

JAPAN PREVIEW

October 2021



WILEY

PICK OF THE MONTH ~ 今月のお勧めタイトル**Spectroscopic Techniques for Polymer Characterization:
Methods, Instrumentation, Applications**

高分子の特性評価のための分光学的手法

EDITOR YUKIHIRO OZAKI & EDITOR HARUMI SATO

Kwansei Gakuin University, Japan

→P17

Vaccines For Dummies

MEGAN COFFEE, NEW YORK CITY, UNITED STATES & SHARON PERKINS, MEDORD, UNITED STATES

→P60

Hybrid Perovskite Solar Cells: Characteristics and Operation

ハイブリッドペロブスカイト太陽電池

EDITOR HIROYUKI FUJIWARA

National Institute of Advanced Industrial Science & Technology, Tsukuba, Japan

→P62

The Encyclopedia of Philosophy of Religion

宗教哲学百科事典

EDITOR STEWART GOETZ & EDITOR CHARLES TALIAFERRO

Ursinus College in Pennsylvania, USA; St. Olaf College

→P66

Statistical Methods for Reliability Data, 2nd Edition

信頼性データの統計的手法

WILLIAM Q. MEEKER, LUIS A. ESCOBAR & FRANCIS G. PASCUAL

→P74

—

JAPAN PREVIEW

- ◆ 毎月 1 日発行
- ◆ 出版予定タイトルを 3 ヶ月前に発行。
(例 2019 年 10 月号 7 月初めに発行。2019 年 10 月出版予定タイトルをカバー、全予定価格)
- ◆ キー・シンボル **TEXT** …… テキスト・タイトル
SD …… ショート・ディスカウント・タイトル
- ◆ ワイリー・ジャパンのウェブ・サイト www.wiley.co.jp にてこのプレビューをご覧ください。
- ◆ ご発注は従来通り英国の John Wiley & Sons Ltd.にお願いします。

Megan Nally (Ms.), Customer Service
John Wiley & Sons Ltd.
European Distribution Centre
New Era Estate
Oldlands Way, Bognor Regis
West Sussex, PO22 9NQ
UK

T: +44 (0) 01243 843291
F: +44 (0) 01243 843303
mnally@wiley.com

ワイリー社及びワイリー・タイトルの情報は www.wileyeurope.com でご覧下さい。
Book・DATA ワイリー社の全出版物のデータは Book DATA Ltd.のデータ・ベースに保持されています。
このサービスに関するお問い合わせは下記に願います。

Book Data Limited
Globe House, 1 Chertsey Road, Twickenham, TW1 ILR, UK

Tel: 44 208 843 8600
Fax: 44 208 843 8744
www.bookdata.co.uk

その他書籍に関するお問い合わせ・ご質問は、ワイリー・ジャパンまでご連絡ください。

〒112-0002 東京都文京区小石川 1-28-1 小石川桜ビル 4F
Tel 03-3830-1232 Fax: 03-5689-7276 E-mail: marketing@wiley.co.jp

Table Of Contents

会計学	Accounting Special Topics.....	8
人類学	Social & Cultural Anthropology	8
建築学	Building Design	9
	Housing	10
ビジネス	Business Technology	10
	Management / Leadership	11
	Management / Teams	13
	Corporate Governance.....	13
	Project Management	14
	Training & Human Resource Development / Diversity.....	14
	Business & Society	14
土木工学	Surveying	15
	Construction Management	15
	Tunnel Construction	16
化学	Spectroscopy.....	17
	Mass Spectrometry	18
	Industrial Chemistry.....	18
	Catalysis.....	19
	Drug Formulation & Delivery	19
	Toxicology	20
	Organic Chemistry	20
	Methods - Synthesis & Techniques	21
	Electrochemistry	21
コミュニケーション	Journalism	22
コンピュータサイエンス	Computer Hardware (general).....	22
	Programming & Software Development.....	23
	Database & Data Warehousing Technologies	23
	Data Mining & Knowledge Discovery	24
	Artificial Intelligence	24

	Computer Security & Cryptography	26
	Digital Culture & the Information Age	27
文化研究	Ancient & Classical Studies	228
	Race & Ethnicity Studies	28
	Film Studies	29
歯学	General Dentistry	29
	Periodontology	30
	Oral & Maxillofacial Surgery	30
	Oral Pathology	30
	Dental Technology & Materials Science	31
	Implant Dentistry	31
	Orthodontics	32
経済学	Political Economics	32
教育	K-12 General	33
	Teacher Education (K-12)	34
	Teaching & Learning (Higher Education)	34
	Education Special Topics	35
電気電子工学	Communication Technology	35
	Antennas & Propagation	36
	Communication System Security	37
	Mobile & Wireless Communications	38
	Communication Technology - Networks	38
	Control Systems Technology	39
	Systems Engineering & Management	40
	Sensors, Instrumentation & Measurement	41
	Power Electronics	41
	Signal Processing	42
	Image and Video Processing	42
エネルギー	Renewable Energy	43
	Solar Energy & Photovoltaics	43
	Smart Grid	44

環境科学	Environmental Economics & Politics	44
地球科学	General & Introductory Earth Sciences	45
	Structural Geology & Tectonics	45
	GIS & Remote Sensing	46
	Fluvial Hydrology & Limnology	47
ファイナンス/インベストメント	General Finance & Investments	48
	Money & Banking	49
	Investments & Securities	49
	Finance & Investments Special Topics	50
公衆衛生	Occupational Therapy	51
	Health & Health Care Special Topics	52
ホスピタリティ	Catering & Events Management	52
ライフスタイル	Cooking	53
	Technical & How-To (general)	54
	Home Improvement	54
ライフサイエンス	Marine Ecology	55
	Genetics	55
	Phycology	56
	Plant Physiology	56
数学	Complex & Functional Analysis	57
	Applied Mathematics in Engineering	57
	Differential Equations	58
	Numerical Methods	58
	Mathematical Modeling	59
メディカル・サイエンス	Emergency Medicine & Trauma	59
	General & Internal Medicine	60
	Medical Education	60
機械工学	Aeronautic & Aerospace Engineering	61
材料科学	Electronic Materials	61
	Optical and Non-Linear Optical Materials	62

	Materials for Energy Systems	62
ナノテクノロジー	Nanobiotechnology	63
ナーシング	General Clinical Nursing	63
物理学	Astronomy & Astrophysics	64
	Thermal Physics & Statistical Mechanics	64
哲学	Continental Philosophy	65
	Ethics	65
	Philosophy of Mind	66
	Philosophy of Religion	66
政治学	Global Politics	67
	Political Philosophy & Theory	67
心理学	Organizational & Industrial Psychology	69
宗教	Islam	69
セルフヘルプ	General Self-Help	70
	Motivational	70
社会学	General Sociology	71
	Sociology of Science & Technology	71
統計学	Probability & Mathematical Statistics	72
	Experimental Design	72
	Environmental Statistics & Environmetrics	73
	Data Analysis	73
	Quality, Productivity & Reliability	74
獣医学	Veterinary Surgery, Orthopedics & Trauma	75

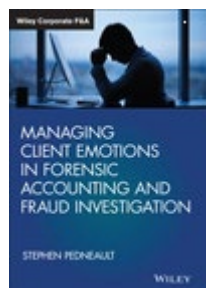
会計学

Managing Client Emotions in Forensic Accounting and Fraud Investigation

STEPHEN PEDNEAULT

Manage client emotions in forensic accounting and fraud investigations

While many resources exist that outline the primary functional aspects of conducting a forensic accounting or fraud investigation, this book is the first of its kind in addressing the significance of client emotions during investigations and how important the management of those emotions is to the investigation as a whole. Forensic accounting expert Stephen Pedneault has nearly 30 years of experience conducting such fraud investigations, and has become an expert in this form of holistic engagement management. In this comprehensive resource, Pedneault shares his real-world experiences to help the reader understand exactly what role client emotions can play in a fraud investigation, and how to acknowledge and address the emotions of all parties right from the start.



Included in the book are pragmatic strategies for managing emotions throughout an engagement, starting with the initial client meeting. Readers will also learn how to develop their own personal approach to managing individuals' emotions throughout an investigation, which has proven to be much more effective than ignoring or underestimating the role that emotions can play.

For accountants, auditors, fraud investigators, and others in the field, this complete, groundbreaking resource is the quintessential guide to managing client emotions in forensic accounting and fraud investigations.

SERIES: WILEY CORPORATE F&A

OCTOBER 2021 208PP
978-1-119-47149-3 CL \$49.95 (Japan)
Accounting Special Topics

人類学

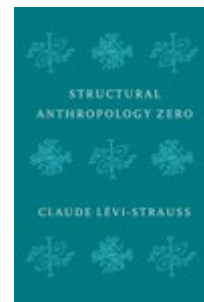
Structural Anthropology Zero

CLAUDE LEVI-STRAUSS, TRANSLATED BY NINON VINSONNEAU &
TRANSLATED BY JONATHAN MAGIDOFF

College de France

READERSHIP: Students and scholars in anthropology, social theory, linguistics, sociology and the humanities generally, as well as followers anyone interested in the work of Claude Lévi-Strauss

OCTOBER 2021 300PP
978-1-5095-4497-4 CL \$69.95 (Japan)
978-1-5095-4498-1 PB \$26.95 (Japan)
Social & Cultural Anthropology



建築学

Building Codes Illustrated

A Guide to Understanding the 2021 International Building Code, 7th Edition

FRANCIS D. K. CHING, SEATTLE & STEVEN R. WINKEL, SAN FRANCISCO

Stay informed of the latest updates to the International Building Code with the leading visual reference

In the newly revised Seventh Edition of *Building Codes Illustrated: A Guide to Understanding the 2021 International Building Code*, architectural drawing expert Francis D.K. Ching and renowned architect Steven R. Winkel deliver a beautifully illustrated and intuitively written handbook for the 2021 International Building Code (IBC). The authors provide brand new chapters on plumbing fixture counts, elevators, special construction, and existing buildings while updating the remainder of the material to align with recent changes to the IBC.

Easy to navigate and perfect as a quick-reference guide to the IBC, *Building Codes Illustrated* is a valuable visual resource for emerging professionals.

The book also includes:

- Thorough introductions to navigating the Code, use and occupancy, special uses and occupancies, and building heights and areas
- Full explorations of the types of construction, fire resistive construction, interior finishes, fire-protection systems, and means of egress
- Practical discussions of accessibility, interior environment, exterior walls, roof assemblies, and structural provisions
- In-depth examinations of special inspections and tests, soils and foundations, building materials and systems, and elevators

Perfect for students of architecture, interior design, construction, and engineering, the latest edition of *Building Codes Illustrated* is also ideal for professionals in these fields seeking an up-to-date reference on the 2021 International Building Code.

SERIES: BUILDING CODES ILLUSTRATED

OCTOBER 2021 UnknownPP
978-1-119-77240-8 PB \$67.50 (Japan)
BUILDING DESIGN

**Production Urbanism**

The Meta Industrial City

GUEST EDITOR DONGWOO YIM & GUEST EDITOR RAFAEL LUNA

The Industrial Revolution caused a paradigm shift from an agrarian economy to a manufacturing economy, giving birth to the industrial city. “City” became synonymous with a concentration of factories causing unfiltered scenes between centres of production and urban dwellings. The corrupted image of the city ultimately led to the displacement and separation of production away from residential zones in the 20th century. However, new innovative manufacturing technologies are allowing a coexistence between factories and dwellings through hybrid typologies that blend production back into the urban fabric. This AD issue discusses the implications of the re-emergence of production as an architectural and urban agenda through hybrid models that engage a new socioeconomic shift. Given the contemporary circumstances of a global pandemic affecting global supply chains, it is necessary to deliver a vision for a new productive urbanism that allows autonomous circular economies to flourish. Our 21st-century cities have an obligation to explore a new industrial revolution of shared economies that optimise the use of the legacy systems, infrastructure and building stock. Yet it is ultimately up to architecture to take arms in delivering new typologies.



Contributors: Frank Barkow, Michele Bonino and Maria Paola Repellino, Kristiaan Borret, Vicente Guallart, Tali Hatuka, Doojin Hwang, Yerin Kang and Chihoon Lee, Kengo Kuma, Wesley Leeman, Scott Lloyd and Alexis Kalagas, Winy Maas, DK Osseo-Asare, Marina Otero Verzier, Nina Rappaport, and Shohei Shigematsu.

Featured architects: Barkow Leibinger, DJH Architects, Goldsmith, Kengo Kuma & Associates, MVRDV, OMA, and TEN.

SERIES: ARCHITECTURAL DESIGN

OCTOBER 2021 136PP
978-1-119-71770-6 PB \$41.64 (Japan)
Building Design

ビジネス

Future Urban Habitation

Transdisciplinary Perspectives, Conceptions, and Designs

OLIVER HECKMANN, GERMANY

University of Darmstadt, Germany

Presents forward-looking concepts, innovative research, and transdisciplinary perspectives for developing strategies for future urban habitation



Around the globe, urban populations are growing at an unprecedented rate, in particular in Asia and Africa. In view of pressing social and environmental challenges it is essential to reimagine current design strategies to build affordable, sustainable, and inclusive communities that can respond to future demographic dynamics, new social practices, and the consequences of climate change. *Future Urban Habitation* presents an integrative, transdisciplinary approach for developing long-term strategies for urban housing at a different scales.

With focus on the rapidly growing cities of Asia, and urban processes in Europe and North-America this volume offers perspectives from both researchers and practitioners involved in multiple aspects of urban habitation. The authors address a range of challenges to urban habitation with four intersecting thematic frameworks: Inclusive Urbanism, High-Dense Typologies for Building Community, Adaptable and Responsive Habitation, and New Tools and Approaches.

Throughout the text, readers are presented with innovative design ideas from different fields, new concepts for social practices and sustainable housing policies, recent research on urban housing, and more.

Future Urban Habitation is an invaluable resource for designers from various fields including architecture, urban planning, and social design, for researchers from social science and design fields, and for policymakers, and other practitioners working on the provision of housing and the facilitation of social services in urban environments.

OCTOBER 2021 288PP
978-1-119-73485-7 CL \$120.00 (Japan)
Housing

Digital Customer Service

Transforming Customer Experience for An On-Screen World

RICK DELISI & DAN MICHAELI

Digital Customer Service is the new standard for creating a 5-star customer experience



As much as technology has improved our lives, for many people customer service experiences still remain unnecessarily frustrating. But the advent of Digital Customer Service (DCS) promises to make these interactions seamless and effortless by creating experiences that occur entirely on a customer's own screen, even in situations where it is preferable to speak to an agent.

This book traces the evolution of customer service--as well as the evolution of customer expectations and the underlying psychology that drives customer behavior - from the days of the first call centers in the 1980s all the way to today's digital world.

Written for Customer Service and Customer Experience leaders as well as C-suite executives (CEOs, CFOs, CIOs), this book helps business leaders balance three critical priorities:

- Creating an excellent experience for customers that increases customer loyalty and profitability
- Driving down the cost of Customer Service/Support interactions, while increasing revenue through Sales interactions
- Moving quickly toward the goal of "digital transformation"

We have discovered--in our research and our first-hand experience--that when companies commit to achieving true Digital Customer Service, they can make significant progress toward all three of these goals at once. This book provides the roadmap for how your company can get there. And when you do, who wins? EVERYONE.

OCTOBER 2021 256PP
978-1-119-84190-6 CL \$30.00 (Japan)
Business Technology

Fail Fast, Learn Faster

Lessons in Data-Driven Leadership in an Age of Disruption, Big Data, and AI

RANDY BEAN, BOSTON

Explore why -- now more than ever -- the world is in a race to become data-driven, and how you can learn from examples of data-driven leadership in an Age of Disruption, Big Data, and AI

In *Fail Fast, Learn Faster: Lessons in Data-Driven*

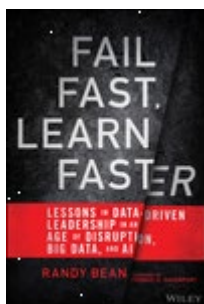
Leadership in an Age of Disruption, Big Data, and AI, Fortune 1000 strategic advisor, noted author, and distinguished thought leader Randy Bean tells the story of the rise of Big Data and its business impact -- its disruptive power, the cultural challenges to becoming data-driven, the importance of data ethics, and the future of data-driven AI.

The book looks at the impact of Big Data during a period of explosive information growth, technology advancement, emergence of the Internet and social media, and challenges to accepted notions of data, science, and facts, and asks what it means to become "data-driven."

Fail Fast, Learn Faster includes discussions of:

- The emergence of Big Data and why organizations must become data-driven to survive
- Why becoming data-driven forces companies to "think different" about their business
- The state of data in the corporate world today, and the principal challenges
- Why companies must develop a true "data culture" if they expect to change
- Examples of companies that are demonstrating data-driven leadership and what we can learn from them

Written for CEOs and Corporate Board Directors, data professional and practitioners at all organizational levels, university executive programs and students entering the data profession, and general readers seeking to understand the Information Age and why data, science, and facts matter in the world in which we live, *Fail Fast, Learn Faster* is essential reading that delivers an urgent message for the business leaders of today and of the future.



Epidemic Leadership

How to Lead Infectiously in the Era of Big Problems

LARRY MCEVOY

A science-based leadership framework for building capacity and overcoming exhaustion in today's complex world

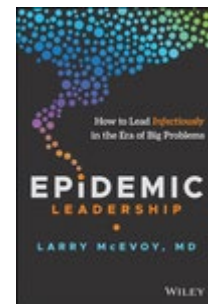
Epidemic Leadership introduces an adaptive leadership approach designed to help you (and your followers) thrive and influence in today's complex age. This book provides a how-to methodology for simply and practically putting the principles of epidemic phenomena into successful practice. By understanding their function in adaptive systems and applying their organizing principles to daily work, you can lead more effectively for greater results, more agile responsiveness, and deeper vitality.

Epidemic

Leadership synthesizes science, stories of leadership experience, and practical technique to shape the challenge of "leading in complex environments" into a compelling field guide for leaders who seek to improve results and contribute to a healthier world. You will be inspired, challenged, and practically equipped to begin a journey toward exponential positive impact in this pivotal era.

- Discover a novel leadership approach that's particularly applicable to tackling the big problems in your workplace and world
- Realize better performance and enhance your ability to create results sooner and more sustainably, across a wider array of processes and topics
- Restore vitality in yourself and those you lead, for renewed hope, enthusiasm and engagement

Companies and institutions will benefit from the deep capacities *Epidemic Leadership* builds. For leaders who struggle to find enough time and energy to create the impact they seek, this book offers a unique path for our challenging times.



OCTOBER 2021 256PP
978-1-119-78745-7 CL \$25.00 (Japan)
Management / Leadership

OCTOBER 2021 288PP
978-1-119-80622-6 CL \$27.00 (Japan)
Business Technology

The Leader Lab

TANIA LUNA & LEEANN RENNINGER

What if you could become a great manager, leader, and communicator faster?

The Leader Lab is a high-speed leadership intensive, equipping managers with the Swiss Army Knife of skills that help you handle the toughest situations that come your way.



Through painstaking research and training over 200,000 managers, authors Tania Luna and LeeAnn Renninger, PhD (co-CEOs of LifeLabs Learning) identified the most important skills that distinguish great managers from average. Most importantly, they've discovered how to help people rapidly develop these core skills. The result? You quickly achieve extraordinary team performance and a culture of engagement, fulfillment, and belonging.

Too often, folks are promoted without any training for the countless crucial responsibilities of the modern manager: being part coach, part player, part therapist, part role model. *The Leader Lab* serves as your definitive guide to what it means to be a great manager today -- and how to become a great leader faster. This book is based on LifeLabs Learning's wildly successful workshop series. It combines research, tools, and the playful, fluff-free style that's made LifeLabs the go-to professional development resource for over 1,000 innovative companies around the world.

This interactive, accessible, and brain-friendly resource will help you and your team ramp up and reach the tipping point of managerial greatness fast.

OCTOBER 2021 320PP
978-1-119-79331-1 CL \$28.00 (Japan)
Management / Leadership

The Physician's Roadmap

KAREN NICHOLS

Physicians are thrust into many leadership situations and are well suited for these roles. However, they are not trained for this function, so often lack the basic skills that would lead to more success in these roles. Fortunately, there is a large body of knowledge on leadership to assist. Most leadership books are massive tomes. Most leadership courses are several days in length. Neither resource is suited to the needs of the busy physician looking for a quick guide in a specific situation. *The Physician's Roadmap* is a concise guide for the busy physician leader. It covers the basic leadership essentials every physician needs to move from being a highly motivated novice leader to evolve into an effective, skilled, and productive leader. Each chapter explains the must-know points, provides sample questions and exercises, and includes a bibliography of the pertinent literature for further study.

