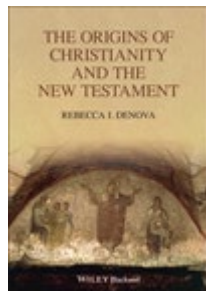
SEPTEMBER 2021 360PP
978-0-7456-5085-2 PB \$19.95 (Japan)
9780745650845 CL \$74.95 (Japan) Published, July 2012
Modern European History

The Origins of Christianity and the New Testament

REBECCA I. DENOVA

University of Pittsburgh

In *The Origins of Christianity and the New Testament*, distinguished scholar Rebecca I. Denova explores how the first followers of Jesus arrived at their faith, the way their sacred texts developed into the New Testament, and how their movement eventually became the religion of Christianity. This accessible volume examines the concepts, beliefs, issues, and events that gave rise to institutional Christianity--providing readers with the historical context of the gospels of Mark, Matthew, Luke, and John, the Acts of the Apostles, the Book of Revelation, the letters of Paul, and other foundational New Testament documents.



Approaching the subject from the multidisciplinary perspective of Religious Studies, the author addresses topics including the ethnic and religious background of "Jesus the Jew," the New Testament's different portraits of Jesus, the genesis of Christian concepts such as the divine incarnation and "second coming" of Jesus, Paul the Apostle's contributions to Christian dogma, how ancient Judaism, Greco-Roman culture, and early philosophy was incorporated into the Christian tradition, and more. Containing maps, timelines, figures of archaeological sites, a brief history of ancient Judaism, and a wealth of pedagogical features, *The Origins of Christianity and the New Testament* is an excellent textbook for all undergraduate and graduate courses in the study of ancient Christianity, as well as lay readers with interest in tracing the roots of the Christian faith.

SERIES: BLACKWELL ANCIENT RELIGIONS

SEPTEMBER 2021 288PP
978-1-119-75962-1 PB \$49.95
History of Christianity

法律

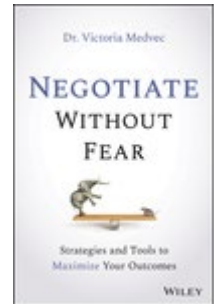
Negotiate Without Fear

Strategies and Tools to Maximize Your Outcomes

VICTORIA MEDVEC

The tools you need to maximize success in any negotiation, at any level

With *Negotiate Without Fear: Strategies and Tools to Maximize Your Outcomes*, master negotiator, Kellogg professor, and accomplished CEO Victoria Medvec delivers an authoritative and practical resource for eliminating the fear that impedes success in negotiation. In this book, readers will discover unique and proprietary negotiation strategies honed over decades advising Fortune 500 clients on high-stakes, complex negotiations.



Negotiate Without Fear provides readers at all levels of negotiation skill the ability to increase their negotiating confidence and maximize their negotiation success. You'll learn how to:

- Put the right issues on the table by defining your objectives for the negotiation
- Analyze the issues being negotiated with an Issue Matrix to ensure you have the right issues to secure what you want
- Establish ambitious goals using a proprietary tool to identify the weaknesses in the other side's best outside alternative (BATNA)
- Leverage a unique architecture for creating and delivering Multiple Equivalent Simultaneous Offers (MESOs)

Negotiate Without Fear belongs on the bookshelves of executives and all the dealmakers who work for them. Additionally, specific advice is provided in every chapter for individuals who are negotiating for themselves and in the everyday world. This book is an invaluable guide for anyone who hopes to sharpen their negotiating skills and achieve success in any arena.

SEPTEMBER 2021 256PP
978-1-119-71909-0 CL \$27.00 (Japan)
Negotiation & Conflict Resolution

ライフスタイル

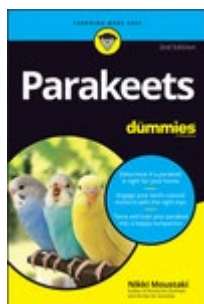
Parakeets For Dummies

2nd Edition

NIKKI MOUSTAKI, NORTH BAY VILLAGE, UNITED STATES

Tweet, tweet, parakeet! Your one-stop resource when you're ready to bring home a budgie

There are lots of perks to owning a parakeet (also known as a budgie). This book introduces you to your beautiful budgie buddy and prepares you to give that bird a home that other avian companions will envy. Perfect for first-time bird owners and seasoned bird parents, *Parakeets For Dummies* offers expert advice on adopting a parakeet and introducing it to other fur or feathered babies you might have. You'll also discover the best way to groom and train your parakeet and learn how to teach it to talk. And when your feathered friend appears to be under the weather, you can turn to this book to identify the symptoms of illness and know what to look for when choosing a vet for your pet.



- Discover whether a parakeet is a good fit for your family, including any existing birds and other pets
- Construct a comfortable enclosure and prep your home so your bird can play safely
- Protect your parakeet from common dangers and avoidable illnesses
- Feed your parakeet a healthy and varied diet to ensure a long and healthy life

This helpful handbook contains the latest tips and tools for parakeet care so your new family member will feel right at home right away.

SEPTEMBER 2021 96PP
978-1-119-75524-1 PB \$14.99 (Japan)
PET CARE / BIRDS

ライフサイエンス

Fundamental Molecular Biology

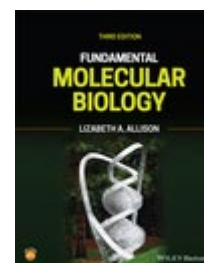
3rd Edition

LIZABETH A. ALLISON

College of William and Mary, Virginia

Fundamental Molecular Biology

Discover a focused and up to date exploration of foundational and core concepts in molecular biology



The newly revised Third Edition of *Fundamental Molecular Biology* delivers a selective and precise treatment of essential topics in molecular biology perfect for allowing students to develop an accurate understanding of the applications of the field. The book applies the process of discovery-observations, questions, experimental designs, results, and conclusions-with an emphasis on the language of molecular biology. Readers will easily focus on the key ideas they need to succeed in any introductory molecular biology course.

Fundamental Molecular Biology provides students with the most up to date techniques and research used by molecular biologists today. Readers of the book will have the support and resources they need to develop a concrete understanding of core and foundational concepts of molecular biology, without being distracted by outdated or peripheral material.

Perfect for instructors and professors of introductory molecular biology courses, *Fundamental Molecular Biology* will also earn a place in the libraries of anyone seeking to improve their understanding of molecular biology with an insightful and well-grounded treatment of the core principles of the subject.

SEPTEMBER 2021 816PP
978-1-119-15629-1 CL \$169.95 (Japan)
CELL & MOLECULAR BIOLOGY

Studies in Viral Ecology

2nd Edition

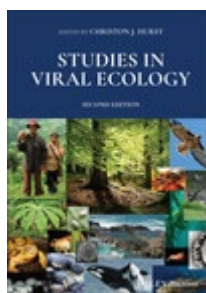
EDITOR CHRISTON J. HURST

U.S. Environmental Protection Agency, Cincinnati, Ohio

This second edition of *Studies in Viral Ecology* is designed to serve as a means of updating the knowledge of virologists regarding the broader aspects of viral ecology.

As with the first edition, this book explains the ecology of viruses by examining their interactive dynamics with their hosting species (covering both animals and plants), including the types of transmission cycles that viruses have evolved encompassing principal and alternate hosts, vehicles and vectoring species. Examining virology from an organismal biology approach and focusing on the concept that viral infections represent areas of overlap in the ecologies of the involved species, *Viral Ecology* is essential for students and professionals who either may be non-virologists or virologists whose previous familiarity has been very specialized. Now in its second edition, *Studies in Viral Ecology* explores the intricate interactions between viruses and other organisms from a "virocentric" perspective. Divided into five sections, the book opens with a thorough introduction to the ecology of all viruses, followed by detailed examinations that individually consider the viruses of other microorganisms, viruses of vascular plants, and viruses of vertebrate and invertebrate animals. The chapters have been written by leading scientists in their respective research fields and cover topics such as the evolution of fungal viruses, viruses affecting insects, viruses of terrestrial and marine mammals, and the relationship between humans, their viruses, and prions.

Studies in Viral Ecology, Second Edition remains required reading for virologists and virology instructors and students who study the interactions between virus and host at the individual species and higher taxonomic levels.