OCTOBER 2021 240PP
978-1-119-81754-3 CL \$28.00 (Japan)
Management / Leadership

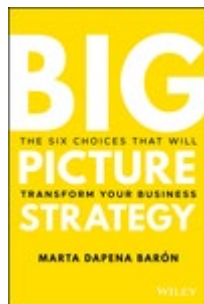
Focused Choices Limitless Growth

How Constraining and Integrating Strategic Decisions Leads to Growth

MARTA DAPENA-BARON

The traditional view of business strategy is that business growth requires finding wide-open market spaces, developing diverse breakthrough innovations, and achieving many "must-wins." The problem with the "more-is-better" view of strategy is that it generates complexity and scatters focus. We struggle to stretch our teams and our resources to address a long list of priorities and ultimately end up with little differentiation for our brands. Our tools are to blame for our lack of focus: strategy frameworks in use today offer comprehensive categorizations of topics, but they lack a systematic approach to drive choice.

Focused Choices, Limitless Growth offers an integrated decision-based strategy framework that shows how constraining choice aligns teams, facilitates learning, and creates sustainable growth. The book addresses six fundamental questions that face organizations and explores how companies develop winning strategy by making systematic choices. Research and practice with some of the most successful companies in the world proves that the best commercial plans emerge by tightly constraining and connecting strategic choices. This book explains how to apply the decision-based framework of integrated choice to any business or goal-oriented institution.



OCTOBER 2021 288PP
978-1-119-71206-0 CL \$25.00 (Japan)
Management / Teams

Understanding and Managing Strategic Governance

WEI SHI & ROBERT E. HOSKISSON

This book focuses on strategic governance, which pertains to the influence of governance actors (those whose interests are directly or indirectly tied to firms and therefore motivated to influence firm strategic decisions, e.g., the board of directors, institutional investors, and securities analysts) on important strategic decisions. It will focus on two key issues: . First, the authors examine the influence of governance actors on strategic decisions and the quality of such decisions. They give special attention to unintended consequences of governance actors on strategic decisions and complement their analyses with unique datasets that they have collected over the years. Second, they provide managerial guidance on leveraging governance actors and managing conflicting interests to achieve sustainable competitive advantages. The interests of governance actors are often not aligned with each other in the short term, and governance actors may impose conflicting demands on corporate executives. Therefore, it is important for executives to understand and manage such conflicting demands and avoid strategic pitfalls that can harm firms' long-term competitiveness. The first two chapters provide an overview of strategic governance and introduces internal and external governance actors around the globe. The authors then organize the following chapters along the influences of internal and external governance actors on corporate strategy, competitive strategy, innovation strategy and corporate entrepreneurship, global strategy, stakeholder strategy, and nonmarket strategy. They also discuss managerial guidance on how to leverage governance actors to make successful strategic decisions. The last chapter concludes the book by discussing emerging new trends, future research opportunities, and implications for managers, and regulatory and policy implications.



OCTOBER 2021 320PP
978-1-119-79825-5 CL \$49.95 (Japan)
Corporate Governance

Hiring for Diversity

The Guide to Building an Inclusive and Equitable Organization

ARTHUR WOODS, SUSANNA THARAKAN & FOREWORD BY JENNIFER BROWN

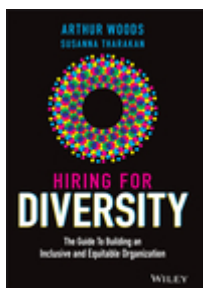
You want to build a more diverse organization, but how will you shift your hiring practices? Learn the playbook from the world's top talent executives and the global leader in diversity recruiting.

Hiring for Diversity: The Guide to Building an Inclusive and Equitable Organization brings together the most cutting-edge practices for implementing a diversity hiring strategy that leaves your organization with a comprehensive view and an actionable plan.

Using the author's research-backed Equal Hiring Index[®] and work with hundreds of leading employers, the book offers readers the most actionable examples of the policies and practices that inclusive hiring leaders employ today. You'll learn:

- How to take stock of your existing hiring and retention practices to identify the most urgent and high impact opportunities
- Where to enact tactical changes to your hiring practices and policies that will reduce bias and improve accessibility
- How to develop a comprehensive diversity sourcing strategy by building a holistic understanding of underrepresented communities
- How to shift the mindset and behavior of people in your organization to collectively advance your diversity hiring efforts
- How to measure your progress and report your impact in your diversity hiring

Perfect for human resources professionals, managers, executives, and board members, and existing and aspiring leaders passionate about diversity, *Hiring for Diversity* will also earn a prominent spot on the bookshelves of anyone interested in making the company they work in more inclusive, fair, and equitable.



OCTOBER 2021 304PP
978-1-119-80090-3 CL \$35.00 (Japan)
Training & Human Resource Development / Diversity

Business Outcome Selling Strategies

How Next Gen B2B Sales Organizations Accelerate Sales Productivity, Operationalize Hyper-Growth Strategies, Lock Out Competitors, and Expand Customer Relationships

JEB BLOUNT, UNITED STATES & JASON EATMON

As the speed of business continues to accelerate, B2B enterprises and sales organizations are being disintermediated and disrupted by digital transformation and artificial intelligence.

In *Business Outcome Selling Strategies* Jeb Blount, one of the most celebrated sales strategists of our generation, and business transformation guru Jason Eatmon, give you the secrets for how next generation B2B sales organizations are accelerating sales productivity, operationalizing hyper-growth strategies, and locking out competitors.



Business Outcome Selling Strategies (BOSS) isn't a typical sales book. Inside, you'll find a powerful field guide, proven processes, and complete system that connects the dots between sales, marketing, business development, operations, service delivery, account management, and customer success.

Leveraging these strategies, tactics, and tools, your organization will transform into a well-oiled, cohesive growth machine that delivers a legendary buying experience and unassailable competitive differentiation.

BOSS is ground-breaking. It shatters old-school paradigms and forces readers to come face to face with the cold, hard truth about what it really takes to transform, shift into hyper-growth, and win the race for relevance.

SERIES: JEB BLOUNT

OCTOBER 2021 UnknownPP
978-1-119-58488-9 CL \$27.00 (Japan)
Business & Society

土木工学

Evidence and Procedures for Boundary Location

7th Edition

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

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

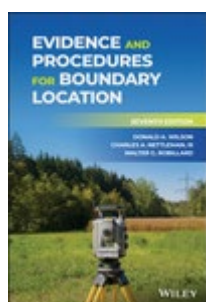
EVIDENCE AND PROCEDURES FOR BOUNDARY LOCATION**THE UPDATED CLASSIC GUIDE TO LAND BOUNDARY LAW AND EVIDENCE DISCOVERY**

The revised Seventh Edition of *Evidence and Procedures for Boundary Location* serves as the seminal guide to the principles and concepts of land boundary law and evidence for accurately determining boundaries. Written by a team of noted authorities on the subject, the book presents the proven methods for the rediscovery of real property boundaries. Grounded in historical documentation, field investigation, and recreation of the original surveying methodology, the book contains the appropriate and legally defensible tools needed for the re-establishment of land boundaries.

Thoroughly revised and updated, the classic text contains fresh examples of case law, the most recent developments in forensic investigation in the discovery of obscured evidence, as well as a new chapter on emerging technology used in boundary surveying.

Written for practicing surveyors and students, the updated Seventh Edition of *Evidence and Procedures for Boundary Location* continues to offer an authoritative guide to the principles, laws, and latest developments in the field.

OCTOBER 2021 720PP
978-1-119-71939-7 CL \$156.00 (Japan)
SURVEYING

**An Effective Strategy for Safe Design in Engineering and Construction**

DAVID ENGLAND & DR ANDY PAINTING

This book has three main aims:

- To improve the understanding and implementation of the Construction (Design and Management) Regulations 2015 (CDM) not only in respect of those projects to which they refer, but also those projects which would benefit from using them as a framework for effective design management.
- To promote the reduction of errors and wasted effort during the design process through the implementation of an effective design management strategy. This includes factors introduced in health and safety legislation such as control, communication, cooperation, and competence.
- To introduce the concept of safety as an embedded factor in design, rather than a consideration to be introduced at some later stage in a project. This is achieved through demonstrating how safe design will lead to better, more efficient, and more cost-effective outcomes across the spectrum of design projects.

The reader will gain an understanding of the design process from initial idea to the validation of the product in service. They will also understand how CDM 2015 is applicable to the majority of construction projects, irrespective of industry sector. The reader will be shown how the seemingly complex matters of regulation and risk management can be applied practically to projects, through extensive use of illustrations and references. They will also be shown how safety regulation, standards and initiatives all strive for the same goal, i.e. that of achieving the safest output from any given project.

OCTOBER 2021 256PP
978-1-119-83203-4 CL \$100.00 (Japan)
Construction Management

Research Methods for Construction

RICHARD F. FELLOWS & ANITA M. M. LIU

formerly University of Bath; BSc, MSc, PhD, FRICS, FHKIS,
MCIQB, University of Hong Kong

The fifth edition of this book provides a coherent, comprehensive examination and explanation of construction research. It pursues a processual approach and addresses both theoretical/philosophical considerations as well as practical applications -- to academic activities and to industry and practice. A pervading theme amongst editors of research journals is the lack of research rigour commonly encountered in construction research papers submitted for consideration. The express aim of this book, like its previous editions, is to emphasise what rigour in construction research means and to enable its achievement to render any research valid and reliable. The new edition has undergone a significant restructuring to enhance the logical flow based around the development of a research cascade which leads from the question, through a range of research activities to produce results and conclusions. Significant new or enhanced material includes additional attention given to axiology, determinism and stochasticism, along with particular attention throughout to ethics, data protection and access, new material on theory borrowing, sensemaking and directionally motivated reasoning, along with additional models and details pertaining to translation.

OCTOBER 2021 320PP
978-1-119-81473-3 PB \$55.00 (Japan)
CONSTRUCTION MANAGEMENT

Models for financing, cost and risk assessment of major railway tunnel projects in Europe

(inkl. E-Book als PDF)

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 major 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.



OCTOBER 2021 150PP
978-3-433-03315-9 PB \$165.00 (Japan)
Tunnel Construction

化学

Spectroscopic Techniques for Polymer Characterization

Methods, Instrumentation, Applications

EDITOR YUKIHIRO OZAKI, NISHINOMIYA, JAPAN & EDITOR HARUMI SATO

Kwansei Gakuin University, Japan

Demonstrates the vast potential of spectroscopic characterization possibilities in polymer research, it clearly outlines and describes the principles, advantages, instrumentation, experimental techniques, and noteworthy applications of cutting-edge spectroscopy.

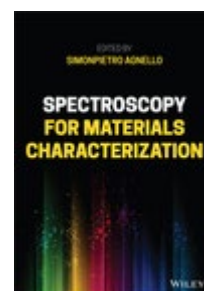
OCTOBER 2021 528PP
978-3-527-34833-6 CL \$175.00 (Japan)
Spectroscopy

Spectroscopy for Materials Characterization

SIMONPIETRO AGNELLO

Learn foundational and advanced spectroscopy techniques from leading researchers in physics, chemistry, surface science, and nanoscience

In *Spectroscopy for Materials Characterization*, accomplished researcher Simonpietro Agnello delivers a practical and accessible compilation of various spectroscopy techniques taught and used to today. The book offers a wide-ranging approach taught by leading researchers working in physics, chemistry, surface science, and nanoscience. It is ideal for both new students and advanced researchers studying and working with spectroscopy.



Topics like confocal and two photon spectroscopy, as well as infrared absorption and raman and micro raman spectroscopy, are discussed, as are thermally stimulated luminescence and spectroscopic studies of radiation effects on optical materials.

Each chapter includes a basic introduction to the theory necessary to understand a specific technique, details about the characteristic instrumental features and apparatuses used, including tips for the appropriate arrangement of a typical experiment, and a reproducible case study that shows the discussed techniques used in a real laboratory.

Perfect for masters and PhD students and researchers in physics, chemistry, engineering, and biology, *Spectroscopy for Materials Characterization* will also earn a place in the libraries of materials science researchers and students seeking a one-stop reference to basic and advanced spectroscopy techniques.

OCTOBER 2021 496PP
978-1-119-69732-9 CL \$170.00 (Japan)
Spectroscopy

Mass Spectrometry-Based Metabolomics in Clinical and Herbal Medicines

Strategies, Technologies and Applications

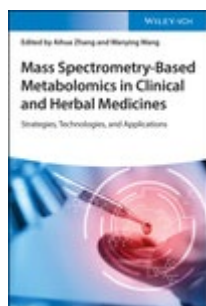
EDITOR AIHUA ZHANG & EDITOR WANYING WANG

Highlights the importance and benefit of mass spectrometry-based metabolomics for identifying biomarkers that accurately screen for potential biomarkers of diseases

Mass spectrometry-based metabolomics offer new opportunities for biomarker discovery in complex diseases and may provide pathological understanding of diseases beyond traditional technologies. It is the systematic analysis of low-molecular-weight metabolites in biological samples and has been applied to discovering and identifying the perturbed pathways. Currently, mass spectrometry-based metabolomics has become an important tool in clinical research and the diagnosis of human disease.

Mass Spectrometry-Based Metabolomics in Clinical and Herbal Medicines comprehensively presents the current state, challenges, and applications of high-throughput mass spectrometry-based metabolomics such as metabolites analysis, biomarker discovery, technical challenges, discovery of natural product, mechanism interpretation of action, discovery of active ingredients, clinical application and precision medicine, and enhancing their biomedical value in a real world of biomedicine, shedding light on the potential for spectrometry-based metabolomics. It highlights the value of mass spectrometry-based metabolomics and metabolism to address the complexity of herbal medicines in systems pharmacology, especially, to link phytochemical analysis with the assessment of pharmacological effect and therapeutic potential. Each chapter has been laid out with introduction, method, up-to-date literature, identification of biomarker, and applications. *Mass Spectrometry-Based Metabolomics in Clinical and Herbal Medicines* provides a landmark of mass spectrometry-based metabolomics research and a beneficial guideline to graduate students and researchers in academia, industry, and technology transfer organizations in all biomedical science fields.

OCTOBER 2021 288PP
978-3-527-34991-3 CL \$160.00 (Japan)
Mass Spectrometry



Electronic Waste

Recycling and Reprocessing for a Sustainable Future

MARIA E HOLUSZKO & AMIT KUMAR

Discover the latest technologies in the pursuit of zero-waste solutions in the electronics industry

In *Electronic Waste: Recycling and Reprocessing for a Sustainable Future*, a team of expert sustainability researchers delivers a collection of resources that thoroughly examine methods for extracting value from electronic waste while aiming for a zero-waste scenario in industrial production. The book discusses the manufacturing and use of materials in electronic devices while presenting an overview of separation methods for industrial materials.

Readers will also benefit from a global overview of various national and international regulations related to the topic of electronic and electrical waste.

A must-read resource for scientists and engineers working in the production and development of electronic devices, the authors provide comprehensive overviews of the benefits of achieving a zero-waste solution in electronic and electrical waste, as well as the risks posed by incorrectly disposed of electronic waste.

Perfect for materials scientists, electronic engineers, and metal processing professionals, *Electronic Waste: Recycling and Reprocessing for a Sustainable Future* will also earn a place in the libraries of industrial chemists and professionals working in organizations that use large amounts of chemicals or produce electronic waste.

OCTOBER 2021 352PP
978-3-527-34490-1 CL \$170.00 (Japan)
Industrial Chemistry

Carbon Monoxide in Organic Synthesis

Carbonylation Chemistry

EDITOR BARTOLO GABRIELE

Aimed at researchers in academia and industry, the book gives an up-to-date overview of carbonylation reactions in the presence of carbon monoxide using various transition metal catalysts as well as highlighting metal-free processes.

OCTOBER 2021 434PP
978-3-527-34795-7 CL \$164.39 (Japan)
Catalysis

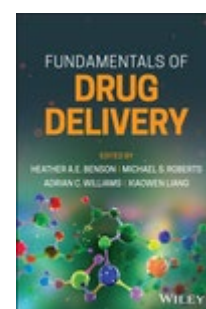
Fundamentals of Drug Delivery

EDITOR HEATHER A. E. BENSON, EDITOR MICHAEL S. ROBERTS,
EDITOR ADRIAN C. WILLIAMS & EDITOR XIAOWEN LIANG

Curtin University, Australia; University of South Australia;
Therapeutics at The University of Queensland; University of
Reading; The University of Queensland Diamantina Institute

A comprehensive guide on the fundamentals of drug delivery and the important processes in the development of controlled drug delivery systems.

- Describes the importance of physicochemical characteristics to dosage form design and the role of mathematical modeling to drug delivery
- Offers several chapters on controlled drug delivery through various bodily routes and explains the physiology of delivery routes and their biological barriers
- Addresses challenges in controlled drug delivery and advanced delivery technologies like biologics, cell-mediated, and nanotechnology-based systems

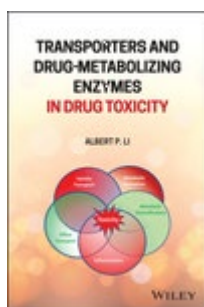


OCTOBER 2021 592PP
978-1-119-76960-6 CL \$225.00 (Japan)
Drug Formulation & Delivery

Transporters and Drug-Metabolizing Enzymes in Drug Toxicity

ALBERT P. LI

This book provides a comprehensive and up-to-date coverage of the relationship between drug metabolism enzymes and transporters on drug toxicity, along with methods to investigate their role on adverse drug reactions.



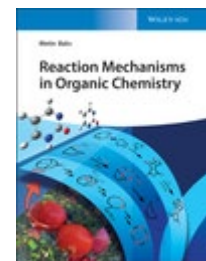
- Unites both the metabolism and transporter components of drug toxicity -- two aspects not normally connected and the latter often neglected
- Familiarizes readers with the mechanism and species differences in drug metabolizing enzymes and transporters
- Discusses promising approaches to accurately predict human drug toxicity via the incorporation of human drug metabolism in toxicity evaluation

OCTOBER 2021 512PP
978-1-119-17084-6 CL \$215.00 (Japan)
Toxicology

Reaction Mechanisms in Organic Chemistry

METIN BALCI

Understanding organic reaction mechanisms is the key for understanding organic chemistry. That is the concept of this unique textbook which supports the students perfectly to understand organic chemistry in a very comprehensive way. Includes a problem & solution section, too.



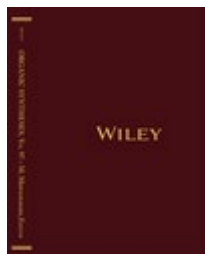
OCTOBER 2021 576PP
978-3-527-34964-7 CL \$100.06 (Japan)
Organic Chemistry

Organic Syntheses

Volume 97

EDITOR MOHAMMAD MOVASSAGHI

The current volume continues the tradition of the Organic Syntheses series, providing carefully checked and edited experimental procedures that describe important synthetic methods, transformations, reagents, and synthetic building blocks or intermediates with demonstrated utility in organic synthesis. These significant and interesting procedures should prove worthwhile to many synthetic chemists working in increasingly diverse areas. A trusted guide for professionals in organic and medicinal chemistry in academia, government, and industries, including pharmaceuticals, fine chemicals, agrochemicals, and biotechnological products.



SERIES: ORGANIC SYNTHESES

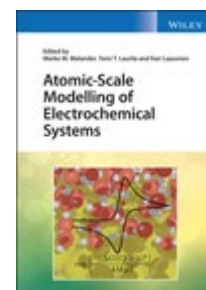
OCTOBER 2021 UnknownPP
978-1-119-81665-2 CL \$195.00 (Japan)
Methods - Synthesis & Techniques

Atomic-Scale Modelling of Electrochemical Systems

EDITOR MARKO MELANDER, EDITOR TOMI LAURILA & EDITOR KARI LAASONEN

A comprehensive overview of atomistic computational electrochemistry, discussing methods, implementation, and state-of-the-art applications in the field

The first book to review state-of-the-art computational and theoretical methods for modelling, understanding, and predicting the properties of electrochemical interfaces. This book presents a detailed description of the current methods, their background, limitations, and use for addressing the electrochemical interface and reactions. It also highlights several applications in electrocatalysis and electrochemistry.



Atomic-Scale Modelling of Electrochemical Systems discusses different ways of including the electrode potential in the computational setup and fixed potential calculations within the framework of grand canonical density functional theory. It examines classical and quantum mechanical models for the solid-liquid interface and formation of an electrochemical double-layer using molecular dynamics and/or continuum descriptions. A thermodynamic description of the interface and reactions taking place at the interface as a function of the electrode potential is provided, as are novel ways to describe rates of heterogeneous electron transfer, proton-coupled electron transfer, and other electrocatalytic reactions. The book also covers multiscale modelling, where atomic level information is used for predicting experimental observables to enable direct comparison with experiments, to rationalize experimental results, and to predict the following electrochemical performance.

Written by a team of experts within the field of computational electrochemistry and the wider computational condensed matter community, this book serves as an introduction to the subject for readers entering the field of atom-level electrochemical modeling, while also serving as an invaluable reference for advanced practitioners already working in the field.

OCTOBER 2021 416PP
978-1-119-60561-4 CL \$185.00 (Japan)
Electrochemistry

コミュニケーション

The Journalism Manifesto

BARBIE ZELIZER, PABLO J. BOCZKOWSKI & C. W. ANDERSON

READERSHIP: Students, scholars and activists in the fields of journalism, media, communication, policy, political communication, and related disciplines.