SEPTEMBER 2021 672PP
978-1-119-60836-3 CL \$185.00 (Japan)
MICROBIOLOGY & VIROLOGY

Nano-Technological Intervention in Agricultural Productivity

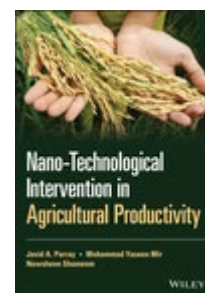
JAVID A. PARRAY, MOHAMMAD YASEEN MIR & NOWSHEEN SHAMEEM

Provides detailed information about the use of nanotechnology in remediating waste and pollution in agriculture

Nano-Technological Intervention in Agricultural Productivity explores sustainable, eco-friendly technologies for remediating wastes and contaminated areas in both water and land ecosystems. Focusing on nano-technological innovations that use microbes and microbial agents to improve the quality and pollutant discharge of contaminated sites, this comprehensive volume also discusses molecular approaches for the characterization of nanoparticles, the biosynthetic pathways of microbes, gene and protein expression studies for bio-deterioration techniques, and more.

Organized into nine chapters, the book opens with a thorough overview of the functions, classification, properties, synthesis, and applications of nanoparticles. Following a discussion of the environmental and agricultural implications of nanotechnology, the authors examine the current role and future prospects of nanotechnology in managing plant diseases, improving agri-food production, and increasing agricultural productivity. Subsequent chapters cover lignin nanoparticles, various applications of nanotechnology in agriculture, and nano-based advances in plant and microbial science.

Nano-Technological Intervention in Agricultural Productivity is a valuable resource for students in plant biotechnology and agricultural science and engineering, as well as an important reference for researchers in plant biotechnology and agricultural sciences, particularly those with interest in the use of nanomaterials for pollution remediation and sustainable development.



SEPTEMBER 2021 300PP
978-1-119-71485-9 CL \$200.00 (Japan)
Plant Biotechnology

数学

The Mathematics of Fluid Flow Through Porous Media

MYRON B. ALLEN III

University of Wyoming

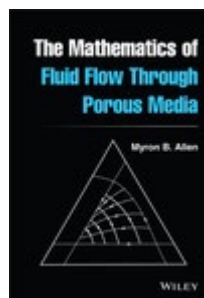
Master the techniques necessary to build and use computational models of porous media fluid flow

In *The Mathematics of Fluid Flow Through Porous Media*, distinguished professor and mathematician Dr. Myron B. Allen delivers a one-stop and mathematically rigorous source of the foundational principles of porous medium flow modeling. The book shows readers how to design intelligent computation models for groundwater flow, contaminant transport, and petroleum reservoir simulation.

Discussions of the mathematical fundamentals allow readers to prepare to work on computational problems at the frontiers of the field. Introducing several advanced techniques, including the method of characteristics, fundamental solutions, similarity methods, and dimensional analysis, *The Mathematics of Fluid Flow Through Porous Media* is an indispensable resource for students who have not previously encountered these concepts and need to master them to conduct computer simulations.

Perfect for graduate students in mathematics, civil engineering, petroleum engineering, soil science, and geophysics, *The Mathematics of Fluid Flow Through Porous Media* also belongs on the bookshelves of any researcher who wishes to extend their research into areas involving flows in porous media.

SEPTEMBER 2021 256PP
978-1-119-66384-3 CL \$130.00 (Japan)
Applied Mathematics



Generalized Ordinary Differential Equations in Abstract Spaces and Applications

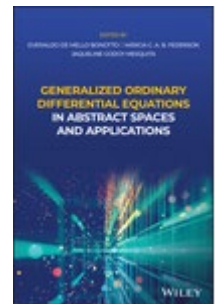
EDITOR EVERALDO DE MELLO BONOTTO, EDITOR MÁRCIA FEDERSON & EDITOR JAQUELINE GODOY MESQUITA

Explore a unified view of differential equations through the use of the generalized ODE from leading academics in mathematics

Generalized Ordinary Differential Equations in Abstract Spaces and Applications delivers a comprehensive treatment of new results of the theory of Generalized ODEs in abstract spaces. The book covers applications to other types of differential equations as well, including Measure Functional Differential Equations (measure FDEs). It presents a uniform collection of qualitative results of Generalized ODEs and offers readers an introduction to several theories, including ordinary differential equations, impulsive differential equations, functional differential equations, dynamical equations on time scales, and more.

Throughout the book, the focus is on qualitative theory and on corresponding results for other types of differential equations, as well as the connection between Generalized Ordinary Differential Equations and impulsive differential equations, functional differential equations, measure differential equations and dynamic equations on time scales. The book's descriptions will be of use in many mathematical contexts, as well as in the social and natural sciences. Perfect for researchers and graduate students in Differential Equations and Dynamical Systems, *Generalized Ordinary Differential Equations in Abstract Spaces and Applications* will also earn a place in the libraries of advanced undergraduate students taking courses in the subject and hoping to move onto graduate studies.

SEPTEMBER 2021 624PP
978-1-119-65493-3 CL \$115.00 (Japan)
Differential Equations



An Introduction to Differential Geometry with Tensor Applications

EDITOR DIPANKAR DE

Introduction to Differential Geometry with Tensor Applications discusses the theory of tensors, curves and surfaces and their applications in Newtonian mechanics. Since tensor analysis deals with entities and properties that are independent of the choice of reference frames, it forms an ideal tool for the study of differential geometry and also of classical and celestial mechanics. This book provides a profound introduction to the basic theory of differential geometry: curves and surfaces and analytical mechanics with tensor applications. The author has tried to keep the treatment of the advanced material as lucid and comprehensive as possible, mainly by including utmost detailed calculations, numerous illustrative examples, and a wealth of complementing exercises with complete solutions making the book easily accessible even to beginners in the field.

Groundbreaking and thought-provoking, this volume is an outstanding primer for modern differential geometry and is a basic source for a profound introductory course or as a valuable reference. It can even be used for self-study, by students or by practicing engineers interested in the subject. Whether for the student or the veteran engineer or scientist, *Introduction to Differential Geometry with Tensor Applications* is a must-have for any library.

SERIES: MODERN MATHEMATICS IN COMPUTER SCIENCE

SEPTEMBER 2021 UnknownPP
978-1-119-79562-9 CL \$225.00 (Japan)
Geometry & Topology

How to Pass the FRACP Written Examination

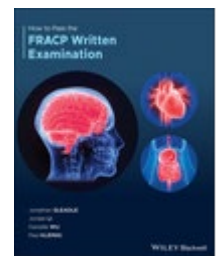
JONATHAN GLEADLE, JORDAN LI, DANIELLE WU & PAUL KLEINIG

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

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

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

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



SEPTEMBER 2021 512PP
978-1-119-59950-0 PB \$85.00 (Japan)
Medical Professional Development

Successful Training in Gastrointestinal Endoscopy

2nd Edition

JONATHAN COHEN

New York University School of Medicine

Successful Training in Gastrointestinal Endoscopy is a key purchase for all gastroenterologists, whether in training or more experienced, to allow them to develop and perfect their endoscopic skills. It is a particularly useful guide for those interested in mastering the latest new techniques and procedures, and an essential reference for both teachers of endoscopy and students alike.



SEPTEMBER 2021 443PP
978-1-119-52964-4 CL \$199.95 (Japan)
GASTROENTEROLOGY

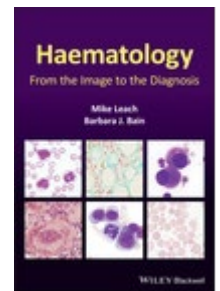
Haematology

From the Image to the Diagnosis

MIKE LEACH & BARBARA J. BAIN, LONDON, UNITED KINGDOM

St Mary's Hospital, London, UK

Diagnostic haematology requires the assessment of clinical and laboratory data together with a careful morphological assessment of cells in blood, bone marrow and tissue fluids. Subsequent investigations including flow cytometry, immunohistochemistry, cytogenetics and molecular studies are guided by the original morphological findings. These targeted investigations help generate a prompt unifying diagnosis. *Haematology: From the Image to the Diagnosis* presents a series of cases illustrating how skills in morphology can guide the investigative process. In this book, the authors capture a series of images to illustrate key features to recognize when undertaking a morphological review and show how they can be integrated with supplementary information to reach a final diagnosis.



Using a novel format of visual case studies, this text mimics 'real life' for the practising diagnostic haematologist -- using brief clinical details and initial microscopic morphological triage to formulate a differential diagnosis and a plan for efficient and economical confirmatory investigation to deduce the correct final diagnosis. The carefully selected, high-quality photomicrographs and the clear, succinct descriptions of key features, investigations and results will help haematologists, clinical scientists, haematology trainees and haematopathologists to make accurate diagnoses in their day-to-day work.

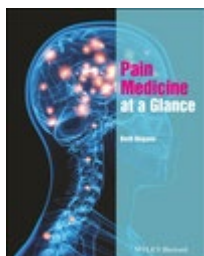
Covering a wide range of topics, and including paediatric as well as adult cases, *Haematology: From the Image to the Diagnosis* is a succinct visual guide which will be welcomed by consultants, trainees and scientists alike.

SEPTEMBER 2021 304PP
978-1-119-77750-2 CL \$115.00 (Japan)
Haematology

Pain Medicine at a Glance

BETH B. HOGANS

Pain Medicine at a Glance is a user-friendly, visual introduction to the impact of pain in various clinical care settings, focusing on primary care needs. Aligned with learning objectives developed by the Johns Hopkins School of Medicine, this authoritative guide covers the basic forms and pathophysiology of pain, the clinical skills necessary for delivering excellent care, pharmacological and non-pharmacological treatments, and a variety of special cases such as healthcare ethics, integrative care, and treatment planning for chronic pain self-management therapy and the management of pain in children and older adults.



A new addition to the market-leading *at a Glance* series, the text offers concise and accessible chapters, full-color illustrations, self-assessment questions, and easy-to-follow diagrams. Topics include pain assessment, cognitive factors that influence pain, applying behavioral perspectives on pain, managing opioids and other pharmacological therapies, treating acute pain in patients with substance abuse issues, and more. Perfect for learning, revision, and teaching, this book:

- Provides a foundation of clinical and basic science knowledge about pain and its mechanisms
- Describes major forms of pain, including surgical, orofacial, musculoskeletal, and obstetric pain
- Offers advice on fostering empathy and compassionate practices in pain medicine
- Covers non-pharmacological treatments such as physical therapy, hydrotherapy, meditation, acupuncture, massage, and various focal treatments
- Includes discussion of recent advances and new discoveries in pain science

Pain Medicine at a Glance is the ideal companion for medical and healthcare students, junior doctors, advanced practice providers, nurse practitioners, and others involved in diagnosing and treating pain-associated illness.

SERIES: AT A GLANCE

SEPTEMBER 2021 160PP
978-1-118-83766-5 PB \$39.95 (Japan)
Medical Education

Metaheuristics for Structural Design and Analysis

Y. CENGİZ TOKLU, GEBRAİL BEKDAS & SINAN MELİH NİGDELI

Metaheuristics for Structural Design and Analysis discusses general properties and types of metaheuristic techniques, basic principles of topology, shape and size optimization of structures, and applications of metaheuristic algorithms in solving structural design problems. Analysis of structures using metaheuristic algorithms is also discussed. Comparisons are made with classical methods and modern computational methods through metaheuristic algorithms. The book is designed for senior structural engineering students, graduate students, academicians and practitioners.

SEPTEMBER 2021 246PP
978-1-78630-234-2 CL \$165.00 (Japan)
Mechanical Engineering - Design

Reliability in Rotating Machinery

ROBERT X. PEREZ

Rotating machinery represents a broad category of equipment, which includes pumps, compressors, fans, gas turbines, electric motors, internal combustion engines, and other equipment, that are critical to the efficient operation of process facilities around the world. These machines must be designed to move gases and liquids safely, reliably, and in an environmentally friendly manner. To fully understand rotating machinery, owners must be familiar with their associated technologies, such as machine design, lubrication, fluid dynamics, thermodynamics, rotordynamics, vibration analysis, condition monitoring, maintenance practices, reliability theory, and other topics.

The goal of the "Advances in Rotating Machinery" book series is to provide industry practitioners a time-savings means of learning about the most up-to-date rotating machinery ideas and best practices. This three-book series will cover industry-relevant topics, such as design assessments, modeling, reliability improvements, maintenance methods and best practices, reliability audits, data collection, data analysis, condition monitoring, and more.

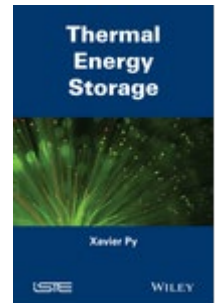
This first volume begins the series by focusing on rotating machinery design assessments, modeling and analysis, and reliability improvement ideas. This broad collection of current rotating machinery topics, written by industry experts, is a must-have for rotating equipment engineers, maintenance personnel, students, and anyone else wanting to stay abreast with current rotating machinery concepts and technology.

SEPTEMBER 2021 UnknownPP
978-1-119-63168-2 CL \$249.00 (Japan)
Mechanical Engineering - Design

Thermal Energy Storage

XAVIER PY

The book describes all thermal energy storage (TES) aspects including basic involved mechanisms, functionalities, conventional and advanced storage materials, envelopes and heat transfer fluids, systems and their integration. All those issues are presented through practical examples of domestic and industrial applications of actual interest in order to highlight major limitations and needs in future innovations. The illustrative applications (three per basic mechanisms) have been selected in such a way to cover a wide range of temperature, capacity and power ranges.



SEPTEMBER 2021 UnknownPP
978-1-84821-666-2 CL \$165.00 (Japan)
Thermodynamics

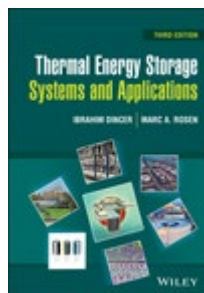
Thermal Energy Storage Systems and Applications

3rd Edition

IBRAHIM DINCER & MARC A. ROSEN

KFUPM, Saudi Arabia ; University of Ontario Institute of Technology, Canada

Provides students and engineers with up-to-date information on methods, models, and approaches in thermal energy storage systems and their applications in thermal management and elsewhere



Thermal energy storage (TES) systems have become a vital technology for renewable energy systems and are increasingly being used in commercial and industrial applications including space and water heating, cooling, and air conditioning. TES technology has the potential to be a sustainable, cost-effective, and eco-friendly approach for facilitating more effective use of thermal equipment and correcting the imbalance that can occur between the supply and demand of energy.

The third edition of *Thermal Energy Storage Systems and Applications* contains detailed coverage of new methodologies, models, experimental works, and methods in the rapidly growing field. Extensively revised and updated throughout, this comprehensive volume covers integrated systems with energy storage options, environmental impact and sustainability, design, analysis, assessment criteria, advanced tools in exergy and extended exergy, and more. New and expanded chapters address topics such as renewable energy systems in which thermal energy storage is essential, sensible and latent TES systems, and numerical modelling, simulation, and analysis of TES systems.

Thermal Energy Storage Systems and Applications, Third Edition is the perfect textbook for advanced undergraduate and graduate courses in mechanical, chemical, and electrical engineering, and a highly useful reference for energy engineers and researchers.

SEPTEMBER 2021 640PP
978-1-119-71315-9 CL \$160.00 (Japan)
THERMODYNAMICS

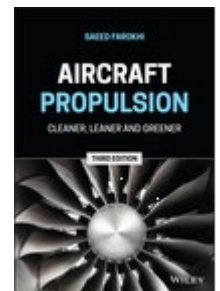
Aircraft Propulsion

Cleaner, Leaner, and Greener, 3rd Edition

SAEED FAROKHI

University of Kansas

Explore the latest edition of a leading resource on sustainable aviation, alternative jet fuels, and new propulsion systems



The newly revised Third Edition of *Aircraft Propulsion* delivers a comprehensive update to the successful second edition with a renewed focus on the integration of sustainable aviation concepts. The book tackles the impact of aviation on the environment at the engine component level, as well as the role of propulsion system integration on fuel burn. It also discusses combustion emissions, including greenhouse gases, carbon monoxide, unburned hydrocarbons (UHC) and oxides of nitrogen (NOx).