SERIES: THE MANIFESTO SERIES

OCTOBER 2021 140PP
 978-1-5095-4263-5 CL \$45.00 (Japan)
 978-1-5095-4264-2 PB \$12.95 (Japan)
 Journalism



コンピュータサイエンス

Raspberry Pi For Dummies

4th Edition

SEAN MCMANUS & MIKE COOK

Try a little DIY with your Raspberry Pi!

The bite-size Raspberry Pi is a wildly popular computer with many uses -- just don't try putting ice cream on top! *Raspberry Pi For Dummies* is your go-to for all the how-tos and must-dos of the Pi. With your computer in the palm of your hand and this book by your side, you can set up Linux, learn about circuits, dip into Scratch and Python coding, or program Minecraft. With this edition, you'll discover the Raspberry Pi 4 (or Raspberry Pi 400), Scratch 3, and the latest games and add-ons. Let Dummies show you the way.

**Inside**

- **Use the Raspberry Pi for work and play**
- **Install Linux® and learn the OS basics**
- **Get started with programming**
- **Make music with Sonic Pi**
- **Learn Scratch and Python**
- **Code mazes with Minecraft**
- **Build projects with LEDs and RFID**
- **Attach extra hardware**

OCTOBER 2021 512PP
 978-1-119-79682-4 PB \$26.99 (Japan)
 COMPUTER HARDWARE (GENERAL)

Concepts and Semantics of Programming Languages 2

A Semantical Approach with OCaml and Python

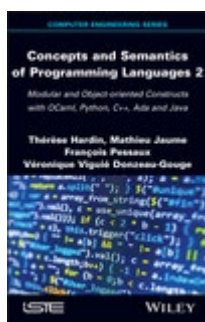
THÉRÈSE HARDIN, MATHIEU JAUME, FRANÇOIS PESSAUX &
VÉRONIQUE VIGUIE DONZEAU-GOUGE

This book -- composed of two volumes -- explores the syntactical constructs of the most common programming languages, and sheds a mathematical light on their semantics, providing also an accurate presentation of the material aspects that interfere with coding.

Concepts and Semantics of Programming Languages 2 presents an original semantic model, collectively taking into account all of the constructs and operations of modules and classes: visibility, import, export, delayed definitions, parameterization by types and values, extensions, etc. The model serves for the study of Ada and OCaml modules, as well as C header files. It can be deployed to model object and class features, and is thus used to describe Java, C++, OCaml and Python classes.

This book is intended not only for computer science students and teachers but also seasoned programmers, who will find a guide to reading reference manuals and the foundations of program verification.

OCTOBER 2021 UnknownPP
978-1-78630-602-9 CL \$165.00 (Japan)
Programming & Software Development



Understanding Databases

Concepts and Practice

1st Edition

SUZANNE W. DIETRICH

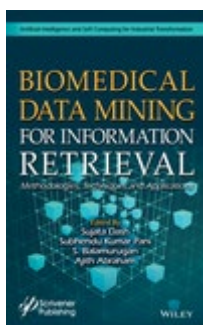
OCTOBER 2021 320PP
978-1-119-58064-5 PB \$34.27 (Japan)
Database & Data Warehousing Technologies

Biomedical Data Mining for Information Retrieval

Methodologies, Techniques, and Applications

SUJATA DASH, SUBHENDU KUMAR PANI, S. BALAMURUGAN
& AJITH ABRAHAM

This book comprehensively covers the topic of mining biomedical text, images and visual features towards information retrieval. Biomedical and Health Informatics is an emerging field of research at the intersection of information science, computer science, and health care and brings tremendous opportunities and challenges due to easily available and abundant biomedical data for further analysis. The aim of healthcare informatics is to ensure the high-quality, efficient healthcare, better treatment and quality of life by analyzing biomedical and healthcare data including patient's data, electronic health records (EHRs) and lifestyle. Previously it was a common requirement to have a domain expert to develop a model for biomedical or healthcare; however, recent advancements in representation learning algorithms allows us to automatically to develop the model. Biomedical Image Mining, a novel research area, due to its large amount of biomedical images increasingly generates and stores digitally. These images are mainly in the form of computed tomography (CT), X-ray, nuclear medicine imaging (PET, SPECT), magnetic resonance imaging (MRI) and ultrasound. Patients' biomedical images can be digitized using data mining techniques and may help in answering several important and critical questions related to health care. Image mining in medicine can help to uncover new relationships between data and reveal new useful information that can be helpful for doctors in treating their patients.



SERIES: ARTIFICIAL INTELLIGENCE AND SOFT COMPUTING
FOR INDUSTRIAL TRANSFORMATION

OCTOBER 2021 455PP
978-1-119-71124-7 CL \$225.00 (Japan)
Data Mining & Knowledge Discovery

Artificial Intelligence Hardware Design

Challenges and Solutions

ALBERT (CHUN-CHEN) LIU & OSCAR MING KIN LAW

Learn foundational and advanced topics in Neural Processing Unit design with real-world examples from leading voices in the field

In *Artificial Intelligence Hardware Design: Challenges and Solutions*, distinguished researchers and authors Drs. Albert Liu and Oscar Ming Kin Law deliver a rigorous and practical treatment of the design applications of specific circuits and systems for accelerating neural network processing. Beginning with a discussion and explanation of neural networks and their developmental history, the book goes on to describe parallel architectures, streaming graphs for massive parallel computation, and convolution optimization.



The authors offer readers an illustration of in-memory computation through Georgia Tech's Neurocube and Stanford's Tetris accelerator using the Hybrid Memory Cube, as well as near-memory architecture through the embedded eDRAM of the Institute of Computing Technology, the Chinese Academy of Science, and other institutions.

Readers will also find a discussion of 3D neural processing techniques to support multiple layer neural networks, as well as information like:

- A thorough introduction to neural networks and neural network development history, as well as Convolutional Neural Network (CNN) models
- Explorations of various parallel architectures, including the Intel CPU, Nvidia GPU, Google TPU, and Microsoft NPU, emphasizing hardware and software integration for performance improvement
- Discussions of streaming graph for massive parallel computation with the Blaize GSP and Graphcore IPU

Perfect for hardware and software engineers and firmware developers, *Artificial Intelligence Hardware Design* is an indispensable resource for anyone working with Neural Processing Units in either a hardware or software capacity.

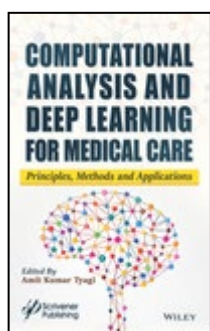
OCTOBER 2021 UnknownPP
978-1-119-81045-2 CL \$115.00 (Japan)
Artificial Intelligence

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).



Fuzzy Intelligent Systems

Methodologies, Techniques, and Applications

EDITOR E. CHANDRASEKARAN, EDITOR R. ANANDAN, EDITOR
SUSEENDRAN GOPALAKRISHNAN, EDITOR S. BALAMURUGAN
& EDITOR HANAA HACHIMI

Fuzzy Intelligent Systems: Methodologies, Techniques and Applications comprises state-of-the-art chapters detailing how expert systems are built and the fuzzy logic resembling human reasoning powering them. Hybrid and neuro-fuzzy intelligent systems are discussed along with Evolutionary and, in particular, Genetic Algorithms. This approach has been extended by using Multiobjective Evolutionary Algorithms, which can consider multiple conflicting objectives instead of a single one. The book also discusses the hybridization between Multiobjective Evolutionary Algorithms and Fuzzy Systems which is known as Multiobjective Evolutionary Fuzzy Systems.

SERIES: ARTIFICIAL INTELLIGENCE AND SOFT COMPUTING
FOR INDUSTRIAL TRANSFORMATION

OCTOBER 2021 510PP
978-1-119-76045-0 CL \$225.00 (Japan)
Artificial Intelligence

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

Is AI Good for the Planet?

BENEDETTA BREVINI

READERSHIP: Students, scholars and the general public interested in the environment and the climate crisis, and AI and emerging technologies. Relevant fields include AI, politics, environmental studies, sociology, media studies, anthropology, cultural studies, and technology studies.

SERIES: DIGITAL FUTURES

OCTOBER 2021 160PP
978-1-5095-4794-4 CL \$45.00 (Japan)
978-1-5095-4795-1 PB \$12.95 (Japan)
Artificial Intelligence



The Art of Attack

Attacker Mindset for Security Professionals

MAXIE REYNOLDS

Take on the perspective of an attacker with this insightful new resource for ethical hackers, pentesters, and social engineers

In *The Art of Attack: Attacker Mindset for Security Professionals*, experienced physical pentester and social engineer Maxie Reynolds untangles the threads of a useful, sometimes dangerous, mentality. The book shows ethical hackers, social engineers, and pentesters what an attacker mindset is and how to and how to use it to their advantage. Adopting this mindset will result in the improvement of security, offensively and defensively, by allowing you to see your environment objectively through the eyes of an attacker.



The book shows you the laws of the mindset and the techniques attackers use, from persistence to "start with the end" strategies and non-linear thinking, that make them so dangerous. You'll discover:

- A variety of attacker strategies, including approaches, processes, reconnaissance, privilege escalation, redundant access, and escape techniques
- The unique tells and signs of an attack and how to avoid becoming a victim of one
- What the science of psychology tells us about amygdala hijacking and other tendencies that you need to protect against

Perfect for red teams, social engineers, pentesters, and ethical hackers seeking to fortify and harden their systems and the systems of their clients, *The Art of Attack* is an invaluable resource for anyone in the technology security space seeking a one-stop resource that puts them in the mind of an attacker.

OCTOBER 2021 304PP
978-1-119-80546-5 PB \$30.00 (Japan)
Computer Security & Cryptography

Corporate Cybersecurity

Identifying Risks and the Bug Bounty Program

JOHN JACKSON

An insider's guide showing companies how to spot and remedy vulnerabilities in their security programs

A bug bounty program is offered by organizations for people to receive recognition and compensation for reporting bugs, especially those pertaining to security exploits and vulnerabilities. *Corporate Cybersecurity* gives cyber and application security engineers (who may have little or no experience with a bounty program) a hands-on guide for creating or managing an effective bug bounty program. Written by a cyber security expert, the book is filled with the information, guidelines, and tools that engineers can adopt to sharpen their skills and become knowledgeable in researching, configuring, and managing bug bounty programs.



This book addresses the technical aspect of tooling and managing a bug bounty program and discusses common issues that engineers may run into on a daily basis. The author includes information on the often-overlooked communication and follow-through approaches of effective management. *Corporate Cybersecurity* provides a much-needed resource on how companies identify and solve weaknesses in their security program.

Written for professionals working in the application and cyber security arena, *Corporate Cybersecurity* offers a comprehensive resource for building and maintaining an effective bug bounty program.

OCTOBER 2021 224PP
978-1-119-78252-0 CL \$110.00 (Japan)
Computer Security & Cryptography

Controversy Mapping

A Field Guide

TOMMASO VENTURINI & ANDERS KRISTIAN MUNK

READERSHIP: Students and researchers in science and technology studies, cultural studies, policy studies, data journalism and media studies. Its hands-on approach could also appeal to a larger audience of scholars and practitioners working on or in public disputes.



OCTOBER 2021 385PP
978-1-5095-4450-9 CL \$69.95 (Japan)
978-1-5095-4451-6 PB \$26.95 (Japan)
Digital Culture & the Information Age

文化研究

Greek and Roman Slaveries

KOSTAS VLASSOPOULOS & EFTYCHIA BATHRELLOU

University of Nottingham; University of Edinburgh

SERIES: BLACKWELL SOURCEBOOKS IN ANCIENT HISTORY

OCTOBER 2021 UnknownPP
978-1-118-96929-8 PB \$99.95 (Japan)
Ancient & Classical Studies

Black is the Journey, Africana the Name

MABOULA SOUMAHORO & TRANSLATED BY KAIAMA GLOVER

READERSHIP: Students and scholars of
race, slavery and decolonial studies;
students and scholars of Black history;
general readers interested in Black
identity and the contemporary
discussion of race

SERIES: CRITICAL SOUTH

OCTOBER 2021 140PP
978-1-5095-4832-3 CL \$54.95 (Japan)
978-1-5095-4833-0 PB \$16.95 (Japan)
Race & Ethnicity Studies



A Companion to Indian Cinema

NEEPA MAJUMDAR & RANJANI MAZUMDAR

With 25 chapters by established and emerging scholars of Indian cinema, this book engages with current debates in film and media studies, presenting new research on production cultures, media infrastructures, material cultures, media aesthetics and circulation, censorship, stardom, non-fiction practices, new technologies, and the transnational networks in which Indian cinema is embedded. Even as scholarship on earlier decades of Indian cinema is challenged by the absence of documentation and films, the innovative archival and field work in this volume extends from cinema in early twentieth century India to a historicized engagement with new technologies and contemporary cinematic practices. From regional cinemas such as Bhojpuri, Bengali, Malayalam, Manipuri, and Marathi to Indian cinema in China, the chapters also span the range from art cinema to commercial Bombay/Bollywood to B movie circuits.

SERIES: WILEY BLACKWELL COMPANIONS TO NATIONAL CINEMAS

OCTOBER 2021 UnknownPP
978-1-119-04819-0 CL \$185.00 (Japan)
Film Studies

Practical Procedures in Dental Occlusion

M. ZIAD AL-ANI & RIAZ YAR

Glasgow Dental Hospital & School, Glasgow, UK

A robust and accessible resource on occlusion for general dental practitioners

Practical Procedures in Dental Occlusion delivers a solid and reliable exploration of dental occlusion. The book offers practical and accessible information about evidence-based techniques applicable to everyday clinical situations encountered in general practice.

The authors provide a straightforward guide to the optimisation of restorative treatment outcomes, including occlusion in simple and advanced restorative care. The inclusion of questions at the end of the book, a glossary of useful terms and phrases in occlusion encourages self-assessment.

Readers will also find:

- Thorough introductions to common prosthodontic terms, neuromuscular philosophies, and the equipment and techniques used in occlusal examination
- Practical explorations of typical problems faced by practitioners when recording occlusal contacts using different articulating papers
- Overviews of "high crown" clinical scenarios, including the importance of opposing alginate impressions and cast mounting
- An insightful treatment of the clinical scenario of a fractured upper central incisor composite restoration

Perfect for undergraduate dental students and general dental practitioners, *Practical Procedures in Dental Occlusion* is a valuable resource for those seeking a systematic and logical treatment of the management of occlusal problems.

OCTOBER 2021 213PP
978-1-119-67851-9 PB \$105.00 (Japan)
General Dentistry

Salivary Gland Pathology

Diagnosis and Management, 3rd Edition

EDITOR ERIC R. CARLSON & EDITOR ROBERT A. ORD

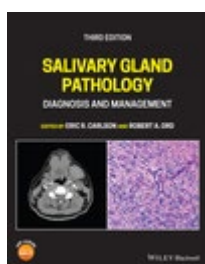
University of Tennessee Memorial Hospital; University of Maryland, Baltimore, Maryland, USA

Salivary Gland Pathology: Diagnosis and Management, Third Edition is an authoritative reference to this important discipline in medicine, dentistry, and surgery. Covering the etiology, diagnosis, and treatment of a broad range of pathologies, this comprehensive textbook provides insight into every facet of diagnosis and treatment for all salivary gland pathologies, and offers a wealth of high-quality clinical images, detailed surgical illustrations, and video clips of actual surgeries via a companion website.

The fully revised third edition contains new chapters on complications in salivary gland surgery and minimally invasive salivary gland pathology, and includes approximately 100 new clinical images and numerous surgical line drawings. *Salivary Gland Pathology* now features case presentations to place the information in context, as well as additional treatment algorithms in each chapter to assist in clinical decision making.

Salivary Gland Pathology: Diagnosis and Management, Third Edition remains the definitive resource for oral and maxillofacial surgeons, otolaryngologists, head and neck surgeons, and general surgeons as well as their residents providing care for patients with salivary gland pathology.

OCTOBER 2021 672PP
978-1-119-73018-7 CL \$299.99 (Japan)
ORAL & MAXILLOFACIAL SURGERY



Handbook of Oral Pathology and Oral Medicine

S. R. PRABHU

Discover a concise overview of the most common oral diseases in a reader-friendly book

Handbook of Oral Pathology and Oral Medicine delivers a succinct overview of a range of oral diseases. The book contains up-to-date evidence-based information organized by clinical topic and supported by over 300 clinical, radiological, and microscopic images. Each chapter includes topics following universally respected curricula of oral pathology and oral medicine.

Divided into seven parts, it covers core topics such as pathology of teeth, pulp, and supporting structures, pathology of jawbones, pathology of the oral mucosa, pathology of the salivary glands, clinical presentation of mucosal disease, orofacial pain, and miscellaneous topics of clinical relevance.

Written for undergraduate dental students, dental hygienists and oral health therapists, *Handbook of Oral Pathology and Oral Medicine* is an ideal quick reference and is also useful to dental educators and practitioners.

OCTOBER 2021 320PP
978-1-119-78112-7 PB \$90.00 (Japan)
Oral Pathology

Manual of Laboratory Testing Methods for Dental Restorative Materials

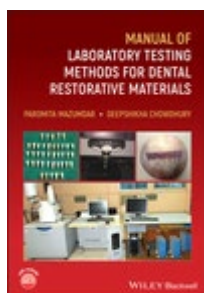
PAROMITA MAZUMDAR & DEEPSHIKHA CHOWDHURY

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.



OCTOBER 2021 160PP
978-1-119-68799-3 PB \$155.00 (Japan)
Dental Technology & Materials Science

Practical Procedures in Implant Dentistry

CHRISTOPHER C. K. HO

Private practice, Australia

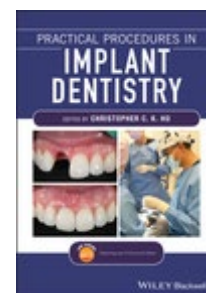
Master the fundamentals and intricacies of implant dentistry with this comprehensive and practical new resource

Practical Procedures in Implant Dentistry delivers a comprehensive collection of information demonstrating the science and clinical techniques in implant dentistry. Written in a practical and accessible style that outlines the principles and procedures of each technique, the book offers clinical tips and references to build a comprehensive foundation of knowledge in implantology.

Written by an international team of contributors with extensive clinical and academic expertise, *Practical Procedures in Implant Dentistry* covers core topics such as:

- Rationale and assessment for implant placement and restoration, including the diagnostic records and surgical considerations required for optimal planning and risk management
- Incision design considerations and flap management, with an essential knowledge of regional neuro-vascular structures
- Implant placement, encompassing the timing of the placement, bone requirements and understanding the importance of the peri-implant interface for soft tissue stability
- Impression techniques, loading protocols, digital workflows and the aesthetic considerations of implants
- Prosthetic rehabilitation of single tooth implants to fully edentulous workflows, including discussions of soft tissue support, biomechanics and occlusal verification

Perfect for both general dental practitioners and specialists in implant dentistry, *Practical Procedures in Implant Dentistry* is also a valuable reference to senior undergraduate and postgraduate dental students.



OCTOBER 2021 432PP
978-1-119-39917-9 PB \$120.00 (Japan)
Implant Dentistry

経済学

Preadjusted Edgewise Fixed Orthodontic Appliances

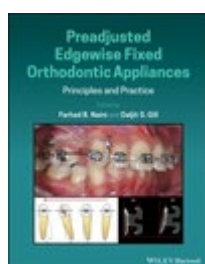
Principles and Practice

FARHAD B. NAINI & DALJIT S. GILL

Consultant Orthodontist, St. George's Hospital and Medical School; Consultant Orthodontist, Eastman Dental Hospital

Explore the possibilities of preadjusted edgewise appliances in orthodontics with this essential resource

Preadjusted Edgewise Fixed Orthodontic Appliances: Principles and Practice comprehensively covers the increasingly popular preadjusted edgewise technique in orthodontics.



The book integrates clinical practice and research findings, focusing on the biomechanics and clinical management of patients with preadjusted edgewise appliances. A unique learning resource for specialists and trainees in orthodontics, the book is highly illustrated and broad in scope, covering everything from informed patient consent to clinical techniques to information about how to manage patient malocclusions.

Perfect for postgraduate dentists undergoing specialist training in orthodontics, specialist practitioners, and hospital consultant orthodontists, *Preadjusted Edgewise Fixed Orthodontic Appliances: Principles and Practice* will also be useful to dentists with a special interest in orthodontics, orthodontic therapists, and orthodontic nurses who seek a comprehensive manual of the most popular fixed orthodontic appliance technique.

OCTOBER 2021 544PP
978-1-118-81769-8 CL \$127.99 (Japan)
Orthodontics

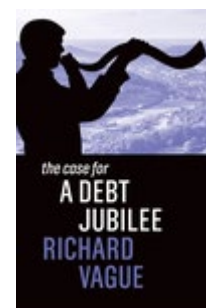
The Case for a Debt Jubilee

RICHARD VAGUE

READERSHIP: General readers interested in debt, the COVID-19 economic crisis.