Alternative jet fuels, like second generation biofuels and hydrogen, are presented. The distinguished author covers aviation noise from airframe to engine and its impact on community noise in landing and takeoff cycles. The book includes promising new technologies for propulsion and power, like the ultra-high bypass (UHB) turbofan and hybrid-electric and electric propulsion systems.

Perfect for aerospace and mechanical engineering students in the United States and overseas, *Aircraft Propulsion* will also earn a place in the libraries of practicing engineers in the aerospace and green engineering sectors seeking the latest up to date resource on sustainable aviation technologies.

SEPTEMBER 2021 1152PP
978-1-119-71864-2 CL \$110.00 (Japan)
AERONAUTIC & AEROSPACE ENGINEERING

材料科学

81st Conference on Glass Problems

ACERS (AMERICAN CERAMICS SOCIETY, THE)

The 81st Conference on Glass Problems (GPC) was organized by the Kazuo Inamori School of Engineering, The New York State College of Ceramics, Alfred University, Alfred, NY 14802 and The Glass Manufacturing Industry Council (GMIC), Westerville, OH 43082. The Program Director was S. K. Sundaram, Inamori Professor of Materials Science and Engineering, Kazuo Inamori School of Engineering, The New York State College of Ceramics, Alfred University, Alfred, NY 14802. The Conference Director was Bob Lipetz, Executive Director, Glass Manufacturing Industry Council (GMIC), Westerville, OH 43082. The GPC Advisory Board (AB) included the Program Director, the Conference Director, and several industry representatives. The Board assembled the technical program. Donna Banks of the GMIC coordinated the events and provided support. Due to world-wide COVID-19 pandemic, the conference was a virtual event. It started with a full-day plenary session followed by technical sessions.



SERIES: CERAMIC TRANSACTIONS SERIES

SEPTEMBER 2021 160PP
978-1-119-82299-8 CL \$250.00 (Japan)
Ceramics

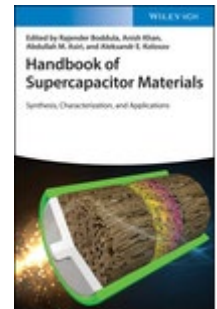
Handbook of Supercapacitor Materials

Synthesis, Characterization, and Applications

EDITOR RAJENDER BODDULA, EDITOR ANISH KHAN, EDITOR
ABDULLAH M. ASIRI & EDITOR ALEKSANDR E. KOLOSOV

The book gives a topical overview of novel, nature-inspired materials that can be used for fabrication of supercapacitors.

SEPTEMBER 2021 386PP
978-3-527-34687-5 CL \$169.66 (Japan)
Electronic Materials

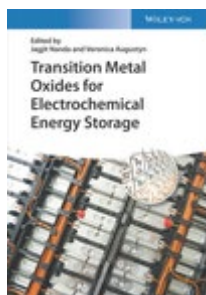


Transition Metal Oxides for Electrochemical Energy Storage

EDITOR JAGJIT NANDA & EDITOR VERONICA AUGUSTYN

Explore the most authoritative handbook on transition metal oxides for energy storage

Metal oxides have become one of the most important classes of materials in energy storage and conversion. They continue to have tremendous potential for research into new materials and devices in a wide variety of fields. *Transition Metal Oxides for Electrochemical Energy Storage* delivers an insightful, concise, and focused exploration of the science and applications of metal oxides in intercalation-based batteries, solid electrolytes for ionic conduction, pseudocapacitive charge storage, transport and 3D architectures and interfacial phenomena and defects.



The book serves as a one-stop reference for materials researchers seeking foundational and applied knowledge of the titled material classes. *Transition Metal Oxides* offers readers in-depth information covering electrochemistry, morphology, and both in situ and in operando characterization. It also provides novel approaches to transition metal oxide-enabled energy storage, like interface engineering and three-dimensional nanoarchitectures.

Perfect for materials scientists, electrochemists, inorganic chemists, and applied physicists, *Transition Metal Oxides for Electrochemical Energy Storage* will also earn a place in the libraries of engineers in power technology and professions working in the electrotechnical industry seeking a one-stop reference on transition metal oxides for energy storage.

SEPTEMBER 2021 500PP
978-3-527-34493-2 CL \$193.97 (Japan)
Electronic Materials

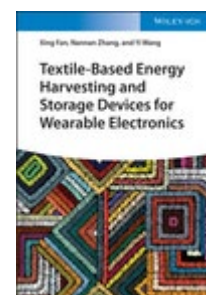
Textile-Based Energy Harvesting and Storage Devices for Wearable Electronics

XING FAN, NANNAN ZHANG & YI WANG

National Institute of Standards & Technology, USA

Discover state-of-the-art developments in textile-based wearable and stretchable electronics from leaders in the field

In *Textile-Based Energy Harvesting and Storage Devices for Wearable Electronics*, renowned researchers Professor Xing Fan and his co-authors deliver an insightful and rigorous exploration of textile-based energy harvesting and storage systems. The book covers the principles of smart fibers and fabrics, as well as their fabrication methods. It introduces, in detail, several fiber- and fabric-based energy harvesting and storage devices, including photovoltaics, piezoelectrics, triboelectrics, supercapacitors, batteries, and sensing and self-powered electric fabrics. The authors also discuss expanded functions of smart fabrics, like stretchability, hydrophobicity, air permeability and color-changeability. The book includes sections on emerging electronic fibers and textiles, including stress-sensing, strain-sensing, and chemical-sensing textiles, as well as emerging self-powered electronic textiles. *Textile-Based Energy Harvesting and Storage Devices for Wearable Electronics* concludes with an in-depth treatment of upcoming challenges, opportunities, and commercialization requirements for electronic textiles, providing valuable insight into a highly lucrative new commercial sector.



Perfect for materials scientists, engineering scientists, and sensor developers, *Textile-Based Energy Harvesting and Storage Devices for Wearable Electronics* is also an indispensable resource for electrical engineers and professionals in the sensor industry seeking a one-stop reference for fiber- and fabric-based energy harvesting and storage systems for wearable and stretchable power sources.

SEPTEMBER 2021 436PP
978-3-527-34524-3 CL \$163.75 (Japan)
Materials for Energy Systems

ナノテクノロジー

Functionalized Nanomaterials for Catalytic Application

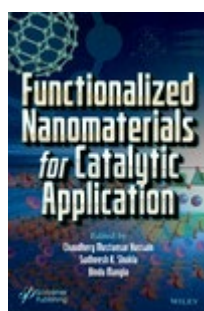
EDITOR CHAUDHERY MUSTANSAR HUSSAIN, EDITOR SUDHEESH K. SHUKLA & EDITOR BINDU MANGLA

New Jersey Institute of Technology (NJIT), USA; University of Johannesburg, South Africa

With the rapid development in nanotechnology, it is now possible to modulate the physical and chemical properties of nanomaterials with molecular recognition and catalytic functional applications. Such research efforts have resulted in a huge number of catalytic platforms for a broad range of analytes ranging from metal ions, small molecules, ionic liquid and nucleic acids down to proteins. Functionalized nanomaterials (FNMs) have important applications in the environmental, energy and healthcare sectors. Strategies for the synthesis of FNMs have contributed immensely to the textile, construction, cosmetics, biomedical and environmental industries among others.

This book highlights the design of functionalized nanomaterials with respect to recent progress in the industrial arena and their respective applications. It presents an inclusive overview encapsulating FNMs and their applications to give the reader a systematic and coherent picture of nearly all relevant up-to-date advancements. Herein, functionalization techniques and processes are presented to enhance nanomaterials that can substantially affect the performance of procedures already in use and can deliver exciting consumer products to match the current lifestyle of modern society.

SEPTEMBER 2021 522PP
978-1-119-80897-8 CL \$225.00 (Japan)
Nanomaterials

**Magnetic Nanoparticles in Human Health and Medicine**

COSTICA CAIZER & EDITOR MAHENDRA RAI

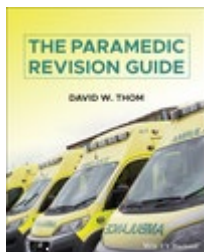
SEPTEMBER 2021 544PP
978-1-119-75467-1 CL \$170.00 (Japan)
Nanomedicine

ナーシング

The Paramedic Revision Guide

DAVID W. THOM

The Paramedic Revision Guide delivers a one-stop reference for paramedic students, paramedic educators, and practicing paramedics. Designed to take the mystery out of paramedic education, the book provides a solid foundation of understanding in crucial areas of paramedic science and practice, including practical skills, research, anatomy and physiology, pharmacology, and medical emergencies.



This guide furthers readers' understanding and practice of emergency care, and includes:

- A thorough introduction to paramedic anatomy and physiology, including anatomical and medical terms, cellular biology, and pediatrics
- An exploration of practical skills for paramedics, including scene survey, airway practices, basic life support and defibrillation, burns, and head injuries
- Practical discussions of medical emergencies, research and evidence-based practice, and the ethical and legal considerations for paramedics
- An analysis of pre-hospital trauma treatment, including the physics and physiology of trauma

The Paramedic Revision Guide earns a place on the shelves of all paramedic students and educators who need a comprehensive handbook full of succinct and easily digestible information, ideal for exam preparation and quick reference.

SEPTEMBER 2021 288PP
978-1-119-75806-8 PB \$45.00 (Japan)
Acute, Critical & Emergency Care

物理学

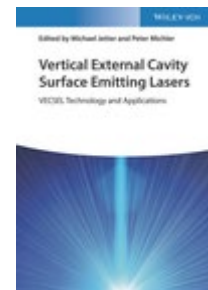
Vertical Cavity Surface Emitting Lasers

VECSEL Technology and Applications

EDITOR MICHAEL JETTER & EDITOR PETER MICHLER

In this ready reference leading research groups from Europe and the USA share their inside knowledge on all fundamental and technological aspects of vertical external cavity surface emitting lasers (VECSELs).

Following a brief review of the physics and technology behind optically and electrically pumped disk lasers, the authors go on to discuss new developments of these devices in the different wavelength ranges. In addition, the novel concepts of DBR-free and MECSEL lasers are summarized for the first time in book form. The final part deals with the mode-locking concept and its realization up to the description of frequency-comb generation. The book concludes with an overview of the MIXEL concept and the emerging idea of self-mode locking. A unique handbook for laser specialists, physicists in industry and semiconductor physicists, those working in the optical industry, spectroscopists, and telecommunications engineers.



SEPTEMBER 2021 460PP
978-3-527-41362-1 CL \$195.00 (Japan)
Laser

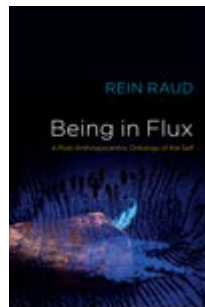
哲学

Being in Flux

A Post-Anthropocentric Ontology of the Self

REIN RAUD

READERSHIP: Students and scholars in philosophy and in the humanities generally.



SEPTEMBER 2021 256PP
978-1-5095-4950-4 CL \$69.95 (Japan)
978-1-5095-4951-1 PB \$26.95 (Japan)
General Philosophy

The Fragile Skin of the World

JEAN-LUC NANCY & TRANSLATED BY CORY STOCKWELL

READERSHIP: Students and scholars in philosophy; humanities generally; followers of the work of Nancy; general readers interested in contemporary philosophy and critical theory



SEPTEMBER 2021 140PP
978-1-5095-4915-3 CL \$59.95 (Japan)
978-1-5095-4916-0 PB \$19.95 (Japan)
General Philosophy

The Philosophy of Philosophy

2nd Edition

TIMOTHY WILLIAMSON

New College, Oxford, UK

SERIES: THE BLACKWELL / BROWN LECTURES IN PHILOSOPHY

SEPTEMBER 2021 680PP
978-1-119-61667-2 CL \$99.95 (Japan)
GENERAL PHILOSOPHY

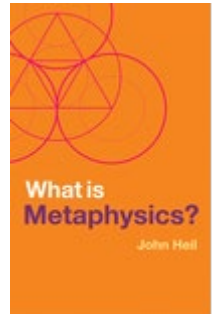
What is Metaphysics?

JOHN HEIL

READERSHIP: First-year philosophy students and students of theology, as well as those interested in learning about metaphysics who are complete beginners

SERIES: WHAT IS PHILOSOPHY?

SEPTEMBER 2021 176PP
978-1-5095-4648-0 CL \$64.95 (Japan)
978-1-5095-4649-7 PB \$19.95 (Japan)
Introductions to Philosophy



Positive Ethics for Mental Health Professionals

A Proactive Approach, 2nd Edition

SHARON K. ANDERSON & MITCHELL M. HANDELSMAN

Colorado State University; University of Colorado at Denver

Develop a practical and comprehensive view of professional ethics

In the newly updated Second Edition of *Positive Ethics for Mental Health Professionals: A Proactive Approach*, distinguished psychologists Drs. Sharon K. Anderson and Mitchell M. Handelsman deliver an insightful guide for mental health professionals and trainees to strengthen and/or develop their professional and ethical identities.

Utilizing the same informal and inviting tone of the first edition, Anderson and Handelsman share the literature and provide positive discussions, exercises, case scenarios, and writing assignments, to help you explore and develop your ethical core. You'll also develop your self-reflective skills to learn how to make excellent ethical choices regarding psychotherapy and counseling.

This edition of the book also offers:

- An introduction of the idea of "tripping points", or predictable pitfalls, when making ethical choices.
- Discussions of nonrational factors in ethical decision-making, including biases, heuristics, and emotional influences.
- A renewed focus on ethical acculturation, which emphasizes the importance of your own background in the development of your ethical identity.

Perfect for undergraduate and graduate students studying psychotherapy and mental health counseling, *Positive Ethics for Mental Health Professionals*, will also earn a place in the libraries of mental health practitioners seeking a primer on the complicated ethical issues that inevitably arise in their practices- and how to prepare for them and navigate them.

SEPTEMBER 2021 192PP
978-1-119-62842-2 PB \$25.00 (Japan)
Bioethics & Medical Ethics

My Secret Brexit Diary

A Glorious Illusion

MICHEL BARNIER & TRANSLATED BY ROBIN MACKAY

READERSHIP: General readers interested in British and European politics

SEPTEMBER 2021 450PP
978-1-5095-5086-9 CL \$35.00 (Japan)
British Politics

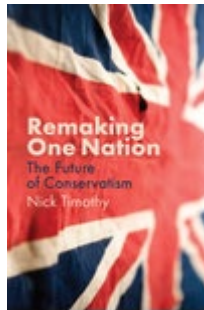
Remaking One Nation

The Future of Conservatism

NICK TIMOTHY

In these divided and divisive times, what is the future course for our politics?

In this ground-breaking book, Nick Timothy, one of Britain's leading conservative thinkers and commentators, explores the powerful forces driving great changes in our economy, society and democracy. Drawing on his experience at the top of government, Timothy traces the crisis of Western democracy back to both the mistaken assumptions of philosophical liberalism and the rise of ideological ultra-liberalism on left, right and centre.



Sparing no sacred cows, he proposes a new kind of conservatism that respects personal freedom but also demands solidarity. He argues that only by rediscovering a unifying sense of the common good and restoring a mutual web of responsibilities between all citizens and institutions can we reject the extremes of economic and cultural liberalism, overcome our divisions, and remake one nation. He goes on to outline an ambitious practical plan for change, covering issues ranging from immigration to the regulation of Big Tech.

Nick Timothy's original, forensic and thought-provoking analysis is a must-read for anybody tired by the old dogmas of the liberal left, right and centre. It is a major contribution to the debate on the future of conservatism as it grapples with geopolitical shifts, cultural change, and economic uncertainty.

SEPTEMBER 2021 304PP
978-1-5095-3918-5 PB \$16.95 (Japan)
CL \$25.00 (Japan), Published Mar 2020
British Politics

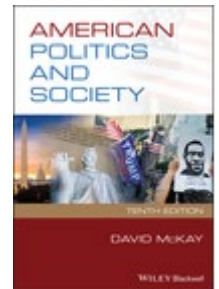
American Politics and Society

10th Edition

DAVID MCKAY

University of Essex

Provides an up-to-date introduction and analysis of the US political scene written from a comparative perspective, newly revised and updated throughout



American Politics and Society in an accessible introduction to the main institutions of the US federal government, discussing the most recent developments in broader economic, social, and comparative contexts. Now in its tenth edition, this popular textbook applies an international perspective to the relevance of historical trends, research findings in political science, and present-day governmental procedures, structures, and debates. Acclaimed author David McKay guides students through the complexities of the American political system while encouraging them to evaluate the widening ideological divide that now defines American political life and public discourse.