SERIES: THE CASE FOR

OCTOBER 2021 140PP
978-1-5095-4872-9 CL \$45.00 (Japan)
978-1-5095-4873-6 PB \$12.95 (Japan)
Political Economics / 9781509548736 PB \$45.00 (Japan)



教育

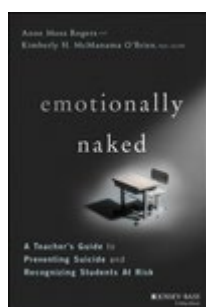
Emotionally Naked

A Teacher's Guide to Preventing Suicide and Recognizing Students at Risk

ANNE MOSS ROGERS & KIM O'BRIEN

Discover effective strategies to help prevent youth suicide

In *Emotionally Naked: A Teacher's Guide to Preventing Suicide and Recognizing Students at Risk*, trainer, speaker, and suicide loss survivor Anne Moss Rogers, and clinical social worker and researcher, Kimberly O'Brien, PhD, LICSW, empower middle and high school educators with the knowledge and skills to leverage their relationships with students to reduce this threat to life.



The purpose of this book is not to turn teachers into therapists but given the pervasive public health problem of suicide in our youth, it's a critical conversation that all educators need to feel comfortable having. Educators will learn evidence-based concepts of suicide prevention, plus lesser known innovative strategies and small culture shifts for the classroom to facilitate connection and healthy coping strategies, the foundation of suicide prevention. Included is commentary from teachers, school psychologists, experts in youth suicidology, leaders from mental health nonprofits, program directors, and students. In addition, readers will find practical tips, and sample scripts, with innovative activities that can be incorporated into teaching curricula.

Who is it for:

Middle/high school teachers and educators, school counselors, nurses, psychologists, coaches, and administrators, as well as parents who wish to better understand the complex subject of youth suicide.

OCTOBER 2021 368PP
978-1-119-75830-3 PB \$29.95 (Japan)
K-12 General

Lost and Found

Helping Behaviorally Challenging Students (and, While You're At It, All the Others), 2nd Edition

ROSS W. GREENE

Help the students with concerning behaviors without detentions, suspensions, expulsions, paddling, restraint, and seclusion

In the newly revised Second Edition of *Lost and Found*, distinguished child psychologist Dr. Ross W. Greene delivers an insightful and effective framework for educators struggling with students with concerning behaviors. The author's Collaborative & Proactive Solutions (CPS) approach focuses on the problems that are causing concerning behaviors and helps school staff partner with students to solve those problems rather than simply modifying the behavior.

In this book, you'll discover:

- A more compassionate, practical, effective approach to students' concerning behaviors, one that positions educators as allies, not enemies, and as partners, not adversaries
- Updated examples and dialogue suited to modern classrooms and recent innovations from the constantly evolving CPS model
- Specific advice on how schools can eliminate the use of punitive, exclusionary disciplinary procedures and address disproportionality

Perfect for K-12 educators in general and special education, *Lost and Found* has also become standard reading for teachers-in-training, professors, and parents who struggle to help students for whom "everything" has already been tried.

SERIES: J-B ED: REACH AND TEACH

OCTOBER 2021 208PP
978-1-119-81357-6 CL \$30.00 (Japan)
K-12 GENERAL

Who's In My Classroom?

Building Developmentally and Culturally Responsive School Communities

GESS LEBLANC & TIM FREDRICK

Capitalize on the latest educational research and youth voices to inform your teaching and become more culturally and developmentally aware

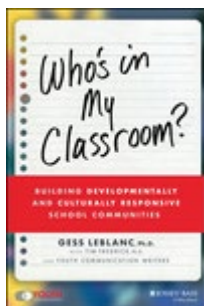
In *Who's In My Classroom?*, accomplished educator and author delivers an inspirational and practical combination of true stories from teens in Youth Communication's award-winning writing program and the most current educational research. The book links theories of adolescent development and identity formation to best practices in real-world classrooms where teachers strive to form supportive relationships with students.

In this book, you'll find:

- Narrative and explanations of the most cutting-edge research in educational and developmental psychology and cultural competence
- Excerpts from stories by students specifically written and edited with social and emotional learning competencies in mind
- Practical and concrete strategies for administrators and teachers to implement for sustainable improvement in learning outcomes for their students, including the use of Youth Communication's stories

Perfect for K-12 educators, counselors, and administrators, *Who's In My Classroom?* is also an indispensable resource for higher education professionals and pre-service teachers seeking a practical guide to help them become more developmentally and culturally responsive in their work.

OCTOBER 2021 304PP
978-1-119-82413-8 PB \$35.00 (Japan)
Teacher Education (K-12)



Small Teaching

Everyday Lessons from the Science of Learning

2nd Edition

JAMES M. LANG

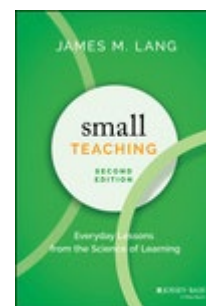
A freshly updated edition featuring research-based teaching techniques that faculty in any discipline can easily implement

Research into how we learn can help facilitate better student learning--if we know how to apply it. *Small Teaching* fills the gap in higher education literature between the primary research in cognitive theory and the classroom environment. In this book, James Lang presents a strategy for improving student learning with a series of small but powerful changes that make a big difference - many of which can be put into practice in a single class period. These are simple interventions that can be integrated into pre-existing techniques, along with clear descriptions of how to do so. Inside, you'll find brief classroom or online learning activities, one-time interventions, and small modifications in course design or student communication. These small tweaks will bring your classroom into alignment with the latest evidence in cognitive research.

Each chapter introduces a basic concept in cognitive research that has implications for classroom teaching, explains the rationale for offering it within a specific time period in a typical class, and then provides concrete examples of how this intervention has been used or could be used by faculty in a variety of disciplines.

Higher education faculty and administrators, as well as K-12 teachers and teacher trainers, will love the easy-to-implement, evidence-based techniques in *Small Teaching*.

OCTOBER 2021 288PP
978-1-119-75554-8 CL \$29.95 (Japan)
TEACHING & LEARNING (HIGHER EDUCATION)



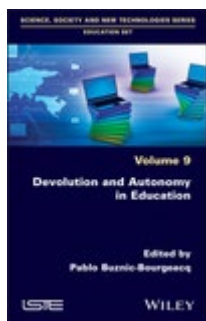
Devolution and Autonomy in Education

EDITOR PABLO BUZNIC-BOURGEACQ

Allowing learners to take some responsibility may seem obvious yet what is actually afforded to them, and how this process works, remains difficult to grasp. It is therefore essential to study the real objects of devolution and the roles played by the subjects involved. Devolution and Autonomy in Education questions the concept of devolution, introduced into the field of education in the 1980s from disciplinary didactics, and described in Guy Brousseau's Theory of Didactical Situations in Mathematics as: *the act by which the teacher makes the student take responsibility for a learning situation (adidactic) or problem and accepts the consequences of this transfer.*

The book revisits this concept through a variety of subject areas (mathematics, French, physical education, life sciences, digital learning, play) and educational domains (teaching, training, facilitation). Using these intersecting perspectives, this book also examines the purpose and timeline of the core process for thinking about autonomy and empowerment in education.

OCTOBER 2021 UnknownPP
978-1-78630-698-2 CL \$165.00 (Japan)
Education Special Topics



電気電子工学

Alexa For Dummies

2nd Edition

PAUL MCFEDRIES, TORONTO, ONTARIO, CANADA

HEY ALEXA, ORDER THAT DUMMIES BOOK

Alexa For Dummies, 2nd Edition will teach readers all about their new Alexa-enabled device, from set-up to insider tips and tricks.



Updates for this edition include coverage of all Echo devices, including the latest Echo, Echo Dot and Echo Show, Echo Studio, Echo Flex, Echo Loop, Echo Buds, and Echo Frames. There is also information on multilingual mode, updated privacy coverage, and Alexa Guest Connect.

OCTOBER 2021 UnknownPP
978-1-119-82208-0 PB \$24.99 (Japan)
COMMUNICATION TECHNOLOGY

Advanced Antenna Array Engineering for 6G and Beyond Wireless Communications

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

University of Technology Sydney, Australia; University of Arizona

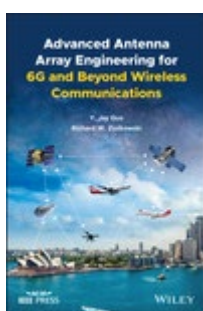
Reviews advances in the design and deployment of antenna arrays for the next generation of cellular technology, offering new solutions for the telecommunications industry

Advanced Antenna Arrays for 5G and Beyond addresses the challenges in designing and deploying antennas which deliver 5G performance, can be collocated with 4G antennas, and are immune to interference caused by future 6G antennas mounted on airborne and spaceborne platforms. This timely and authoritative volume presents innovative solutions for developing integrated communications networks of high-gain, individually-scannable, multi-beam antennas that are reconfigurable and conform to all platforms.

The text begins with an up-to-date discussion of the engineering issues facing future wireless communications systems, followed by detailed review of different beamforming networks for multi-beam antennas. Subsequent chapters address problems of 4G/5G antenna collocation, discuss differentially-fed antenna arrays, explore conformal transmit arrays for airborne platforms, and more.

Advanced Antenna Arrays for 5G and Beyond is an invaluable resource for antenna engineers and researchers, as well as graduate and senior undergraduate students in the field.

OCTOBER 2021 320PP
978-1-119-71290-9 CL \$135.00 (Japan)
Antennas & Propagation



Next-Generation Antennas

Advances and Challenges

PRASHANT RANJAN, DHARMENDRA KUMAR JHARIYA, MANOJ GUPTA, KRISHNA KUMAR & PRADEEP KUMAR

National University of Singapore

Antenna design and wireless communication has recently witnessed their fastest growth period ever in history, and these trends are likely to continue for the foreseeable future. Due to recent advances in industrial applications as well as antenna, wireless communication, and 5G technology, we are witnessing a variety of developing and expanding new technologies. Compact and low-cost antennas are increasing the demand for ultra-wide bandwidth in next-generation (5G) wireless communication systems and the Internet of Things (IoT). Enabling the next generation of high-frequency communication, various methods have been introduced to achieve reliable high data rate communication links and enhance the directivity of planar antennas. 5G technology can be used in many applications, such as in smart city applications and in smartphones. This technology can satisfy the fast rise in user and traffic capacity in mobile broadband communications.

Therefore, different planar antennas with intelligent beamforming capability play an important role in these areas. The purpose of this book is to present the advanced technology, developments, and challenges in antennas for next-generation antenna communication systems. This book covers advances in next-generation antenna design and application domain in all related areas. It is a detailed overview of cutting-edge developments and other emerging topics and their applications in all areas of engineering that have achieved great accuracy and performance with the help of the advancement and challenges in next generation antennas.

Whether a refresher for veteran engineers hoping to stay abreast of the latest advances and developing concepts in the field, an introduction to new engineers moving into the field, or a textbook for students and faculty, this groundbreaking new volume is a must-have for any library.

OCTOBER 2021 304PP
978-1-119-79186-7 CL \$225.00 (Japan)
Antennas & Propagation

Artificial Intelligence and Data Mining Approaches in Security Frameworks

Advances and Challenges

NEERAJ BHARGAVA, RITU BHARGAVA, PRAMOD SINGH RATHORE & RASHMI AGRAWAL

Artificial intelligence (AI) and data mining is the fastest growing field in computer science. AI and data mining algorithms and techniques are found to be useful in different areas like pattern recognition, automatic threat detection, automatic problem solving, visual recognition, fraud detection, detecting developmental delay in children, and many other applications. However, applying AI and data mining techniques or algorithms successfully in these areas needs a concerted effort, fostering integrative research between experts ranging from diverse disciplines from data science to Artificial Intelligence. Successful application of security frameworks to enable meaningful, cost effective, personalize security service is a primary aim of engineers and researchers today. However realizing this goal requires effective understanding, application and amalgamation of AI and Data Mining and several other computing technologies to deploy such system in an effective manner.

This book provides state of the art approaches of artificial intelligence and data mining in these areas. It includes areas of detection, prediction, as well as future framework identification, development, building service systems and analytical aspects. In all these topics, applications of AI and data mining, such as artificial neural networks, fuzzy logic, genetic algorithm and hybrid mechanisms, are explained and explored. This book is aimed at the modeling and performance prediction of efficient security framework systems, bringing to light a new dimension in the theory and practice.

This groundbreaking new volume presents these topics and trends, bridging the research gap on AI and data mining to enable wide-scale implementation. Whether for the veteran engineer or the student, this is a must-have for any library.

SERIES: ADVANCES IN DATA ENGINEERING AND MACHINE LEARNING

OCTOBER 2021 311PP
978-1-119-76040-5 CL \$225.00 (Japan)
Communication System Security

Game Theory and Machine Learning for Cyber Security

EDITOR CHARLES A. KAMHOUA, EDITOR CHRISTOPHER D. KIEKINTVELD, EDITOR FEI FANG & EDITOR QUANYAN ZHU

This book describes a comprehensive suite of solutions to a broad range of technical issues in applying game theory and machine learning to solve cyber security challenges. It begins by introducing basic concepts on game theory, machine learning, cyber security and cyber deception. Further chapters bring together the best researchers and practitioners in cyber security to share their latest research contributions in hypergames, behavioral game theory, adversarial machine learning, generative adversarial networks, and multi-agent reinforcement learning. The book provides expert insights on applying these new methods to address cyber autonomy, 5G security, blockchain technology, attack graphs, sensor manipulation, fault injection, moving target defense, Cyber-Physical Systems (CPS), Internet-of-Battle- Things (IoBT), multi-domain battle. The book closes by summarizing ongoing research topics in cyber security and points to open issues and future research challenges.

OCTOBER 2021 576PP
978-1-119-72392-9 CL \$140.00 (Japan)
Communication System Security

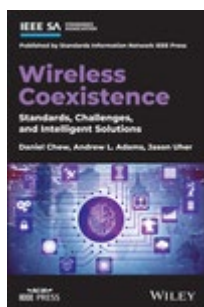
Wireless Coexistence

Standards, Challenges, and Intelligent Solutions

DANIEL CHEW, ANDREW L. ADAMS & JASON 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.

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

Cyber-Physical Distributed Systems

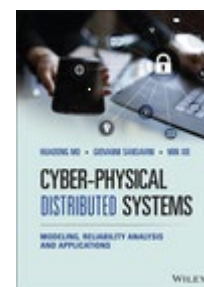
Modeling, Reliability Analysis and Applications

HUADONG MO, GIOVANNI SANSAVINI & MIN XIE

National University of Singapore

CYBER-PHYSICAL DISTRIBUTED SYSTEMS

Gather detailed knowledge and insights into cyber-physical systems behaviors from a cutting-edge reference written by leading voices in the field



In *Cyber-Physical Distributed Systems: Modeling, Reliability Analysis and Applications*, distinguished researchers and authors Drs. Huadong Mo, Giovanni Sansavini, and Min Xie deliver a detailed exploration of the modeling and reliability analysis of cyber physical systems through applications in infrastructure and energy and power systems. The book focuses on the integrated modeling of systems that bring together physical and cyber elements and analyzing their stochastic behaviors and reliability with a view to controlling and managing them.

The book offers a comprehensive treatment on the aging process and corresponding online maintenance, networked degradation, and cyber-attacks occurring in cyber-physical systems. The authors include many illustrative examples and case studies based on real-world systems and offer readers a rich set of references for further research and study.

Cyber-Physical Distributed Systems covers recent advances in combinatorial models and algorithms for cyber-physical systems modeling and analysis.

Perfect for undergraduate and graduate students in computer science, electrical engineering, cyber security, industrial and system engineering departments, *Cyber-Physical Distributed Systems* will also earn a place on the bookshelves of students taking courses related to reliability, risk and control engineering from a system perspective. Reliability, safety and industrial control professionals will also benefit greatly from this book.

OCTOBER 2021 224PP
978-1-119-68267-7 CL \$135.00 (Japan)
Communication Technology - Networks

NG-RAN and 5G-NR

5G Radio Access Network and Radio Interface

FREDERIC LAUNAY & ANDREW PEREZ-LOPEZ

NG-RAN and 5G-NR describes the deployment of 5G NSA (non standalone 5G) and 5G-SA (standalone 5G). 5G-NSA deals with radio access entities. For the 5G-NSA mode, dual MR DC connectivity is based on radio measurements, allowing the master 4G base station MeNB to add or remove a secondary 5G node SgNB.



This book describes the architecture of the NG radio access network and the 5G-NR radio interface according to the 3GPP (3rd Generation Partnership Project) specifications. The overall architecture of the NG-RAN, including the NG, Xn and F1 interfaces and their interaction with the radio interface, are also described. The 5G-NR physical layer is mainly connected by implementing antennas, which improves transmission capacity. 5G-SA deals with the 5G Core network.

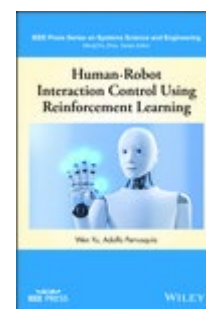
In the 5G-SA model, the mobile is attached to the 5G Core network through NG-RAN. The book explains radio procedure, from switching on a device to establishing a data connection, and how this connection is maintained even if mobility is involved for both 5G-SA and 5G-NSA deployment. NG-RAN and 5G-NR is devoted to the radio access network, but mobile registration, establishment procedures and re-establishment procedures are also explained.

OCTOBER 2021 UnknownPP
978-1-78630-628-9 CL \$165.00 (Japan)
Communication Technology - Networks

Human-Robot Interaction Control Using Reinforcement Learning

WEN YU & ADOLFO PERRUSQUIA

This book gives brief overview of human-robot interaction control schemes, and presents novel model-free and reinforcement learning controllers. It begins with a brief introduction and state of art of human-robot interaction control and reinforcement learning. It then moves on to describe the typical environment model and some of the most famous identification techniques for parameters estimation. Later chapters address the robot-interaction schemes using impedance and admittance controllers, model-free controllers, and input forces/torques of the human operator. The authors also describe using the reinforcement learning approach for the position/force control task in discrete time, to achieve an optimal robot-environment interaction using a position/force control. They also explore how to design robust controllers based on the modified reinforcement learning under the worst-case uncertainty. Closing topics include inverse and velocity kinematics solution, H2 neural control, and future developments in the field.



SERIES: IEEE PRESS SERIES ON SYSTEMS SCIENCE AND ENGINEERING

OCTOBER 2021 UnknownPP
978-1-119-78274-2 CL \$140.00 (Japan)
Control Systems Technology

E-CARGO and Role-Based Collaboration

Modeling and Solving Problems in the Complex World

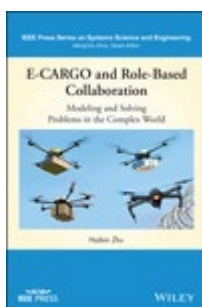
HAIBIN ZHU

A model for collaboratively solving complex problems

E-CARGO and Role-Based Collaboration offers a unique guide that explains the nature of collaboration, explores an easy-to-follow process of collaboration, and defines a model to solve complex problems in collaboration and complex systems. Written by a noted expert on the topic, the book contains a set of concepts, models, components, and algorithms for establishing an effective collaborative system. The role-based collaboration (RBC) methodology can be applied to the analysis, design, and development of a variety of collaborative systems including societal-technical systems. The models and algorithms can also be applied across system engineering, production, and management.

The RBC provides insights into complex systems through the use of its core model ECARGO. The E-CARGO model provides the fundamental components, principles, relationships, and structures for specifying the state, process, and evolution of complex systems.

Written for researchers and practitioners dealing with complex problems in collaboration systems and technologies, *E-CARGO and Role-Based Collaboration* contains a model to solve real world problems with the help of computer-based systems.



SERIES: IEEE PRESS SERIES ON SYSTEMS SCIENCE AND ENGINEERING

OCTOBER 2021 UnknownPP
978-1-119-69306-2 CL \$125.00 (Japan)
Systems Engineering & Management

Industry 4.1

Intelligent Manufacturing with Zero Defects

EDITOR FAN-TIEN CHENG

Discover the future of manufacturing with this comprehensive introduction to Industry 4.0 technologies from a celebrated expert in the field

Industry 4.1: Intelligent Manufacturing with Zero Defects delivers an in-depth exploration of the functions of intelligent manufacturing and its applications and implementations through the Intelligent Factory Automation (iFA) System Platform. The book's distinguished editor offers readers a broad range of resources that educate and enlighten on topics as diverse as the Internet of Things, edge computing, cloud computing, and cyber-physical systems.

You'll learn about three different advanced prediction technologies: Automatic Virtual Metrology (AVM), Intelligent Yield Management (IYM), and Intelligent Predictive Maintenance (IPM). Different use cases in a variety of manufacturing industries are covered, including both high-tech and traditional areas.