Since the publication of the previous edition, America has undergone some of the most dramatic events in its history--from the COVID-19 pandemic, to the widespread protests against racial and economic injustice, to the aggressive populist rhetoric of Donald Trump, to the bitterly contested 2020 presidential election that culminated in the violent assault on the US Capitol. In this edition, the author addresses the escalating ideological conflict, the rise of extremism in the Republican Party, arguments over the proper role of government, the public's expectations of politicians and political processes, and more.

Thanks to its clear and engaging narrative and its wealth of pedagogical features, *American Politics and Society, Tenth Edition* remains the ideal introductory textbook for courses exploring the institutions and processes of the US government and the most important events in the current American social and political landscape.

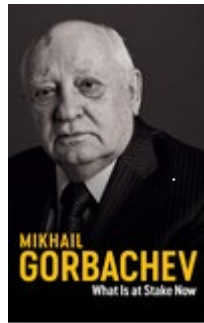
SEPTEMBER 2021 640PP
978-1-119-57836-9 PB \$42.95 (Japan)
AMERICAN POLITICS

What Is at Stake Now

My Appeal for Peace and Freedom

MIKHAIL GORBACHEV & TRANSLATOR JESSICA SPENGLER

READERSHIP: General readers interested in current affairs, international politics and the relations between Russia and the West; students and scholars in politics, IR, security studies and Russian Studies.



SEPTEMBER 2021 140PP
978-1-5095-4322-9 PB \$9.95 (Japan)
9781509543212 CL \$16.95 (Japan), Published September 2020
Political Systems

Political Theory Without Borders

ROBERT E. GOODIN & JAMES S. FISHKIN

Australian National University; Stanford University, USA

- The latest in the prestigious and highly acclaimed *Philosophy, Politics and Society* series
- Brings together leading scholars in philosophy, political science, economics, and social policy to address issues at the intersection of global justice and political theory
- A unique resource that brings together the cutting-edge scholarship in cross-border, globally important social and political issues
- Essential reading for advanced students, researchers, scholars, and policy makers interested in philosophy, political science, sociology, human rights and global justice



SERIES: PHILOSOPHY, POLITICS AND SOCIETY

SEPTEMBER 2021 344PP
978-1-119-11032-3 PB \$52.00 (Japan)
9781119110088 CL \$104.00 (Japan) Published, December 2015
Political Philosophy & Theory

セルフヘルプ

Sort Your Brain Out

Boost Your Performance, Manage Stress and Achieve More, 2nd Edition

JACK LEWIS

Every human being on this planet has the most incredible device in the known universe residing within their skull. Yet despite all of us having more or less the same make and model, the vast majority of users are completely unaware of its stunning capabilities; let alone its phenomenal ability to adapt. The human brain adapts to the demands of pretty much any environment.

But brains don't only adapt to accommodate good behaviours, they adapt to perform ANY regularly repeated behaviour without even thinking about it. Whether it is something useful like safely steering a car whilst your attention is consumed by an absorbing radio show, or not-so-helpful like helping yourself to that second slice of cake, your behaviour is largely controlled by a brain operating on autopilot, for better or for worse.

The aim of this book is to inspire people to consider the tremendous impact that neuroplasticity has on our behaviour, by giving people a clearer understanding of how their own brain works and by changing the common but false perception that you can't teach an old dog new tricks'.

SEPTEMBER 2021 216PP
978-0-85708-887-1 PB \$13.99 (Japan)
General Self-Help

社会学

After Lockdown

A Metamorphosis

BRUNO LATOUR & TRANSLATED BY JULIE ROSE

Ecoles des mines, Paris, France

READERSHIP: Students and scholars in sociology, anthropology, politics and environmental studies, and the social sciences and humanities generally; a broader audience interested in environmental and political issues; anyone interested in the Covid-19 pandemic and its long-term impact on our lives.

SEPTEMBER 2021 180PP
978-1-5095-5001-2 CL \$59.95 (Japan)
978-1-5095-5002-9 PB \$19.95 (Japan)
General Sociology



Critical Humanism

A Manifesto for the 21st Century

KEN PLUMMER

READERSHIP: upper-level students and above taking courses in social theory or studying humanism in humanities or the social sciences

SEPTEMBER 2021 224PP
978-1-5095-2794-6 CL \$69.95 (Japan)
978-1-5095-2795-3 PB \$24.95 (Japan)
Social Theory



The End of Love

A Sociology of Negative Relations

EVA ILLOUZ

The Hebrew University of Jerusalem

READERSHIP: Students and scholars in sociology and gender studies, as well as general readers interested in the changing nature of love and relationships.

SEPTEMBER 2021 320PP
978-1-5095-5025-8 PB \$19.95 (Japan)
Social Theory



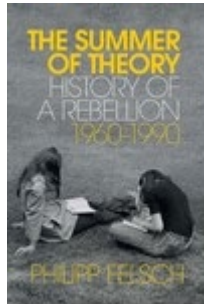
The Long Summer of Theory

History of a Revolt, 1960 - 1990

PHILIPP FELSCH & TRANSLATED BY TONY CRAWFORD

READERSHIP: General readers interested in ideas; students and scholars interested in social and political theory, critical theory and philosophy.

SEPTEMBER 2021 280PP
978-1-5095-3985-7 CL \$30.00 (Japan)
Social Theory



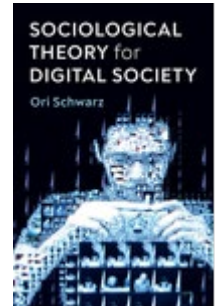
Sociological Theory for Digital Society

The Codes that Bind Us Together

ORI SCHWARZ

READERSHIP: upper-level undergraduate and graduate students of digital sociology and social theory

SEPTEMBER 2021 218PP
978-1-5095-4296-3 CL \$69.95 (Japan)
978-1-5095-4297-0 PB \$24.95 (Japan)
Social Theory



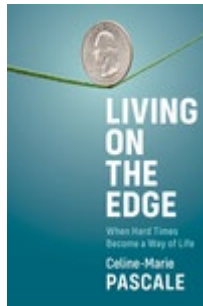
Living on the Edge

When Hard Times Become a Way of Life

CELINE-MARIE PASCALE

READERSHIP: students and scholars of sociology and general readers interested in issues of class, inequality and poverty

SEPTEMBER 2021 280PP
978-1-5095-4823-1 CL \$69.95 (Japan)
978-1-5095-4824-8 PB \$24.95 (Japan)
Class & Stratification



Gender and Social Movements

JO REGER

READERSHIP: upper-level undergraduates and above taking courses on gender and social movements especially in departments of sociology and gender studies

SERIES: SOCIAL MOVEMENTS

SEPTEMBER 2021 224PP
978-1-5095-4132-4 CL \$64.95 (Japan)
978-1-5095-4133-1 PB \$22.95 (Japan)
Gender & Sexuality



In AI We Trust

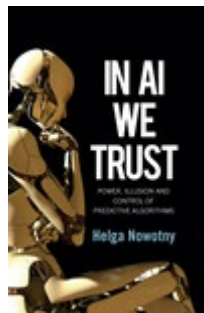
Power, Illusion and Control of Predictive Algorithms

HELGA NOWOTNY

Swiss Federal Institute of Technology (ETH), Zurich

READERSHIP: Students and scholars in the social sciences and in science and technology studies; interested general readers and policymakers, especially in the area of science policy.

SEPTEMBER 2021 200PP
978-1-5095-4881-1 CL \$25.00 (Japan)
Sociology of Science & Technology



Globalization

A Basic Text, 3rd Edition

GEORGE RITZER & PAUL DEAN

University of Maryland; Ohio Wesleyan University, USA

An accessible and comprehensive introduction to key concepts in globalization written by leading authors in the field

In the comprehensively revised Third Edition of *Globalization: A Basic Text*, distinguished researchers and authors George Ritzer and Paul Dean deliver an up-to-date introduction to major trends and topics related to the study of globalization. The book includes accessible and rigorous material on the key theories and major topics in globalization, as well as modern developments like the rise of populism and far-right political groups, Brexit, migration and backlash to it, trade negotiations, social media and the spread of misinformation, climate change, social justice issues, and COVID-19.



The new edition includes a greater focus on the structures of inequality that encourage or discourage global flows. Additionally, new examples and sources from Central and South America, Africa, and Asia are used to illustrate key concepts, and round out the international coverage of book. Throughout, the authors use clear and helpful metaphors including solids, liquids, gases, and flows to introduce and explain the complex nature of globalization in an engaging and understandable way.

Perfect for advanced undergraduates studying globalization across sociology, political science, geography, anthropology, and economics, *Globalization: A Basic Text, Third Edition* will also be essential reading for students taking courses in culture, economy and inequality, and migration taught from a global perspective.

SEPTEMBER 2021 640PP
978-1-119-52728-2 PB \$59.95 (Japan)
SOCIOLOGY OF GLOBALIZATION

Public Sociology

MICHAEL BURAWOY

READERSHIP: Sociology students at upper-undergraduate level and graduate students.

SEPTEMBER 2021 232PP
978-1-5095-1914-9 CL \$64.95 (Japan)
978-1-5095-1915-6 PB \$19.95 (Japan)
Sociology Special Topics



The Python Book

ROB MASTRODOMENICO

Discover the power of one of the fastest growing programming languages in the world with this insightful new resource

The Python Book delivers an essential introductory guide to learning Python for anyone who works with data but does not have experience in programming. The experienced data scientist, Python programmer, and author shows readers how to use Python for data analysis, exploration, cleaning, and wrangling. Readers will learn what in the Python language is important for data analysis and why and remain focused on those skills.

The book assists budding programmers to gradually increase their skills as they move through the book, always with an understanding of what they are covering and why it is useful.

The Python Book offers readers a thorough and comprehensive introduction to a language that is both simple enough to be ideal for a novice programmer, yet robust enough to be useful for those more experienced in the language. Used by major companies like Google, Facebook, Instagram, Spotify, and more, Python promises to remain central to the programming landscape for years to come.

Perfect for statisticians, computer scientists, software programmers, and practitioners working in private industry and medicine, *The Python Book* will also be of interest to students in any of the aforementioned fields. Because it assumes no programming experience or knowledge, the book is ideal for those who work with data but lack ability with Python.

SEPTEMBER 2021 288PP
978-1-119-57331-9 PB \$55.00 (Japan)
General & Introductory Statistics

Introduction to Linear Regression Analysis

6th Edition

DOUGLAS C. MONTGOMERY, UNITED STATES

Georgia Institute of Technology

A comprehensive and up-to-date introduction to the fundamentals of regression analysis

This set includes *Introduction to Linear Regression Analysis, Sixth Edition* and the *Solutions Manual* to accompany the text.

This book continues to present both the conventional and less common uses of linear regression in today's cutting-edge scientific research. The authors blend both theory and application to equip readers with an understanding of the basic principles needed to apply regression model-building techniques in various fields of study, including engineering, management, and the health sciences. *Introduction to Linear Regression Analysis* is an excellent book for statistics and engineering courses on regression at the upper-undergraduate and graduate levels. The book also serves as a valuable, robust resource for professionals in the fields of engineering, life and biological sciences, and the social sciences.



SEPTEMBER 2021 944PP
978-1-119-57871-0 CL \$160.00 (Japan)
REGRESSION ANALYSIS

Building a Modern Data Platform

Pursuit of Modern Big Data Systems

YUSUF AYTAS

Provides expert guidance and valuable insights on getting the most out of Big Data systems

An array of tools are currently available for managing and processing data--some are ready-to-go solutions that can be immediately deployed, while others require complex and time-intensive setups. With such a vast range of options, choosing the right tool to build a solution can be complicated, as can determining which tools work well with each other. *Building a Modern Data Platform* provides clear and authoritative guidance on the critical decisions necessary for successfully deploying, operating, and maintaining Big Data systems.

This highly practical guide helps readers understand how to process large amounts of data with well-known Linux tools and database solutions, use effective techniques to collect and manage data from multiple sources, transform data into meaningful business insights, and much more. Author Yusuf Aytas, a senior software engineer for online travel company TripAdvisor, discusses the design of the ideal Big Data platform: one that meets the needs of data analysts, data engineers, data scientists, software engineers, and a spectrum of other stakeholders across an organization. Detailed yet accessible chapters cover key topics such as stream data processing, data analytics, data science, data discovery, and data security.

Building a Modern Data Platform: Pursuit of Modern Big Data Systems is a must-have for all professionals working with Big Data, as well researchers and students in computer science and related fields.

SEPTEMBER 2021 UnknownPP
978-1-119-69092-4 CL \$135.00 (Japan)
Data Analysis

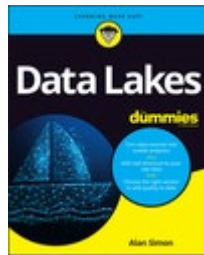


Data Lakes For Dummies

ALAN R. SIMON

Take a dive into data lakes

"Data lakes" is the latest buzz word in the world of data storage, management, and analysis. *Data Lakes For Dummies* decodes and demystifies the concept and helps you get a straightforward answer the question: "What exactly is a data lake and do I need one for my business?" Written for an audience of technology decision makers tasked with keeping up with the latest and greatest data options, this book provides the perfect introductory survey of these novel and growing features of the information landscape. It explains how they can help your business, what they can (and can't) achieve, and what you need to do to create the lake that best suits your particular needs.



With a minimum of jargon, prolific tech author and business intelligence consultant Alan Simon explains how data lakes differ from other data storage paradigms. Once you've got the background picture, he maps out ways you can add a data lake to your business systems; migrate existing information and switch on the fresh data supply; clean up the product; and open channels to the best intelligence software for to interpreting what you've stored.

- Understand and build data lake architecture
- Store, clean, and synchronize new and existing data
- Compare the best data lake vendors
- Structure raw data and produce usable analytics

Whatever your business, data lakes are going to form ever more prominent parts of the information universe every business should have access to. Dive into this book to start exploring the deep competitive advantage they make possible--and make sure your business isn't left standing on the shore.

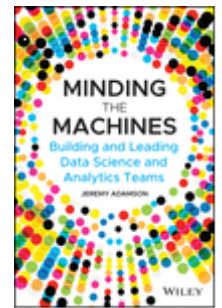
SEPTEMBER 2021 UnknownPP
978-1-119-78616-0 PB \$34.99 (Japan)
Data Analysis

Minding the Machines

Building and Leading Data Science and Analytics Teams

JEREMY ADAMSON

Learn and provide clear insights into how to structure and lead a successful analytics team. This is a deceptively challenging goal since there are no templates to work from. Establishing a project management office, information services, or human resources department is an understood process and does not vary greatly between organizations. Establishing an analytics team, by contrast, requires a significant up-front investment in understanding and contextualizing the initiative. Many organizations have attempted to use operating models and templates from other functions, in particular IT and operations research. This fundamental misunderstanding of where analytics fits within an organization has led to visible failures and has set back the analytical maturity of many organizations. Business leaders need to hire or develop data-centric talent who are able to step back from analysis and project management to view their work through a lens of value-creation. Understand how organizations and practitioners need to structure, build, and lead a successful analytics team -- to bridge the gap between business leaders and the analytical function. The analytics job market is very frothy, and the talent pool has swelled in recent years with engineers, actuaries, and scientists up-skilling and re-branding themselves as data scientists. This influx of highly technical specialists with limited leadership experience has had negative consequences for the practice as a whole. *Minding the Machines* is organized in three key pillars: Strategy, Process, and People. Analytical practitioners want to read this book because career progression opportunities for analytical professionals are very limited. Despite reaching senior technical roles they often report to a business focused manager who understands little about the analytical function. Practitioners seek leadership opportunities, but do not have the tools to move into leadership roles or to be successful in them. Business leaders with foundational analytical abilities want to read this book because what they may have learned from other business units is at best not applicable to analytics teams, and at worst counterproductive. There needs to be a resource specific to this unique practice.