In addition to providing a broad view of intelligent manufacturing and covering fundamental technologies like sensors, microcontrollers, and communication standards, the book offers access to experimental data through the IEEE DataPort. Finally, it shows readers how to build an intelligent manufacturing platform called an Advanced Manufacturing Cloud of Things (AMCoT).

Perfect for researchers, engineers, scientists, professionals, and students who are interested in the ongoing evolution of Industry 4.0 and beyond, *Industry 4.1: Intelligent Manufacturing with Zero Defects* will also win a place in the library of laypersons interested in intelligent manufacturing applications and concepts. Completely unique, this book shows readers how Industry 4.0 technologies can be applied to achieve the goal of Zero Defects for all products.



SERIES: IEEE PRESS SERIES ON SYSTEMS SCIENCE AND ENGINEERING

OCTOBER 2021 UnknownPP
978-1-119-73989-0 CL \$140.00 (Japan)
Systems Engineering & Management

Sensor Data Analysis and Management

The Role of Deep Learning

EDITOR A. SURESH, EDITOR R. UDENDHRAN & EDITOR M. S. IRFAN AHMED

Discover detailed insights into the methods, algorithms, and techniques for deep learning in sensor data analysis

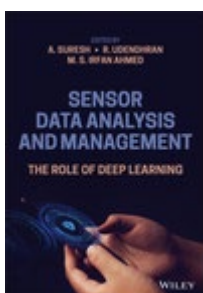
Sensor Data Analysis and Management: The Role of Deep Learning delivers an insightful and practical overview of the applications of deep learning techniques to the analysis of sensor data. The book collects cutting-edge resources into a single collection designed to enlighten the reader on topics as varied as recent techniques for fault detection and classification in sensor data, the application of deep learning to Internet of Things sensors, and a case study on high-performance computer gathering and processing of sensor data.

The editors have curated a distinguished group of perceptive and concise papers that show the potential of deep learning as a powerful tool for solving complex modelling problems across a broad range of industries, including predictive maintenance, health monitoring, financial portfolio forecasting, and driver assistance.

The book contains real-time examples of analyzing sensor data using deep learning algorithms and a step-by-step approach for installing and training deep learning using the Python keras library.

Perfect for industry practitioners and academics involved in deep learning and the analysis of sensor data, *Sensor Data Analysis and Management: The Role of Deep Learning* will also earn a place in the libraries of undergraduate and graduate students in data science and computer science programs.

OCTOBER 2021 250PP
978-1-119-68242-4 CL \$135.00 (Japan)
Sensors, Instrumentation & Measurement



Harmonic Modeling of Voltage Source Converters using Basic Numerical Methods

RYAN KUO-LUNG LIAN, RAMADHANI KURNIAWAN SUBROTO, BING HAO LIN & VICTOR ANDREAN

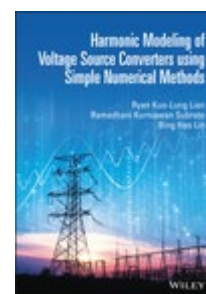
One of the first books to bridge the gap between frequency domain and time-domain methods of steady-state modelling of power electronic converters

Harmonic Modeling of Voltage Source Converters Using Simple Numerical Methods presents detailed coverage of steady-state modelling of power electronic devices (PEDs). This authoritative resource describes both large-signal and small-signal modelling of power converters how some of simple and commonly used numerical methods can be applied for harmonic analysis and modeling of power converter system. The book covers a variety of power converters including DC-DC converters, diode bridge rectifiers (AC-DC), and voltage source converters (DC-AC).

The authors provide in-depth guidance on modelling and simulating the entire power converter systems. Detailed chapters contain relevant theory, practical examples, clear illustrations, sample MATLAB codes, and validation enabling readers to build their own harmonic models for various PEDs and integrate them with existing power flow programs such as OpenDss. This book: • Presents comprehensive large-signal and small-signal harmonic model of voltage source converter with various topologies.

Harmonic Modelling of Power Converters Using Time Domain Methods is an indispensable reference and guide for researchers and graduate students involved in power quality and harmonic analysis, power engineers working in the field of harmonic power flow, developers of power simulation software, and academics and power industry professionals wanting to learn about harmonic modelling on power converters.

OCTOBER 2021 400PP
978-1-119-52713-8 CL \$145.00 (Japan)
Power Electronics



EEG Signal Processing and Machine Learning

2nd Edition

SAEID SANEI & JONATHON A. CHAMBERS

Cardiff University; Department of Electronic and Electrical Engineering, University of Bath, UK

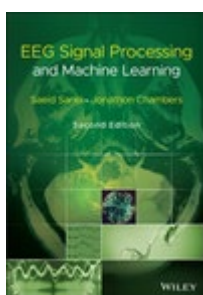
Explore cutting edge techniques at the forefront of electroencephalogram research and artificial intelligence from leading voices in the field

The newly revised Second Edition of EEG Signal Processing and Machine Learning delivers an inclusive and thorough exploration of new techniques and outcomes in electroencephalogram (EEG) research in the areas of analysis, processing, and decision making about a variety of brain states, abnormalities, and disorders using advanced signal processing and machine learning techniques. The book content is substantially increased upon that of the first edition and, while it retains what made the first edition so popular, is composed of more than 50% new material.

The distinguished authors have included new material on tensors for EEG analysis and sensor fusion, as well as new chapters on mental fatigue, sleep, seizure, neurodevelopmental diseases, BCI, and psychiatric abnormalities. In addition to including a comprehensive chapter on machine learning, machine learning applications have been added to almost all the chapters. Moreover, multimodal brain screening, such as EEG-fMRI, and brain connectivity have been included as two new chapters in this new edition.

Perfect for biomedical engineers, neuroscientists, neurophysiologists, psychiatrists, engineers, and students and researchers in the above areas, the Second Edition of EEG Signal Processing and Machine Learning will also earn a place in the libraries of undergraduate and postgraduate Biomedical Engineering and Neuroscience, including Epileptology, students.

OCTOBER 2021 720PP
978-1-119-38694-0 CL \$135.00 (Japan)
SIGNAL PROCESSING



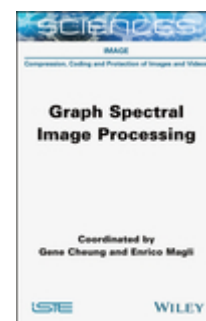
Graph Spectral Image Processing

GENE CHEUNG & ENRICO MAGLI

Graph spectral image processing is the study of imaging data from a graph frequency perspective. Modern image sensors capture a wide range of visual data including high spatial resolution/high bit-depth 2D images and videos, hyperspectral images, light field images and 3D point clouds. The field of graph signal processing -- extending traditional Fourier analysis tools such as transforms and wavelets to handle data on irregular graph kernels -- provides new flexible computational tools to analyze and process these varied types of imaging data. Recent methods combine graph signal processing ideas with deep neural network architectures for enhanced performances, with robustness and smaller memory requirements.

The book is divided into two parts. The first is centered on the fundamentals of graph signal processing theories, including graph filtering, graph learning and graph neural networks. The second part details several imaging applications using graph signal processing tools, including image and video compression, 3D image compression, image restoration, point cloud processing, image segmentation and image classification, as well as the use of graph neural networks for image processing.

OCTOBER 2021 UnknownPP
978-1-78945-028-6 CL \$165.00 (Japan)
Image and Video Processing



エネルギー

Energy Storage

UMAKANTA SAHOO

The world's energy landscape is very complex. Fossil fuels, especially because of hydraulic fracturing, are still a mainstay of global energy production, but renewable energy sources, such as wind, solar, and others, are increasing in importance for global energy sustainability. Experts and non-experts agree that the next game-changer in this area will be energy storage.

Energy storage is crucial for continuous operation of power plants and can supplement basic power generation sources over a stand-alone system. It can enhance capacity and leads to greater security, including continuous electricity supply and other applications. A dependable energy storage system not only guarantees that the grid will not go down, but also increases efficacy and efficiency of any energy system.

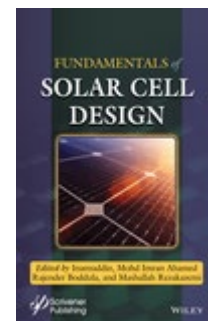
This groundbreaking new volume in this forward thinking series addresses all of these issues, laying out the latest advances and addressing the most serious current concerns in energy storage. Whether for the veteran engineer or the student, this latest volume in the series, "Advances in Renewable Energy," is a must-have for any library.

OCTOBER 2021 293PP
978-1-119-55551-3 CL \$225.00 (Japan)
Renewable Energy

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.

OCTOBER 2021 576PP
978-1-119-72470-4 CL \$225.00 (Japan)
Solar Energy & Photovoltaics

DC Microgrids

NIKITA GUPTA, MAHAJAN SAGAR BHASKAR, SANJEEVIKUMAR
PADMANABAN & DHAIFER ALMAKHLES

The electric grid is on the threshold of a paradigm shift. In the past few years, the picture of the grid has changed dramatically due to the introduction of renewable energy sources, advancements in power electronics, digitalization, and other factors. All these megatrends are pointing toward a new electrical system based on Direct Current (DC). DC power systems have inherent advantages of no harmonics, no reactive power, high efficiency, over the conventional AC power systems. Hence, DC power systems have become an emerging and promising alternative in various emerging applications, which include distributed energy sources like wind, solar and Energy Storage System (ESS); distribution networks; smart buildings, remote telecom systems; and transport electrification like electric vehicles (EVs) and shipboard.

All these applications are designed at different voltages to meet their specific requirements individually because of the lack of standardization. Thus, the factors influencing the DC voltages and system operation needed to be surveyed and analyzed, which include voltage standards, architecture for existing and emerging applications, topologies and control strategies of power electronic interfaces, fault diagnosis and design of the protection system, optimal economical operation, and system reliability.

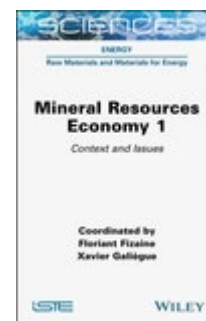
This groundbreaking new volume presents these topics and trends of DC microgrids, bridging the research gap on DC microgrid architectures, control and protection challenges to enable wide-scale implementation of energy-efficient DC microgrids. Whether for the veteran engineer or the student, this is a must-have for any library.

OCTOBER 2021 UnknownPP
978-1-119-77716-8 CL \$225.00 (Japan)
Smart Grid

Mineral Resource Economics 1

FLORIAN FIZAINE & XAVIER GALIEGUE

The constant increase in the consumption of mineral resources, as well as the growing awareness of their exploitation, is causing deep concern within the scientific community. This concern is justified by the fact that the energy transition will increase the pressure on these resources, as renewable energies require an increased and more diversified quantity of mineral materials.



This book presents an overview of the exploitation of these mineral resources, where the natural, regulatory and environmental constraints interfere with economic, financial and geopolitical interests. By mobilizing the fields of the humanities, geosciences and engineering, it also analyzes the challenges that the energy transition will encounter, challenges related to the contradictory effects that the acceleration of the extraction of these resources will have on their physical availability, the economies that exploit them and the populations that live off of them

OCTOBER 2021 UnknownPP
978-1-78945-024-8 CL \$165.00 (Japan)
Environmental Economics & Politics

地球科学

Weather For Dummies

2nd Edition

JOHN D. COX

What in the world is going on up there?

Look up! It's a bird; it's a plane; it's a Polar mesospheric cloud! When you look to the sky, do you wonder why the Sun is so bright or why the clouds are white or why the sky is blue? Then, *Weather For Dummies* is your resource to fuel your curiosity about the weather. It takes you on an exciting journey through the Earth's atmosphere and the ways it behaves. You'll get an overview of rain, Sun, clouds, storms and other phenomena.



With helpful photographs and illustrations, you can easily visualize different weather types and relate them into the world around you. The scientific words and phrases are explained in detail (what is barometric pressure?), your curious questions are answered (why do we have seasons?), and the roots of weather myths, proverbs, and sayings are revealed ("early thunder, early spring").

- Discover how weather forecasts are made, and what constitutes a weather emergency
- Find out what causes change in weather, such as how air pressure drives winds
- Learn how climate change is affecting today's weather
- Discover how light plays tricks on our eyes to create effects like rainbows, sun dogs, and halos
- Have fun with at-home weather experiments, including setting up your own weather station

Perfect for any weather amateur, you can have your head in the clouds while your feet are on the ground. Next time you're outside, take *Weather For Dummies* along with you, look at the sky, and discover something new about the environment you live in.

OCTOBER 2021 UnknownPP
978-1-119-81100-8 PB \$24.99 (Japan)
GENERAL & INTRODUCTORY EARTH SCIENCES

Iceland Within the Northern Atlantic, Volume 1

Geodynamics and Tectonics

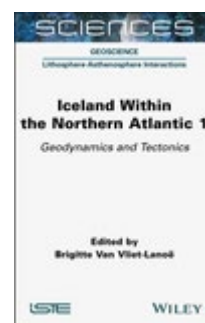
BRIGITTE VAN VLIET-LANOE

The volcanic island of Iceland is a unique geological place due both to its position in the middle of the Atlantic Ocean and its repeated glaciations. It has been an accurate recorder of geodynamic and regional climatic evolutions for at least the last 15 million years.

This book traces the history of Iceland, which is linked to the opening of the North Atlantic and the reactivation of the ancient suture of the Iapetus Ocean. It gives a view of climate evolution that is partly controlled by the dynamics of the ocean floor and analyzes the movement of the Jan Mayen tectonic plate and the progressive insularization of the Greenland--Faroe Ridge, which gave birth to Iceland. It also tries to understand the formation and migration of the deep Iceland hotspot and the lava flows that have, for millions of years, shaped this island.

This book brings together the internal and external geodynamics of our planet to understand how Iceland functions and its role as a recorder of the paleoclimatic evolution of the Northern Hemisphere.

OCTOBER 2021 UnknownPP
978-1-78945-014-9 CL \$165.00 (Japan)
Structural Geology & Tectonics



Iceland Within the Northern Atlantic, Volume 2

Volcanoes and Glaciers

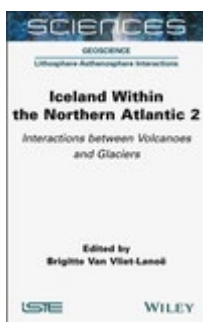
BRIGITTE VAN VLIET-LANOE

The volcanic island of Iceland is a unique geological place due both to its position in the middle of the Atlantic Ocean and its repeated glaciations. It has been an accurate recorder of geodynamic and regional climatic evolutions for at least the last 15 million years.

This book studies the Quaternary magmatism associated with the deep Iceland hotspot and, in particular, its distinctive geochemical and volcanological characteristics. It also analyzes that Arctic glacierization as it relates to the opening of the North Atlantic and the appearance of today's ocean currents. We will also investigate the Quaternary glaciation as it affected Iceland in its oceanic context, particularly on the basis of radiometric dating, looking at the formation of the Greenland and Scandinavian ice sheets and data from marine sediment. Finally, it explores the specific environmental features of the island, from the end of the last ice age to global warming today.

This book brings together the internal and external geodynamics of our planet to understand how Iceland functions and its role as a recorder of the paleoclimatic evolution of the Northern Hemisphere.

OCTOBER 2021 UnknownPP
978-1-78945-015-6 CL \$165.00 (Japan)
Structural Geology & Tectonics



Earth Observation Using Python

A Practical Programming Guide

REBEKAH B. ESMAILI

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

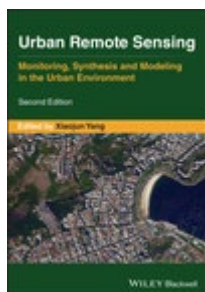
OCTOBER 2021 UnknownPP
978-1-119-60688-8 CL \$169.95 (Japan)
GIS & Remote Sensing

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.

OCTOBER 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

A fundamental knowledge of flow in open channels is essential for the planning and design of systems to manage water resources. Open channel design has applications within many fields, including civil engineering, agriculture, hydrology, geomorphology, sedimentology, environmental fluid and sediment dynamics and river engineering. *Open Channel Design: Fundamentals and Applications* covers permissible velocity, tractive force, and regime theory design methodologies and applications. Hydraulic structures for flow control and measurement are covered. Flow profiles and their design implications are covered. Sediment transport mechanics and moveable boundaries in channels are introduced. Finally, a brief treatment of the St. Venant equations and Navier-Stokes equations are introduced as topics to be explored in more advanced courses. The central goal is to prepare students for work in engineering offices where they will be involved with aspects of land development and related consulting work. Students will also be prepared for advanced courses that will involve computational fluid dynamics approaches for solving 2-d and 3-d problems in advanced graduate level courses. Offering a fresh approach, *Open Channel Design: Fundamentals and Applications* prepares students for work in engineering offices where they will be involved with aspects of land development and related consulting work. It also introduces the reader to software packages including Mathematica, HecRas and HY8, all widely used in professional settings.

OCTOBER 2021 320PP
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

Practical Risk-adjusted Performance Measurement

2nd Edition

CARL R. BACON

Risk has an undeserved reputation within asset management for being an overly complex, mathematical subject.

Practical Risk-adjusted Performance Measurement, Second Edition simplifies the subject and demonstrates with practical examples that risk is perfectly straightforward and not as complicated as it might seem. Written for risk and performance measurement practitioners from a buy side, asset management perspective, this book fills the gap between practice and theory, focusing on quantitative ex-post measures rather than the qualitative aspects of risk and providing numerous, practical worked examples of risk measures and their interpretation.

This fully updated new edition takes the opportunity to add several new measures, provide additional explanations where necessary and add six new chapters.

Chapters 12 to 16 are entirely new chapters for this edition. Chapter 12 classifies all of the ex-post risk measures and describes how they are linked in the form of a periodic table of risk measures. Chapter 13 discusses the use of risk-adjusted performance measures in the context of performance fees. Chapter 14 discusses dashboard design in the context of risk measures, Chapter 15 looks at the important subject of how appraisal measures should be used in the context of manager selection and Chapter 16 introduces the four dimensions of performance and makes the call for ex-ante risk standards.

In the penultimate Chapter 17 there is a discussion about which risk measures to use and finally in Chapter 18 their application in terms of risk control.

Risk, like beauty, is very much in the eye of the beholder -- different risk measures will suit different investment strategies or investor concerns at different times so this book does not recommend any particular risk measure. Instead, it provides the necessary information and insight to determine one's own preferences in a concise and easy-to-navigate style.

SERIES: THE WILEY FINANCE SERIES

OCTOBER 2021 256PP
978-1-119-83884-5 CL \$90.00 (Japan)
GENERAL FINANCE & INVESTMENTS

Survival Kit for an Equity Analyst

The Essentials You Must Know

SHIN HORIE

Presented in a narrative format, *Essentials of Company Analysis* begins with a chapter on the story and professional experience of veteran analyst Shin Horie, offering the reader a window into the world of an equity analyst. The book draws upon Horie's decades of professional experience as an analyst and explains why the essentials for becoming successful in the job remain the same and the challenge of equity analysis never gets old, even if the industry landscape evolves constantly. Not a financial theory nor a business textbook, it aims to be a survival/practical guide on how to excel in your job as an equity research analyst, but also offers expert tips on how to discover, analyze, forecast and evaluate public companies.

The book presents analyses on the industry level, from a global perspective and with a particular focus on making adjustments when covering emerging markets companies. It provides a method for getting a holistic and general understanding of the sector's makeup, competitive landscape and revenue and cost drivers before turning to specific companies and their place in that structure. It delves into details for specific industries to drive these points home, given that industry characteristics, growth prospects and valuation methodologies vary substantially and cannot be generalized. Key topics include:

- A background on the basic process flow of company analysis and valuation
- Industry characteristics - Provides specific tips for gathering information about a company and examining it from multiple angles
- Earnings drivers - Although most earnings drivers are company-specific and not easy to generalize, the book will provide rough guidelines of potential earnings drivers in major industries.
- Profiling companies qualitatively - The goal of this process is to show how to dig deeper to find the nuance that a simple financial statement cannot express.
- Methods for modelling companies
- Valuation

OCTOBER 2021 208PP
978-1-119-82244-8 CL \$34.95 (Japan)
General Finance & Investments

DeFi and the Future of Finance

CAMPBELL R. HARVEY, ASHWIN RAMACHANDRAN & JOEY SANTORO

During the Global Financial Crisis in 2008, our financial infrastructure failed.

Governments bailed out the very institutions that let the economy down. This episode spurred a serious rethink of our financial system. Does it make any sense that it takes two days to settle a stock transaction? Why do retailers, operating on razor thin margins, have to pay 3% for every customer credit card swipe? Why does it take two days to transfer money from a bank account to a brokerage--or any other company? Why are savings rates miniscule or negative? Why is it so difficult for entrepreneurs to get financing at traditional banks?

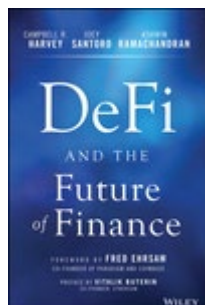
In *DeFi and the Future of Finance*, Campbell R. Harvey, Ashwin Ramachandran and Joey Santoro, introduce the new world of Decentralized Finance. The book argues that the current financial landscape is ripe for disruption and we are seeing, in real time, the reinvention of finance.