SEPTEMBER 2021 240PP
978-1-119-78532-3 PB \$40.00 (Japan)
Data Analysis

テストプレップ

SQL for Data Scientists

A Beginner's Guide for Building Datasets for Analysis

RENEE M TEATE

Jump-start your career as a data scientist--learn to develop datasets for exploration, analysis, and machine learning

SQL for Data Scientists: A Beginner's Guide for Building Datasets for Analysis is a resource that's dedicated to the Structured Query Language (SQL) and dataset design skills that data scientists use most. Aspiring data scientists will learn how to how to construct datasets for exploration, analysis, and machine learning. You can also discover how to approach query design and develop SQL code to extract data insights while avoiding common pitfalls.



You may be one of many people who are entering the field of Data Science from a range of professions and educational backgrounds, such as business analytics, social science, physics, economics, and computer science. Like many of them, you may have conducted analyses using spreadsheets as data sources, but never retrieved and engineered datasets from a relational database using SQL, which is a programming language designed for managing databases and extracting data.

This guide for data scientists differs from other instructional guides on the subject. It doesn't cover SQL broadly. Instead, you'll learn the subset of SQL skills that data analysts and data scientists use frequently. You'll also gain practical advice and direction on "how to think about constructing your dataset."

In this book, author Renee Teate shares knowledge gained during a 15-year career working with data, in roles ranging from database developer to data analyst to data scientist. She guides you through SQL code and dataset design concepts from an industry practitioner's perspective, moving your data scientist career forward!

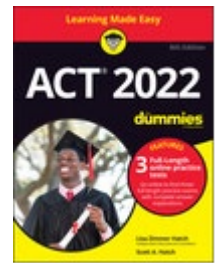
SEPTEMBER 2021 UnknownPP
978-1-119-66936-4 PB \$50.00 (Japan)
Data Analysis

ACT 2022 For Dummies with Online Practice

LISA ZIMMER HATCH, GOLDEN & SCOTT A. HATCH, GOLDEN

Get your ACT together with this smart study guide!

For over 20 years, the fun-and-friendly Dummies ACT guides have helped college hopefuls like you crush it on test day and get into the schools of their dreams! *ACT 2022 For Dummies* makes it easy to pump up your English, math, science, and readings scores, and to write circles around the graders, if you choose to take the optional writing test. You're about to launch into the rest of your life! With book's straight-to-the-point explanations, practice questions, and full-length tests--and a side of laughter, courtesy of the teen-approved Dummies style--you can ace the ACT and start your college career with confidence.



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- Hit the books, Dummies style, with clear explanations of what's on the ACT and tips for smarter studying
- Practice till you're ready with flash cards, online practice tests, and drills on all the subject areas
- Understand the college admissions process and make sure your application stands out

Begin your post-high school journey on the right foot with *ACT 2022 For Dummies*!

SEPTEMBER 2021 544PP
978-1-119-81152-7 PB \$19.99 (Japan)
SAT, ACT PREP

CEH v11 Certified Ethical Hacker Study Guide + Practice Tests Set

RIC MESSIER, UNITED STATES

Master CEH v11 and identify your weak spots

As protecting information continues to be a growing concern for today's businesses, certifications in IT security have become highly desirable, even as the number of certifications has grown. Now you can set yourself apart with the Certified Ethical Hacker (CEH v11) certification. *CEH v11 Certified Ethical Hacker Study Guide and Practice Tests Set* provides you with all of the technical review you need of CEH skills PLUS SEVEN practice tests to prove your readiness for exam day.



The *CEH v11 Certified Ethical Hacker Study Guide* offers a comprehensive overview of the CEH certification requirements using concise and easy-to-follow instructions. Chapters are organized by exam objective, with a handy section that maps each objective to its corresponding chapter, so you can keep track of your progress. The text provides thorough coverage of all topics, along with challenging chapter review questions and Exam Essentials, a key feature that identifies critical study areas. Subjects include common attack practices like reconnaissance and scanning. Also covered are topics like intrusion detection, DoS attacks, buffer overflows, wireless attacks, mobile attacks, Internet of Things (IoT) and more. This study guide goes beyond test prep, providing practical hands-on exercises to reinforce vital skills and real-world scenarios that put what you've learned into the context of actual job roles.

CEH: Certified Ethical Hacker Version 11 Practice Tests are the ideal preparation for this high-stakes exam. FIVE MORE complete, unique practice tests are designed to help you identify weak spots in your understanding, so you can direct your preparation efforts efficiently and gain the confidence--and skills--you need to pass. These tests cover all section sections of the exam blueprint, allowing you to test your knowledge of Background, Analysis/Assessment, Security, Tools/Systems/Programs, Procedures/Methodology, Regulation/Policy, and Ethics.

SEPTEMBER 2021 UnknownPP
978-1-119-82539-5 PB \$75.00 (Japan)
Certification (MSCE, Novell, etc.)

Veterinary Clinical Skills

EDITOR EMMA K. READ, EDITOR MATT R. READ & EDITOR SARAH BAILLIE

University of Calgary, Calgary, Alberta, Canada

Provides instructors and students with clear guidance on best practices for clinical skills education

Veterinary Clinical Skills provides practical guidance on learning, teaching, and assessing essential clinical skills, techniques, and procedures in both educational and workplace environments. Thorough yet concise, this evidence-based resource features sample assessments, simple models for use in teaching, and numerous examples demonstrating the real-world application of key principles and evidence-based approaches.

Organized into nine chapters, the text explains what constitutes a clinical skill, explains the core clinical skills in veterinary education and how these skills are taught and practiced, describes assessment methods and preparation strategies, and more. Contributions from expert authors emphasize best practices while providing insights into the clinical skills that are needed to succeed in veterinary practice. Presenting well-defined guidelines for the best way to acquire and assess veterinary skills, this much-needed resource:

- Describes how to design and implement a clinical skills curriculum
- Identifies a range of skills vital to successful clinical practice
- Provides advice on how to use peer teaching and other available resources
- Covers veterinary OSCE (Objective Structured Clinical Examination) topics, including gowning and gloving, canine physical examination, and anesthetic machine setup and leak testing
- Includes sample models for endotracheal intubation, dental scaling, silicone skin suturing, surgical prep, and others

Emphasizing the importance of clinical skills in both veterinary curricula and in practice, *Veterinary Clinical Skills* is a valuable reference and guide for veterinary school and continuing education instructors and learners of all experience levels.

SEPTEMBER 2021 UnknownPP
978-1-119-54005-2 PB \$99.99 (Japan)
General & Introductory Veterinary Medicine

The Veterinary Dental Patient: A Multidisciplinary Approach

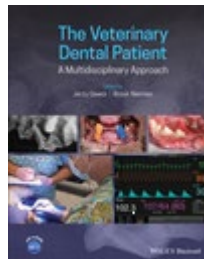
JERZY GAWOR & BROOK A. NIEMIEC

American Veterinary Dental College, California

Provides an interdisciplinary approach to the veterinary dental patient and offers guidance on all aspects of integrating dentistry into veterinary general practice

The Veterinary Dental Patient: A Multidisciplinary Approach helps veterinarians understand the

dental aspects of every canine and feline patient and shows them how to effectively manage their oral health. It also provides guidance to the rest of the veterinary team so they can offer a coordinated approach when recommending and performing veterinary dentistry as a regular part of general practice.



Edited by two prominent veterinary dentists who are Board Certified in both Europe and the United States, the text includes the latest information on safe anesthetic and monitoring protocols, accurate diagnosis and management, and referring patients to specialists. Chapters cover: establishing a dental presence in general veterinary practice; nutrition, oral health, and feeding dental patients; local, regional, and systemic complications of dental diseases; pain management; ophthalmic considerations; common situations for malpractice and mistakes; oral and maxillofacial surgery; extraction techniques and equipment; drug dosages and more. The book also offers several helpful appendixes.

The Veterinary Dental Patient: A Multidisciplinary Approach is an essential book for all vets in general small animal practice as well as the wider veterinary team, including managers, veterinary nurses and technicians, and administrative staff.

SEPTEMBER 2021 448PP
978-1-118-97473-5 CL \$100.00 (Japan)
Veterinary Dentistry

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