The authors provide the reader with a clear assessment of the problems with the current financial system and how DeFi solves many of these problems. The essence of DeFi is that we interact with peers--there is no brick and mortar and all of the associated costs. Savings and lending are reinvented. Trading takes place with algorithms far removed from traditional brokerages.

The book conducts a deep dive on some of the most innovative protocols such as Uniswap and Compound. Many of the companies featured in the book you might not have heard of--however, you will in the future.

As with any new technology, there are a myriad of risks and the authors carefully catalogue these risks and assess which ones can be successfully mitigated.

Ideally suited for people working in any part of the finance industry as well as financial policy makers, *DeFi and the Future of Finance* gives readers a vision of the future. The world of finance will fundamentally be changed over the coming decade. The book enables you to become part of the disruption -- not the target of the disruption.



2022 CFA Program Curriculum Level III Box Set

CFA INSTITUTE

John Wiley & Sons, Inc.

Prepare for success on the 2022 CFA Level III exam with the latest official CFA® Program Curriculum.

The *2022 CFA Program Curriculum Level III Box Set* contains all the material you need to succeed on the Level III CFA exam in 2022. This set includes the full official curriculum for Level III and is part of the larger CFA Candidate Body of Knowledge (CBOK).



Designed to acclimate you to the exam's heavy reliance on information synthesis and solution application regarding portfolio management and wealth planning, the Level III curriculum will help you master both calculation-based and word-based problems.

Highly visual and intuitively organized, this box set allows you to:

- Learn from financial thought leaders.
- Access market-relevant instruction.
- Gain critical knowledge and skills.

The set also includes practice questions to assist with your recall of key terms, concepts, and formulas.

Perfect for anyone preparing for the 2022 Level III CFA exam, the *2022 CFA Program Curriculum Level III Box Set* is a must-have resource for those seeking the advanced skills required to become a Chartered Financial Analyst®.

OCTOBER 2021 UnknownPP
978-1-950157-62-4 PB \$250.00 (Japan)
INVESTMENTS & SECURITIES

OCTOBER 2021 208PP
978-1-119-83601-8 CL \$26.95 (Japan)
Money & Banking

Advanced Portfolio Management

A Quant's Guide for Fundamental Investors

GIUSEPPE A. PALEOLOGO

You have great investment ideas. If you turn them into highly profitable portfolios, this book is for you.

Advanced Portfolio Management: A Quant's Guide for Fundamental Investors is for fundamental equity analysts and portfolio managers, present, and future. Whatever stage you are at in your career, you have valuable investment ideas but always need knowledge to turn them into money. This book will introduce you to a framework for portfolio construction and risk management that is grounded in sound theory and tested by successful fundamental portfolio managers. The emphasis is on theory relevant to fundamental portfolio managers that works in practice, enabling you to convert ideas into a strategy portfolio that is both profitable and resilient. Intuition always comes first, and this book helps to lay out simple but effective "rules of thumb" that require little effort to implement and understand. At the same time, the book shows how to implement sophisticated techniques in order to meet the challenges a successful investor faces as his or her strategy grows in size and complexity. *Advanced Portfolio Management* also contains more advanced material and a quantitative appendix, which benefit quantitative researchers who are members of fundamental teams.



Author Giuseppe A. Paleologo has consulted, collaborated, taught, and drank strong wine with some of the best stock-pickers in the world; he has traded tens of billions of dollars hedging and optimizing their books and has helped them navigate through big drawdowns and even bigger recoveries. Whether or not you have access to risk models or advanced mathematical background, you will benefit from the techniques and the insights contained in the book--and won't find them covered anywhere else.

OCTOBER 2021 208PP
978-1-119-78979-6 CL \$40.00 (Japan)
Investments & Securities

Banks and Fintech on Platform Economies

Contextual and Conscious Banking

PAOLO SIRONI

Discover the future of the financial services industry with this insightful new resource on Contextual and Conscious Banking

In *Banks and Fintech on Platform Economies: Contextual and Conscious Banking*, accomplished fintech professional and author Paolo Sironi delivers an insightful examination of how platform theory, born outside of financial services, will make its way inside banking and financial markets to radically transform the way firms do business.

You'll learn why the financial services industry must master the necessary shift of focus from selling business outputs to selling client outcomes. You'll also discover how to steer the industry towards new forms of digital transformation underpinned by Contextual Banking and Conscious Banking platform strategies that will benefit stakeholders of all kinds.

Perfect for CEOs, business leaders, regulators, fintech entrepreneurs, wealth managers, behavioral finance researchers and professionals working at financial technology companies, *Banks and Fintech on Platform Economies* will also earn a place in the libraries of bankers seeking a firm grasp of the rapidly evolving outcome economy and a view about the future of the industry.



SERIES: THE WILEY FINANCE SERIES

OCTOBER 2021 300PP
978-1-119-75697-2 CL \$37.50 (Japan)
Finance & Investments Special Topics

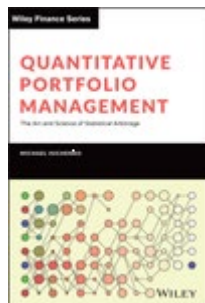
Quantitative Portfolio Management

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.

OCTOBER 2021 272PP
978-1-119-82132-8 CL \$50.00 (Japan)
Finance & Investments Special Topics

公衆衛生

Principles of Assessment and Outcome Measurement for Allied Health Professionals

Practice, Research and Development, 2nd Edition

ALISON LAVER-FAWCETT & DIANE L. COX

South Bank University, London

The revised and updated second edition of *Principles of Assessment and Outcome Measurement for Allied Health Professionals* offers an authoritative guide for allied health professionals and students. The authors, noted experts on the topic, explore the assessment process that encompasses the data collection methods, the evaluation process that determines the effectiveness of an intervention, and standardised and systematic outcome measurement procedures.



The book discusses in detail the various methods of data collection (observation, interview, standardised testing) and the types of sources (self-report, proxy, observational) for collecting information. The main purposes of assessment (descriptive, evaluative, predictive, discriminative) are also presented. The book addresses the topics of standardization, levels of measurement, reliability, validity, and clinical usefulness. The text provides the information needed to select and perform assessment and outcomes measurement to inform goal setting, evaluate outcomes, and ensure that interventions are effective, efficient, and economical in order to provide quality services to clients and their carers.

Written for allied health students and professionals, *Principles of Assessment and Outcome Measurement for Allied Health Professionals* is the essential guide to assessing, measuring, and evaluating the impact and outcome of clinical practice and interventions.

OCTOBER 2021 480PP
978-1-119-63309-9 PB \$100.00 (Japan)
OCCUPATIONAL THERAPY

ホスピタリティ

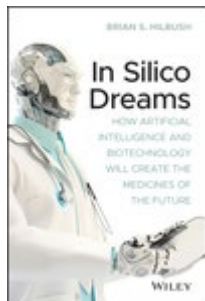
In Silico Dreams

How Artificial Intelligence and Biotechnology Will Create the Medicines of the Future

BRIAN S. HILBUSH

Learn how AI and data science are upending the worlds of biology and medicine

In Silico Dreams: How Artificial Intelligence and Biotechnology Will Create the Medicines of the Future delivers an illuminating and fresh perspective on the convergence of two powerful technologies: AI and biotech. Accomplished genomics expert, executive, and author Brian Hilbush offers readers a brilliant exploration of the most current work of pioneering tech giants and biotechnology startups who have already started disrupting healthcare. The book provides an in-depth understanding of the sources of innovation that are driving the shift in the pharmaceutical industry away from serendipitous therapeutic discovery and toward engineered medicines and curative therapies.



In this fascinating book, you'll discover:

- An overview of the rise of data science methods and the paradigm shift in biology that led to the in silico revolution
- An outline of the fundamental breakthroughs in AI and deep learning and their applications across medicine
- A compelling argument for the notion that AI and biotechnology tools will rapidly accelerate the development of therapeutics
- A summary of innovative breakthroughs in biotechnology with a focus on gene editing and cell reprogramming technologies for therapeutic development
- A guide to the startup landscape in AI in medicine, revealing where investments are poised to shape the innovation base for the pharmaceutical industry

Perfect for anyone with an interest in scientific topics and technology, *In Silico Dreams* also belongs on the bookshelves of decision-makers in a wide range of industries, including healthcare, technology, venture capital, and government.

OCTOBER 2021 336PP
978-1-119-74557-0 PB \$45.00 (Japan)
Health & Health Care Special Topics

Off-Premise Catering

How to Plan and Execute Large-Scale Catered Events

ELIZABETH BREWER

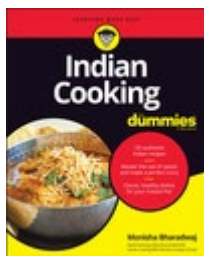
OCTOBER 2021 352PP
978-1-118-13288-3 CL \$88.95 (Japan)
Catering & Events Management

ライフスタイル

Indian Cooking For Dummies

MONISHA BHARADWAJ

An increasing number of people are now cooking Indian food at home. Although curry jar sauces are available in the market, home cooks have realized that they are often too greasy, overly spiced and full of salt; nowhere close to the real thing. *Indian Cooking For Dummies* will take readers through the steps, secrets and tips through all the regions of India of how to create a perfect, balanced Indian meal at home from scratch. All 125 recipes will offer suggestions and tips about a key ingredient or what to pair the dish with or make a meal of it. Recipes will include key elements such as rice, breads, meat, Fish and seafood, poultry, eggs, dairy, lentils and beans, vegetables, snacks and grills, salads and raitas. Plus chutneys and relishes. *Indian Cooking For Dummies* will also offer desserts, drinks, and highly popular vegetarian dishes. Eight-page color insert included.

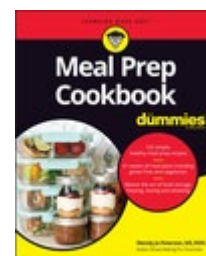


OCTOBER 2021 UnknownPP
978-1-119-79661-9 PB \$22.99 (Japan)
Cooking

Meal Prep Cookbook For Dummies

WENDY JO PETERSON, IMPERIAL BEACH, UNITED STATES

Meal Prep Cookbook For Dummies will take the uncertainty and stress out of your meals. Home chefs will discover everything from cooking basics to grocery store tips to meal prepping and planning secrets. *Meal Prep Cookbook For Dummies* will guide you through the whole process. Chefs of any skill level will discover new favorite meals, organize their kitchen, pack up their meals in proper containers, and learn new techniques to take their meal prepping/planning abilities to the next level.

**INSIDE:**

100 plus easy to follow recipes/meals in 45 minutes or less
How to meal prep for specialty diets for gluten/dairy-free, diabetics, Mediterranean keto, allergies and intolerances
Tips to spruce even the most mundane of meals (chicken breast, butter noodles, vegetables, etc.)
Meal prep snacks, lunch, and breakfasts
Sample grocery lists

OCTOBER 2021 UnknownPP
978-1-119-81498-6 PB \$22.99 (Japan)
Cooking

Haircutting For Dummies

2nd Edition

J. ELAINE SPEAR

Your short cut to stylish home hairdressing

Ever wondered if you could hack it at cutting your friends' and family's hair, or could even make it as a full-blown stylist? If you've got a little creative spark--a love of crafting or painting or a talent for home makeovers--and an obsessive yen to redo the dos you see around you, it's more than likely you can make the cut. The new edition of *Haircutting For Dummies* shows you how to draw out your inner artist and bring your ideas to glorious life on the heads of your nearest and dearest--and will help shave dollars off your beauty budget into the bargain!



In a free-spirited, chatty style, master stylist and social media corporate beauty consultant Jeryl E. Spear sits you down for a comprehensive snip-and-tell overview of how to reproduce the latest short, medium, and long hairstyles, as well as fancying things up with cutting-edge techniques like slicing, notching, and layering. Jeryl also provides a drawerful of tips on the tools you'll need to get started.

- Get a grip on men's and women's styles
- Set up shop at home
- Choose your tools and keep them sharp
- Take the first steps to embracing a beauty career

Packed with detailed illustrations and model shots to guide your work, this book has everything you need to begin the creative work of making everyone you know--and the world--a smarter, more beautiful place!

OCTOBER 2021 UnknownPP
978-1-119-79049-5 PB \$24.99 (Japan)
TECHNICAL & HOW-TO (GENERAL)

Building Your Own Home For Dummies

2nd Edition

KEVIN DAUM, NEW YORK, UNITED STATES, JANICE BREWSTER, ARLINGTON, UNITED STATES & PETER ECONOMY, LAJOLLA, UNITED STATES

Building Your Own Home For Dummies, 2nd Edition is filled with useful information on building a beautiful home on every budget. From design and construction techniques to finding an architect and reviewing floor plans, this book serves as your trusty guide. Find out how to evaluate contractor bids, and explore the ins and outs of the contractor's role. Examine construction loans in detail, learn about the financial aspects of a home as an investment, and see how to put together an accurate building budget. Follow the process from excavation and foundation to framing and finishing. And more!



Updates:

- Smart homes
- Green building
- Design/build firms
- House flipping

OCTOBER 2021 UnknownPP
978-1-119-79679-4 PB \$24.99 (Japan)
HOME IMPROVEMENT

ライフサイエンス

The Terrestrial Macroinvertebrates of the Sub-Antarctic Iles Kerguelen and Ile de la Possession

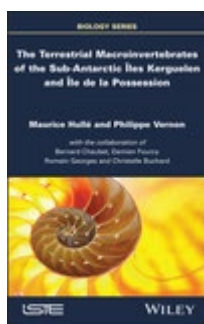
MAURICE HULLE & PHILIPPE VERNON

The sub-Antarctic islands are remote and isolated environments with original flora and fauna composed of a few species that are highly adapted to cold oceanic conditions. Their peculiar naturalness makes these ecosystems intrinsically fragile.

This book focuses on terrestrial ecosystems and, in particular, on invertebrates - earthworms, mollusks, spiders and insects - that inhabit the French sub-Antarctic islands of the South Indian Ocean. All native and introduced species are presented in the form of individual fact sheets, which include the main identification criteria, geographical distribution and principal ecological traits. Numerous summary tables, distribution maps of introduced species, and a discussion on the originality and vulnerability of this fauna are also included.

The Terrestrial Macroinvertebrates of the Sub-Antarctic Iles Kerguelen and Ile de la Possession is based on an expansive literature base, as well as on observations and photographs taken as part of a research program funded by the French Polar Institute Paul-Emile Victor (IPEV). The book also gives an important part to the history of the discoveries of the different species, as well as current conservation issues.

OCTOBER 2021 UnknownPP
978-1-78630-760-6 CL \$165.00 (Japan)
Marine Ecology



Genetic Analysis of Complex Disease

3rd Edition

BILL SCOTT & MARYLYN RITCHIE

Miami University, USA; Pennsylvania State University, USA

The Genetic Analysis of Complex Disease provides a comprehensive introduction to the various strategies, designs, and methods of analysis for the study of human complex genetic disease. Chapters present clear and easily referenced overviews of the broad range of considerations involved in genetic analysis of human complex genetic disease. This updated third edition includes a new chapter on next-generation sequencing, copy-number variants and epigenetic analysis, increased emphasis on bioinformatics tools, and a new expanded chapter on complex genetic interactions.

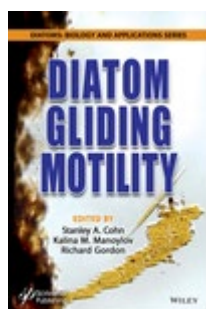
OCTOBER 2021 UnknownPP
978-1-118-12391-1 PB \$129.95 (Japan)
GENETICS

Diatom Gliding Motility

EDITOR STANLEY A. COHN, EDITOR KALINA M. MANOYLOV &
EDITOR RICHARD GORDON

Bard College, New York

The book will cover a broad range of work describing our current state of understanding on the topic, including: historic knowledge and misconceptions of motility; evolution of diatom motility; diatom ecology & physiology; cell biology and biochemistry of diatom motility, anatomy of motile diatoms; observations of diatom motile behavior; diatom competitive ability, unique forms of diatom motility as found in the genus *Eunotia*; and Models of Motility.



This volume is the first book attempting to gather such information surrounding diatom motility into one volume focusing on this single topic. Readers will be able to gather both the current state of understanding on the potential mechanisms and ecological regulators of motility, as well as possible models and approaches used to help determine how diatoms accomplish such varied behaviors as diurnal movements, accumulation into areas of light, niche partitioning to increase species success. Given the fact that diatoms remain one of the most ecologically crucial cells in aquatic ecosystems, our hope is that this volume will act as a springboard towards future research into diatom motility and even better resolution of some of the issues in motility.

OCTOBER 2021 UnknownPP
978-1-119-52635-3 CL \$249.00 (Japan)
Phycology

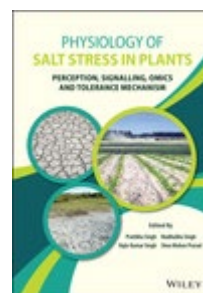
Physiology of Salt stress in Plants

Perception, Signalling, Omics and Tolerance
Mechanism

EDITOR PRATIBHA SINGH, EDITOR MADHULIKA SINGH, EDITOR
RAJIV KUMAR SINGH & EDITOR SHEO MOHAN PRASAD

**Discover how soil salinity affects plants
and other organisms and the techniques
used to remedy the issue**

In *Physiology of Salt Stress in Plants*, an editorial team of internationally renowned researchers delivers an extensive exploration of the problem of soil salinity in modern agricultural practices. It also discusses the social and environmental issues caused by salt stress. The book covers the impact of salt on soil microorganisms, crops, and other plants, and presents that information alongside examinations of salt's effects on other organisms, including aquatic fauna, terrestrial animals, and human beings.



Physiology of Salt Stress in Plants describes the morphological, anatomical, physiological, and biochemical dimensions of increasing soil salinity. It also discusses potential remedies and encourages further thought and exploration of this issue. Readers are encouraged to consider less hazardous fertilizers and pesticides, to use safer doses, and to explore and work upon salt resistant varieties of plants.

Perfect for researchers, academics, and students working and studying in the fields of agriculture, botany, entomology, biotechnology, soil science, and plant physiology, *Physiology of Salt Stress in Plants* will also earn a place on the bookshelves of agronomists, crop scientists, and plant biochemists.

OCTOBER 2021 260PP
978-1-119-70047-0 CL \$200.00 (Japan)
Plant Physiology

数学

From Euclidean to Hilbert Spaces

Introduction to Functional Analysis and its Applications

EDOARDO PROVENZI

From Euclidian to Hilbert Spaces analyzes the transition from finite dimensional Euclidian spaces to infinite-dimensional Hilbert spaces, a notion that can sometimes be difficult for non-specialists to grasp. The focus is on the parallels and differences between the properties of the finite and infinite dimensions, noting the fundamental importance of coherence between the algebraic and topological structure, which makes Hilbert spaces the infinite-dimensional objects most closely related to Euclidian spaces.

The common thread of this book is the Fourier transform, which is examined starting from the discrete Fourier transform (DFT), along with its applications in signal and image processing, passing through the Fourier series and finishing with the use of the Fourier transform to solve differential equations.

The geometric structure of Hilbert spaces and the most significant properties of bounded linear operators in these spaces are also covered extensively. The theorems are presented with detailed proofs as well as meticulously explained exercises and solutions, with the aim of illustrating the variety of applications of the theoretical results.

OCTOBER 2021 UnknownPP
978-1-78630-682-1 CL \$165.00 (Japan)
Complex & Functional Analysis

Simulation and Analysis of Mathematical Methods in Real Time Engineering Applications

T. ANANTH KUMAR, E. GOLDEN JULIE, Y. HAROLD ROBINSON
& S. M. JAISAKTHI

Written and edited by a group of renowned specialists in the field, this outstanding new volume addresses primary computational techniques for developing new technologies in soft computing. It also highlights the security, privacy, artificial intelligence, and practical approaches needed by engineers and scientists in all fields of science and technology. It highlights the current research, which is intended to advance not only mathematics but all areas of science, research, and development, and where these disciplines intersect. As the book is focused on emerging concepts in machine learning and artificial intelligence algorithmic approaches and soft computing techniques, it is an invaluable tool for researchers, academicians, data scientists, and technology developers.

The newest and most comprehensive volume in the area of mathematical methods for use in real-time engineering, this groundbreaking new work is a must-have for any engineer or scientist's library. Also useful as a textbook for the student, it is a valuable contribution to the advancement of the science, both a working handbook for the new hire or student, and a reference for the veteran engineer.

OCTOBER 2021 368PP
978-1-119-78537-8 CL \$225.00 (Japan)
Applied Mathematics in Engineering

Generalized Ordinary Differential Equations in Abstract Spaces and Applications

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

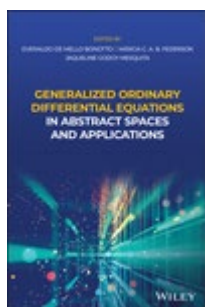
Explore a unified view of differential equations through the use of the generalized ODE from leading academics in mathematics

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.

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



An Introduction to Numerical Methods and Analysis

3rd Edition

JAMES F. EPPERSON, ANN ARBOR

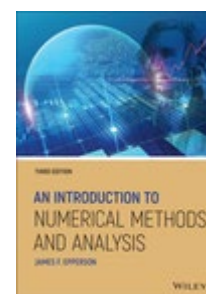
University of Alabama in Huntsville

The new edition of the popular introductory textbook on numerical approximation methods and mathematical analysis, with a unique emphasis on real-world application

An Introduction to Numerical Methods and Analysis helps students gain a solid understanding of a wide range of numerical approximation methods for solving problems of mathematical analysis. Designed for entry-level courses on the subject, this popular textbook maximizes teaching flexibility by first covering basic topics before gradually moving to more advanced material in each chapter and section. Throughout the text, students are provided clear and accessible guidance on a wide range of numerical methods and analysis techniques, including root-finding, numerical integration, interpolation, solution of systems of equations, and many others.

This fully revised third edition contains new sections on higher-order difference methods, the bisection and inertia method for computing eigenvalues of a symmetric matrix, a completely re-written section on different methods for Poisson equations, and spectral methods for higher-dimensional problems. New problem sets--ranging in difficulty from simple computations to challenging derivations and proofs--are complemented by computer programming exercises, illustrative examples, and sample code.

An Introduction to Numerical Methods and Analysis, Third Edition is the perfect textbook for upper-level undergraduate students in mathematics, science, and engineering courses, as well as for courses in the social sciences, medicine, and business with numerical methods and analysis components.



OCTOBER 2021 672PP
978-1-119-60469-3 CL \$135.00 (Japan)
Numerical Methods

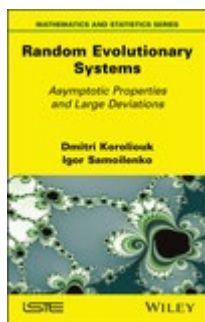
メディカル・サイエンス

Random Evolutionary Systems

Asymptotic Properties and Large Deviations

DMITRI KOROLIOUK & IGOR SAMOILENKO

Within the field of modeling complex objects in natural sciences, which considers systems that consist of a large number of interacting parts, a good tool for analyzing and fitting models is the theory of random evolutionary systems, considering their asymptotic properties and large deviations. In *Random Evolutionary Systems* we consider these systems in terms of the operators that appear in the schemes of their diffusion and the Poisson approximation. Such an approach allows us to obtain a number of limit theorems and asymptotic expansions of processes that model complex stochastic systems, both those that are autonomous and those dependent on an external random environment. In this case, various possibilities of scaling processes and their time parameters are used to obtain different limit results.



OCTOBER 2021 UnknownPP
978-1-78630-752-1 CL \$165.00 (Japan)
Mathematical Modeling

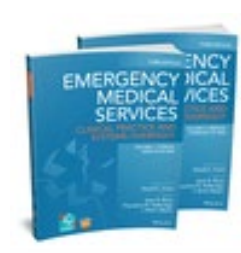
Emergency Medical Services

Clinical Practice and Systems Oversight

3rd Edition

EDITOR-IN-CHIEF DAVID CONE, EDITOR JANE H. BRICE, EDITOR
THEODORE R. DELBRIDGE & EDITOR J. BRENT MYERS

The two-volume *Emergency Medical Services: Clinical Practice and Systems Oversight* delivers a thorough foundation upon which to succeed as an EMS medical director and prepare for the NAEMSP National EMS Medical Directors Course and Practicum. Focusing on



EMS in the real world', the book offers specific management tools that will be useful in the reader's own local EMS system and provides contextual understanding of how EMS functions within the broader emergency care system at a state, local, and national level.

The two volumes offer the core knowledge trainees will need to successfully complete their training and begin their career as EMS physicians, regardless of the EMS systems in use in their areas. A companion website rounds out the book's offerings with audio and video clips of EMS best practice in action. Readers will also benefit from the inclusion of:

- A thorough introduction to the history of EMS
- An exploration of EMS airway management, including procedures and challenges, as well as how to manage ventilation, oxygenation, and breathing in patients, including cases of respiratory distress
- Practical discussions of medical problems, including the challenges posed by the undifferentiated patient, altered mental status, cardiac arrest and dysrhythmias, seizures, stroke, and allergic reactions
- An examination of EMS systems, structure, and leadership

OCTOBER 2021 1200PP
978-1-119-75624-8 PB \$165.00 (Japan)
EMERGENCY MEDICINE & TRAUMA

Vaccines For Dummies

MEGAN COFFEE, NEW YORK CITY, UNITED STATES & SHARON PERKINS, MEDFORD, UNITED STATES

All the vax facts in one trustworthy rundown

Getting a shot is a lot easier than getting sick, but what exactly are we putting in our bodies, and how did it all get started? *Vaccines For Dummies* is the simple way to clear up the confusion. Packed with the latest facts on how vaccines can conquer an army of diseases, including COVID-19, this book can help you navigate the vaccination maze. It also uncovers the reasons why vaccine hesitancy contributes to disease outbreaks. You'll find it easy to make big vaccine decisions with the help of this easy-to-understand guide.



Inside

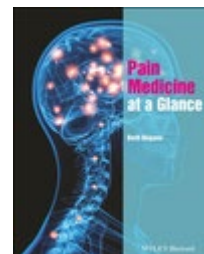
- **Get up to date on the latest science on vaccine safety and efficacy**
- **Learn how vaccines prevent diseases like polio and measles**
- **Prepare for the potential side effects of vaccines**
- **Review the childhood vaccine schedule and catch up if you're behind**

OCTOBER 2021 256PP
978-1-119-78781-5 PB \$22.99 (Japan)
General & Internal Medicine

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

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

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

機械工学

Introduction to Aerospace Engineering

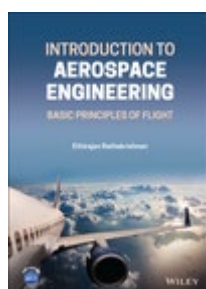
Basic Principles of Flight

ETHIRAJAN RATHAKRISHNAN

Indian Institute of Technology Kanpur, India

Provides a broad and accessible introduction to the field of aerospace engineering, ideal for semester-long courses

Aerospace engineering, the field of engineering focused on the development of aircraft and spacecraft, is taught at universities in both dedicated aerospace engineering programs as well as in wider mechanical engineering curriculums around the world-yet accessible introductory textbooks covering all essential areas of the subject are rare. Filling this significant gap in the market, *Introduction to Aerospace Engineering: Basic Principles of Flight* provides beginning students with a strong foundational knowledge of the key concepts they will further explore as they advance through their studies.



Designed to align with the curriculum of a single-semester course, this comprehensive textbook offers a student-friendly presentation that combines the theoretical and practical aspects of aerospace engineering. Clear and concise chapters cover the laws of aerodynamics, pressure, and atmospheric modeling, aircraft configurations, the forces of flight, stability and control, rockets, propulsion, and more. Detailed illustrations, well-defined equations, end-of-chapter summaries, and ample review questions throughout the text ensure students understand the core topics of aerodynamics, propulsion, flight mechanics, and aircraft performance.

Introduction to Aerospace Engineering: Basic Principles of Flight is the perfect "one stop" textbook for instructors, undergraduates, and graduate students in Introduction to Aerospace Engineering or Introduction to Flight courses in Aerospace Engineering or Mechanical Engineering programs.

OCTOBER 2021 256PP
978-1-119-80715-5 CL \$125.00 (Japan)
Aeronautic & Aerospace Engineering

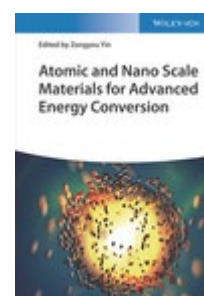
材料科学

Atomic and Nano Scale Materials for Advanced Energy Conversion

2 Volumes

EDITOR ZONGYOU YIN

This book provides the brand-new forefront nano-to-atomic scale materials science and knowledge with up-to-date information and analysis on significant application fields such as water splitting, CO₂ reduction to liquid fuels, N₂ reduction to ammonia and solar to electricity.



OCTOBER 2021 848PP
978-3-527-34892-3 CL \$375.00 (Japan)
Electronic Materials

Physics, Optics, and Spectroscopy of Materials

ZEEV BURSHTEN

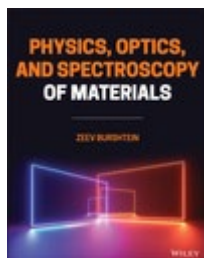
Bridges a gap that exists between optical spectroscopists and laser systems developers

Physics, Optics, and Spectroscopy of Materials provides professionals and students in materials science and engineering, optics, and spectroscopy a basic understanding and tools for stimulating current research, as well as developing and implementing new laser devices in optical spectroscopy. The author—a noted expert on that subject matter—covers a wide range of topics including: effects of light and matter interaction such as light absorption, emission and scattering by atoms and molecules; energy levels in hydrogen, hydrogen-like atoms, and many electron atoms; electronic structure of molecules, classification of vibrational and rotational motions of molecules, wave propagation and oscillations in dielectric solids, light propagation in isotropic and anisotropic solids, including frequency doubling dividing and shifting, solid materials optics, and lasers.

The book provides a basic overview of the laser and its comprising components. For example, the text describes methods for achieving fast Q-switching in laser cavities and illustrates examples of several specific laser systems used in industry and scientific research.

Written for research scientists and students in the fields of laser science and technology and materials optical spectroscopy, *Physics, Optics, and Spectroscopy of Materials* covers knowledge gaps for concepts including oscillator strength, allowed and forbidden transitions between electronic and vibrational states, Raman scattering, and group-theoretical states nomenclature.

OCTOBER 2021 544PP
978-1-119-76873-9 CL \$175.00 (Japan)
Optical and Non-Linear Optical Materials



Hybrid Perovskite Solar Cells

Characteristics and Operation

EDITOR HIROYUKI FUJIWARA

National Institute of Advanced Industrial Science & Technology, Tsukuba, Japan

Unparalleled coverage of the most vibrant research field in photovoltaics: perovskites! The handbook provides a comprehensive, tutorial-style overview of the subject area for further advancing research activities, with in-depth knowledge directly applicable in the lab.

OCTOBER 2021 712PP
978-3-527-34729-2 CL \$227.26 (Japan)
Materials for Energy Systems

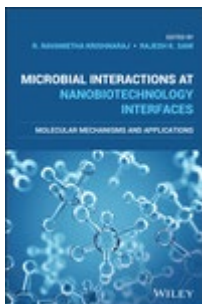
ナノテクノロジー

Microbial Interactions at Nanobiotechnology Interfaces

Molecular Mechanisms and Applications

R. NAVANIETHA KRISHNARAJ & RAJESH K. SANI

This book provides a strong foundation for researchers who want to develop functionalized nanomaterials for any biological applications in their research. Topics covered include the synthesis of nanomaterials with specific size, shape, and properties, structure-function relationships, tailoring the surface of nanomaterials for improving the properties, and the interaction of nanomaterials with proteins/microorganism/eukaryotic cells. Readers will especially benefit from learning practical concepts and techniques such as modelling nanomaterials and simulating the molecular interactions with biomolecules, transcriptomic or genomic



OCTOBER 2021 416PP
978-1-119-61719-8 CL \$195.00 (Japan)
Nanobiotechnology

ナースング

Clinical Nursing Skills at a Glance

CAROL FORDHAM-CLARKE & ANGELA M. PARRY

Clinical Nursing Skills at a Glance is the must-have study and revision guide for pre-registration nursing students and newly qualified practitioners alike, providing a visual summary of the essential aspects of clinical nursing skills and procedures. The core platforms of professional practice applicable to nursing adults in a variety of clinical settings are emphasised throughout the text, including care planning, assessment, management, prioritisation and co-ordination of care.



Designed to allow rapid reference to critical information, the book is divided into 12 sections organised around systems of the body, with each chapter describing a specific clinical skill. With high-quality images throughout, applications to practice, a review quiz, red flags' highlighting important aspects to consider in the clinical environment, and reflecting current NMC standards of proficiency for registered nurses, this new evidence-based guide:

- Allows easy access to the necessary knowledge and skills required by nurses to provide quality care
- Discusses general principles of care applicable to all, including verbal and non-verbal communication, record keeping, and admission and discharge procedures
- Covers mandatory skills such as basic life support, infection control, and medicine management
- Includes access to a companion website featuring interactive multiple-choice questions, case studies, and links to additional resources

Offering superb illustrations, up-to-date information, and a reader-friendly approach, *Clinical Nursing Skills at a Glance* is an invaluable resource for pre-registration nursing students as well as newly qualified nurses, healthcare assistants, and allied healthcare professionals looking to expand their knowledge of nursing skills and procedures.

SERIES: AT A GLANCE (NURSING AND HEALTHCARE)

OCTOBER 2021 192PP
978-1-119-03590-9 PB \$31.99 (Japan)
General Clinical Nursing

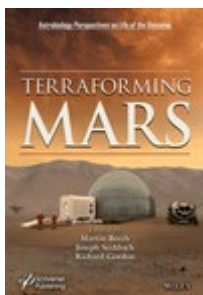
物理学

Terraforming Mars

MARTIN BEECH, JOSEPH SECKBACH & RICHARD GORDON

Bard College, New York

The idea of terraforming Mars has, in recent times, become a topic of intense scientific interest and great public debate. Stimulated in part by the contemporary imperative to begin geoengineering Earth, as a means to combat global climate change, the terraforming of Mars will work to make its presently hostile environment more suitable to life - especially human life. Geoengineering and terraforming, at their core, have the same goal - that is to enhance (or revive) the ability of a specific environment to support human life, society, and industry. The articles in this text, written by experts in their respective fields, are accordingly in resonance with the important, and on-going discussions concerning the human stewardship of global climate systems. In this sense, the text is both timely and relevant, and will cover issues relating to topics that will only grow in their relevance in future decades. The notion of terraforming Mars is not a new one, as such, and it has long played as the background narrative in many science fiction novels. This book, however, deals exclusively with what is physically possible, and what might conceivably be put into actual practice within the next several human generations.



SERIES: ASTROBIOLOGY PERSPECTIVES ON LIFE IN THE UNIVERSE

OCTOBER 2021 UnknownPP 978-1-119-76196-9 CL \$225.00 (Japan)
Astronomy & Astrophysics

Liquid Crystals

New Perspectives

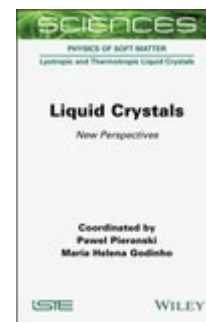
PAWEL PIERANSKI & MARIA HELENA GODINHO

This book on liquid crystals reports on the new perspectives that have been brought about by the recent expansion of frontiers and overhaul of common beliefs.

First, it explores the interaction of light with mesophases, when the light or matter is endowed with topological defects. It goes on to show how electrophoresis, electro-osmosis and the swimming of flagellated bacteria are affected by the anisotropic properties of liquid crystals.

It also reports on the recent progress in the understanding of thermomechanical and thermohydrodynamical effects in cholesterics and deformed nematics and refutes the common belief that these effects could explain Lehmann's observations of the rotation of cholesteric droplets subjected to a temperature gradient. It then studies the physics of the dowsing texture, which has remarkable properties. This is of particular interest in regards to nematic monopoles, which can easily be generated, set into motion and collided within it.

Finally, this book deals with the spontaneous emergence of chirality in nematics made of achiral molecules, and provides a brief historical context of chirality



OCTOBER 2021 UnknownPP
978-1-78945-040-8 CL \$165.00 (Japan)
Thermal Physics & Statistical Mechanics

哲学

Living as a Bird

VINCIANE DESPRET & TRANSLATED BY HELEN MORRISON

READERSHIP: Students and scholars in environmental studies, animal studies, philosophy and anthropology, and general readers interested in birds, ecology and the environment

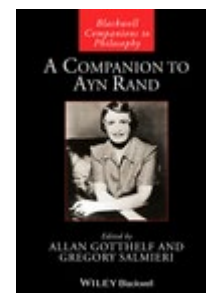
OCTOBER 2021 180PP
978-1-5095-4726-5 CL \$64.95 (Japan)
978-1-5095-4727-2 PB \$19.95 (Japan)
Continental Philosophy

**A Companion to Ayn Rand**

EDITOR ALLAN GOTTHELF & EDITOR GREGORY SALMIERI

University of Pittsburgh; University of North Carolina,
Chapel Hill

The first volume to offer a comprehensive scholarly treatment of Rand's entire corpus (including her novels, her philosophical essays, and her analysis of the events of her times), this *Companion* provides vital orientation and context for scholars and educated readers grappling with a controversial and understudied thinker whose enduring influence on American (and world) culture is increasingly recognized.



- The first publication to provide an in-depth scholarly treatment ranging over the whole of Rand's corpus
- Provides informed contextual analysis for scholars in a variety of disciplines
- Presents original research on unpublished material and drafts from the Rand archives in California
- Features insightful and fair-minded interpretations of Rand's controversial positions

SERIES: BLACKWELL COMPANIONS TO PHILOSOPHY

OCTOBER 2021 544PP
978-1-119-09902-4 PB \$45.95 (Japan)
9781405186841 CL \$45.95 (Japan), Published FEB 2016
Ethics

Philosophical Foundations of Neuroscience

2nd Edition

MAX R. BENNETT & P. M. S. HACKER

Neuroscience is a rapidly growing and ever-changing discipline, and it is more critical than ever that cognitive neuroscientists and philosophers of mind be taught to consider the conceptual questions and problems inherent in their practice. The first edition was published in 2003, and at the time of its publication, the book's critical approach prompted praise and criticism from the top minds in both fields and opened up new avenues for research in the intersection of neuroscience and philosophy. It is time for a new edition which not only introduces students and researchers to cutting-edge concepts in a more engaging and pedagogically-oriented manner, but which also addresses its own scholarly reception in view of facilitating additional debate around these issues for greatest learning impact. Max Bennett and P.M.S. Hacker will both continue as authors, and in addition to a substantial afterword which presents and refutes the most visible criticisms of their approach, revisions will focus around accessibility and analysis of developments in neuroscientific technology which have emerged in the past 15 years. A significant change will be to give greater attention to over-viewing methodology and approach to highlight the constructive (rather than critical/destructive) side of the authors' analyses. This will enable both deeper coverage on existing topics and more applicable takeaways for neuroscientists to critically and productively engage in their practice. Other areas to be highlighted in this revision include the conceptual limitations of neuroscientific explanation in reductionism, the compatibility of the volume's methods and results with non-reductive evolutionary theory, neuroscientific theories about reasoning, decision-making, value, and reward, and new material on the emotions. Tree diagrams and charts will be added for visual comprehension and increased pedagogical impact.

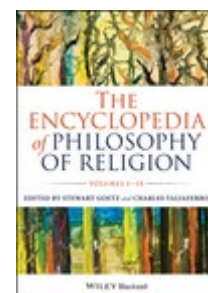
OCTOBER 2021 565PP
978-1-119-53097-8 PB \$64.95 (Japan)
Philosophy of Mind

The Encyclopedia of Philosophy of Religion

EDITOR STEWART GOETZ & EDITOR CHARLES TALIAFERRO

Ursinus College in Pennsylvania, USA; St. Olaf College

An unprecedented multi-volume reference work on philosophy of religion, providing authoritative coverage of all significant concepts, figures, and movements



Unmatched in scope and depth, the *Wiley-Blackwell Encyclopedia of Philosophy of Religion* provides readers with a well-balanced understanding of philosophical thought about the nature of Buddhism, Christianity, Hinduism, Islam, Judaism, and other religious traditions around the globe. Spanning across four comprehensive volumes, this groundbreaking resource contains hundreds of specially commissioned entries covering the key themes, thinkers, works, and ideas in the field.

Organized alphabetically, the *Encyclopedia* addresses an unmatched range of both historical and contemporary topics which reflect a diversity of theoretical and cultural perspectives. The entries encompass an extraordinary range of topics, from Aquinas and Kierkegaard, to teleological and ontological arguments, to cognitive science and psychology of religion, and many more. Each peer-reviewed entry is written by an acknowledged expert on the topic and includes short bibliographies, suggestions for further reading, and extensive cross-references.

The first work of its kind, *Wiley-Blackwell Encyclopedia of Philosophy of Religion* is an indispensable resource for scholars and advanced students in philosophy, theology, religious studies, and relevant areas of humanities and sciences at both secular universities and theological colleges and seminaries.

OCTOBER 2021 2864PP
978-1-119-01095-1 CL \$780.00 (Japan)
Philosophy of Religion

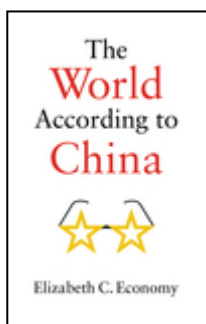
政治学

The World According to China

ELIZABETH C. ECONOMY

READERSHIP: General readers interested in current affairs as well as students of politics, international relations, economics, Chinese and East Asian studies.

OCTOBER 2021 256PP
978-1-5095-3749-5 CL \$32.50 (Japan)
Global Politics

**Deliberative Democracy**

IAN O'FLYNN

READERSHIP: Students and scholars of political theory and philosophy, especially democratic theory.

SERIES: KEY CONCEPTS IN POLITICAL THEORY

OCTOBER 2021 184PP
978-1-5095-2345-0 CL \$59.95 (Japan)
978-1-5095-2346-7 PB \$19.95 (Japan)
Political Philosophy & Theory



Marx in Movement

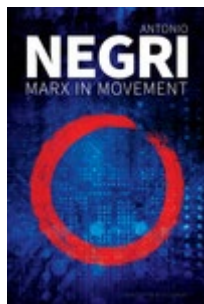
Operaismo in Context

ANTONIO NEGRI & TRANSLATED BY ED EMERY

University of Padua

READERSHIP: Students and scholars of philosophy and political theory; anyone interested in radical politics today.

OCTOBER 2021 220PP
978-1-5095-4423-3 CL \$69.95 (Japan)
978-1-5095-4424-0 PB \$24.95 (Japan)
Political Philosophy & Theory



The Populist Century

History, Theory, Critique

PIERRE ROSANVALLON & TRANSLATED BY CATHERINE PORTER

READERSHIP: Students and scholars in politics, sociology, history and the social sciences more generally; general readers concerned about the rise of populism.

OCTOBER 2021 220PP
978-1-5095-4628-2 CL \$69.95 (Japan)
978-1-5095-4629-9 PB \$24.95 (Japan)
Political Philosophy & Theory



心理学

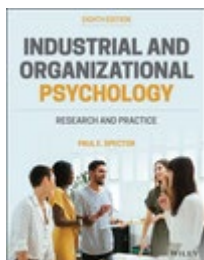
Industrial and Organizational Psychology

Research and Practice, 8th Edition

PAUL E. SPECTOR

University of South Florida

Explore the foundations of and latest developments in, industrial-organizational psychology from employee and employer perspectives



In the newly revised Eighth Edition of Industrial and Organizational Psychology: Research and Practice, distinguished researcher and psychologist Paul E. Spector delivers a robust and up-to-date review of the industrial-organizational field that covers the latest research on contemporary trends and traditional areas of the subject. The author draws on four decades of research and teaching experience, balancing employee and organizational perspectives by covering issues relating to both employee well-being and productivity.

The new edition places a special focus on how technology is affecting a variety of issues in industrial-organizational psychology, especially employee selection and training. The growing trend of gamification as it relates to employee assessment, motivation and training is discussed.

Each chapter includes a special feature that links to the author's weekly blog expanding on the topics explained within the book.

Perfect for undergraduate and graduate students studying industrial-organizational psychology. Industrial and Organizational Psychology: Research and Practice will also earn a place in the libraries of business students with an interest in organizational psychology seeking an accessible overview of the industrial-organizational field.

OCTOBER 2021 UnknownPP
978-1-119-80531-1 PB \$78.99 (Japan)
ORGANIZATIONAL & INDUSTRIAL PSYCHOLOGY

宗教

Islamicate Cosmopolitan Spirit

BRUCE B. LAWRENCE

READERSHIP: This is a book aimed at the educated general reader (particularly in North America) but, as one of the reviewers points out, it could also find a place on some mid-level undergraduate courses on the Muslim World or Islam Today.

SERIES: WILEY-BLACKWELL MANIFESTOS

OCTOBER 2021 184PP
978-1-4051-5514-4 PB \$44.95 (Japan)
Islam

セルフヘルプ

Brill Kid - The Big Number 2

Awesomeness - The Next Level

ANDY COPE, GAVIN OATTES & WILL HUSSEY

Member, District of Columbia Bar

Brill Kid - The Big Number 2: Awesomeness - The Next Level is a no-holds barred instruction manual for life, death and the one billion heartbeats in between. It transitions children to teenage-hood, instilling habits to ensure they become grown-ups, not groan-ups.



It's rock solid personal development' with a difference. A BIG difference! It's aimed at 7 to 11s, the exact age when mental habits are created. The book picks up where *Diary of a Brilliant Kid* left off -- raising the bar from mental health to mental wealth, enabling young people to flourish in a world that's hell bent on knocking them sideways.

Kids are a discerning audience. They don't want patronising and they won't tolerate being talked down to. Hence, first and foremost, the book has to be a rollicking good read. Expect fabulous fun, laugh-out-loudness and counter-intuitivity, mixed with a massive dollop of personal development.

OCTOBER 2021 224PP
978-0-85708-891-8 PB \$13.99 (Japan)
General Self-Help

Moments of Comfort

Embracing the Joy in Life's Simple Pleasures

GILL HASSON

Whether you've had a challenging day, or it's been a long week; when you need to switch off and make more time for you, you need to do what you can to make things easier and feel a little refreshed. You need small pleasures and shots of joy to strengthen and inspire you with hope.

You need *Little Moments of Comfort*!

Little Moments of Comfort offers the warmth and reassurance, hope and optimism that can motivate and encourage you. You don't have to make a big effort or big changes in order to have comfort and joy. There are so many things that can bring comfort and joy in life. This book explains what they are, and how and why they can provide you with peace, encouragement and connection.

It gives new perspectives, insights, ideas and practical advice that will help give you the strength to keep going, and will inspire you to slow down and enjoy life's cosy moments! The comfort and joy you seek is waiting, and all you need to do is find it and move into a comfort zone!

OCTOBER 2021 224PP
978-0-85708-920-5 CL \$16.99 (Japan)
Motivational

社会学

Skin

SERGIO DEL MOLINO & TRANSLATED BY THOMAS BUNSTEAD

READERSHIP: General readers; students and scholars in literature, modern languages, sociology, anthropology and the humanities generally

OCTOBER 2021 220PP
978-1-5095-4785-2 CL \$25.00 (Japan)
General Sociology



Making Sense of AI

Our Algorithmic World

ANTHONY ELLIOTT

Flinders University

READERSHIP: First-year students and above in sociology, media and communications, science and technology studies and related disciplines in the social sciences and humanities; interested general readers.

OCTOBER 2021 220PP
978-1-5095-4889-7 CL \$64.95 (Japan)
978-1-5095-4890-3 PB \$22.95 (Japan)
Sociology of Science & Technology



統計学

Item Response Theory

R. DARRELL BOCK & ROBERT D. GIBBONS

University of Illinois at Chicago

A complete discussion of fundamental and advanced topics in Item Response Theory written by pioneers in the field

In *Item Response Theory*, accomplished psychometricians Darrell Bock and Robert Gibbons deliver a comprehensive and up-to-date exploration of the theoretical foundations and applications of Item Response Theory (IRT). Covering both unidimensional and multidimensional IRT, as well as related adaptive test administration of previously calibrated item banks, the book addresses the growing need for understanding of this topic as the use of IRT spreads to other fields.



The first book on the topic that offers a complete and unified treatment of its subject, *Item Response Theory* prepares researchers and students to understand and apply IRT and multidimensional IRT to fields like education, mental health and marketing. Accessible to first year-graduate students with a foundation in the behavioral or social sciences, basic statistics, and generalized linear models, the book walks readers through everything from the logic of IRT to cutting edge applications of the technique.

Perfect for graduate students and researchers studying and working with psychometrics in psychology, quantitative psychology, educational measurement, marketing, and statistics, *Item Response Theory* will also benefit researchers interested in patient reported outcomes in health research.

OCTOBER 2021 384PP
978-1-119-71668-6 CL \$130.00 (Japan)
Probability & Mathematical Statistics

Statistical Planning and Inference

Concepts and Applications

SUBIR GHOSH

This book introduces statistical planning and inference, presenting both classical theory and the major developments in the field. Each chapter presents problems and their solutions along with illustrative examples to introduce concepts and methods, and is supported by a supplementary website featuring guidance on how to implement methods using R.

SERIES: WILEY SERIES IN PROBABILITY AND STATISTICS

OCTOBER 2021 512PP
978-1-119-96278-6 CL \$105.00 (Japan)
Experimental Design

Geostatistical Functional Data Analysis

JORGE MATEU MAHIQUES & RAMON GIRALDO

This book presents a unified approach to modelling functional data when spatial and spatio-temporal correlations are present. The editors link together for the first time the wide research areas of geostatistics and functional data analysis to provide the reader with a new area called geostatistical functional data analysis that will bring new insights and new open questions to researchers coming from both scientific fields.

Leading experts in the field, the Editors have put together a collection of chapters covering state-of-the-art methods in this area. The individual chapters combine formal statements of the results including mathematical proofs with informal and naïve statements of classical and new results. This book serves the scientific community to know what has been done so far, and to know what type of open questions need of future answers.

The information here allows the reader not only to fully understand kriging methods, but to use the most innovative functional methods adapted to spatially correlated functions, to deal with spatio-temporal datasets from a functional perspective, and to being able to handle massive databases from a more computational perspective. This book provides a complete an up-to-date account to deal with functional data that is spatially correlated, but also includes the most innovative developments in different open avenues in this field.

SERIES: WILEY SERIES IN PROBABILITY AND STATISTICS

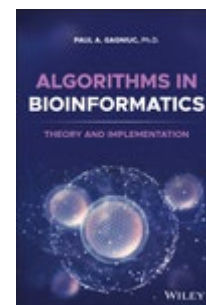
OCTOBER 2021 300PP
978-1-119-38784-8 CL \$120.00 (Japan)
Environmental Statistics & Environmetrics

Algorithms in Bioinformatics

Theory and Implementation

PAULA A. GAGNIUC

Algorithms in Bioinformatics: Theory and Implementation is a concise yet comprehensive textbook of bioinformatics which describes some of the main algorithms that are used to elucidate biological functions and relationships. This unique guide to *Algorithms in Bioinformatics* approaches the subject along the four convergent lines of mathematics, implementation, simulation, experimentation, and can be ideal for upper-undergraduate bioinformatics courses, researchers, doctoral students, and sociologists or engineers charged with data analysis. This work first begins with a general introduction to biology, which is meant to bring a more concrete understanding of the molecular processes concerning the field of Bioinformatics. Following this introduction, an in-detail look is made to subjects like sequence alignment, forced alignment, detection of motifs, sequence logos, markov chains or information entropy. Other novel approaches are also described, such as self-sequence alignment, objective digital stains (ODSs) or spectral forecast and the discrete probability detector (DPD) algorithm. This work also contains thorough step-by-step explanations regarding the meaning of the background models in bioinformatics from several angles. More importantly, it introduces the readers to the art of algorithms; shows how to design computer implementations, and provides extensive worked examples with detailed case studies. The implementations presented here, point out how native programming in javascript can broaden the horizons of possibilities in bioinformatics by considering the might of modern Internet browsers. Graphical illustrations are used for technical details on computational algorithms to aid an in-depth understanding of their innerworkings. Moreover, this work brings to the reader attention more than 100 open source implementations and 33 powerpoint presentations.



OCTOBER 2021 528PP
978-1-119-69796-1 CL \$135.00 (Japan)
Data Analysis

Building a Modern Data Platform

Pursuit of Modern Big Data Systems

YUSUF AYTAŞ

DESIGNING BIG DATA PLATFORMS

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. *Designing Big Data Platforms* 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 software engineer with a vast amount of big data experience, 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.

Designing Big Data Platforms: How to Use, Deploy, and Maintain 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.



OCTOBER 2021 336PP
978-1-119-69092-4 CL \$135.00 (Japan)
Data Analysis

Statistical Methods for Reliability Data

2nd Edition

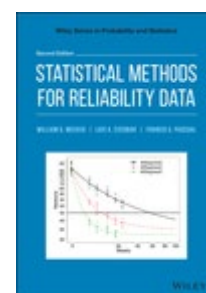
WILLIAM Q. MEEKER, LUIS A. ESCOBAR & FRANCIS G. PASCUAL

Iowa State University, Ames; Louisiana State University ;
Washington State University

An authoritative guide to the most recent advances in statistical methods for quantifying reliability

Statistical Methods for Reliability Data, Second Edition (SMRD2) is an essential guide to the most widely used and recently developed statistical methods for reliability data analysis and reliability test planning. Written by three experts in the area, SMRD2 updates and extends the long-established statistical techniques and shows how to apply powerful graphical, numerical, and simulation-based methods to a range of applications in reliability. SMRD2 is a comprehensive resource that describes maximum likelihood and Bayesian methods for solving practical problems that arise in product reliability and similar areas of application. This text illustrates methods with numerous applications and all the data sets are available on the book's website. Also, SMRD2 contains an extensive collection of exercises that will enhance its use as a course textbook.

Written for engineers and statisticians in industry and academia, *Statistical Methods for Reliability Data, Second Edition* includes access to a companion website with valuable resources, including R packages, Stan model codes, presentation slides, technical notes, information about commercial software for reliability data analysis, and csv files for the data sets used in the book's examples and exercises.



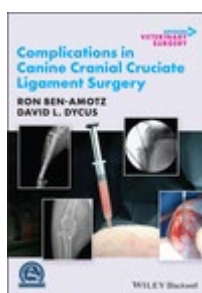
SERIES: WILEY SERIES IN PROBABILITY AND STATISTICS

OCTOBER 2021 UnknownPP
978-1-118-11545-9 CL \$135.00 (Japan)
QUALITY, PRODUCTIVITY & RELIABILITY

Complications in Canine Cranial Cruciate Ligament Surgery

RON BEN-AMOTZ & DAVID L. DYCUS

Filling a gap in the current literature, *Complications in Canine Cranial Cruciate Ligament Surgery* provides revision strategies for correcting the complications associated with surgical repair techniques for cranial cruciate ligament rupture, one of the most common causes of a hind limb lameness in dogs. Presenting step-by-step instructions for numerous surgical correction techniques, this practical guide covers articular, extra-articular and osteotomy repair techniques as well as non-surgical management, physical rehabilitation, clinical decision making, and more.



The book begins with an overview of cranial cruciate ligament tear, diagnosis, and treatment goals, followed by a discussion of methods for minimizing surgical site infection and complications. Subsequent chapters describe the potential complications of a particular technique and explain how to identify, evaluate, and correct the complication. Throughout the book, hundreds of high-quality clinical photographs show the appearance of complications and demonstrate each step of the corrective procedure.

Part of the state-of-the-art *Advances in Veterinary Surgery* series, *Complications in Canine Cranial Cruciate Ligament Surgery* is an invaluable resource for surgical residents, veterinary surgeons, and general practice veterinarians alike.

SERIES: AVS ADVANCES IN VETERINARY SURGERY

OCTOBER 2021 UnknownPP
978-1-119-65437-7 CL \$199.99 (Japan)
Veterinary Surgery, Orthopedics & Trauma

Author Index

Agnello, S. , Spectroscopy for Materials Characterization	17
Al-Ani, M. , Practical Procedures in Dental Occlusion	29
Aytas, Y. , Building a Modern Data Platform	74
Bacon, C. , Practical Risk-adjusted Performance Measurement	48
Bean, R. , Fail Fast, Learn Faster	11
Beech, M. , Terraforming Mars	64
Ben-Amotz, R. , Complications in Canine Cranial Cruciate Ligament Surgery	75
Bennett, M. , Philosophical Foundations of Neuroscience	66
Benson, H. , Fundamentals of Drug Delivery	19
Bharadwaj, M. , Indian Cooking For Dummies	53
Bhargava, N. , Artificial Intelligence and Data Mining Approaches in Security Frameworks	37
Blount, J. , Business Outcome Selling Strategies	14
Bock, R. , Item Response Theory	72
Bonotto, E. , Generalized Ordinary Differential Equations in Abstract Spaces and Applications	58
Brevini, B. , Is AI Good for the Planet?	26
Brewer, E. , Off-Premise Catering	52
Burshtein, Z. , Physics, Optics, and Spectroscopy of Materials	62
Buznic-Bourgeacq, P. , Devolution and Autonomy in Education	35
Carlson, E. , Salivary Gland Pathology	30
CFA Institute , 2022 CFA Program Curriculum Level III Box Set	49
Chandrasekaran, E. , Fuzzy Intelligent Systems	25
Cheng, F. , Industry 4.1	40
Cheung, G. , Graph Spectral Image Processing	42
Chew, D. , Wireless Coexistence	38
Ching, F. , Building Codes Illustrated	9
Coffee, M. , Vaccines For Dummies	60
Cohn, S. , Diatom Gliding Motility	56
Cone, D. , Emergency Medical Services	59
Cope, A. , Brill Kid - The Big Number 2	70
Cox, J. , Weather For Dummies	45
Dapena-Baron, M. , Focused Choices Limitless Growth	13
Dash, S. , Biomedical Data Mining for Information Retrieval	24
Daum, K. , Building Your Own Home For Dummies	54
del Molino, S. , Skin	71
DeLisi, R. , Digital Customer Service	10
Despret, V. , Living as a Bird	65
Dietrich, S. , Understanding Databases	23
Economy, E. , The World According to China	67
Elliott, A. , Making Sense of AI	71
England, D. , An Effective Strategy for Safe Design in Engineering and Construction	15
Epperson, J. , An Introduction to Numerical Methods and Analysis	58
Ernst & Sohn , Models for financing, cost and risk assessment of major railway tunnel projects in Europe	16
Esmaili, R. , Earth Observation Using Python	46
Fellows, R. , Research Methods for Construction	16
Fizaine, F. , Mineral Resource Economics 1	44
Fordham-Clarke, C. , Clinical Nursing Skills at a Glance	63
Fujiwara, H. , Hybrid Perovskite Solar Cells	62
Gabriele, B. , Carbon Monoxide in Organic Synthesis	19
Gagniuc, P. , Algorithms in Bioinformatics	73
Ghosh, S. , Statistical Planning and Inference	72
Goetz, S. , The Encyclopedia of Philosophy of Religion	66
Gotthelf, A. , A Companion to Ayn Rand	65
Greene, R. , Lost and Found	33
Guo, Y. , Advanced Antenna Array Engineering for 6G and Beyond Wireless Communications	36

Gupta, N. , DC Microgrids.....	44
Hardin, T. , Concepts and Semantics of Programming Languages 2.....	23
Harvey, C. , DeFi and the Future of Finance.....	49
Hasson, G. , Moments of Comfort.....	70
Heckmann, O. , Future Urban Habitation.....	10
Hilbush, B. , In Silico Dreams.....	52
Ho, C. , Practical Procedures in Implant Dentistry.....	31
Hogans, B. , Pain Medicine at a Glance.....	60
Holuszko, M. , Electronic Waste.....	18
Horie, S. , Survival Kit for an Equity Analyst.....	48
Hulle, M. , The Terrestrial Macroinvertebrates of the Sub-Antarctic Iles Kerguelen and Ile de la Possession.....	55
Inamuddin , Fundamentals of Solar Cell Design.....	43
Isichenko, M. , Quantitative Portfolio Management.....	51
Jackson, J. , Corporate Cybersecurity.....	27
Kamhoua, C. , Game Theory and Machine Learning for Cyber Security.....	37
Koroliouk, D. , Random Evolutionary Systems.....	59
Krishnaraj, R. , Microbial Interactions at Nanobiotechnology Interfaces.....	63
Kumar, T. , Simulation and Analysis of Mathematical Methods in Real Time Engineering Applications.....	57
Lang, J. , Small Teaching.....	34
Launay, F. , NG-RAN and 5G-NR.....	39
Laver-Fawcett, A. , Principles of Assessment and Outcome Measurement for Allied Health Professionals.....	51
Lawrence, B. , Islamicate Cosmopolitan Spirit.....	69
LeBlanc, G. , Who's In My Classroom?.....	34
Levi-Strauss, C. , Structural Anthropology Zero.....	8
Li, A. , Transporters and Drug-Metabolizing Enzymes in Drug Toxicity.....	20
Lian, R. , Harmonic Modeling of Voltage Source Converters using Basic Numerical Methods.....	41
Liu, A. , Artificial Intelligence Hardware Design.....	24
Luna, T. , The Leader Lab.....	12
Majumdar, N. , A Companion to Indian Cinema.....	29
Mateu Mahiques, J. , Geostatistical Functional Data Analysis.....	73
Mazumdar, P. , Manual of Laboratory Testing Methods for Dental Restorative Materials.....	31
McEvoy, L. , Epidemic Leadership.....	11
McFedries, P. , Alexa For Dummies.....	35
McManus, S. , Raspberry Pi For Dummies.....	22
Meeker, W. , Statistical Methods for Reliability Data.....	74
Melander, M. , Atomic-Scale Modelling of Electrochemical Systems.....	21
Mo, H. , Cyber-Physical Distributed Systems.....	38
Movassaghi, M. , Organic Syntheses.....	21
Naini, F. , Preadjusted Edgewise Fixed Orthodontic Appliances.....	32
Negri, A. , Marx in Movement.....	68
Nichols, K. , The Physician's Roadmap.....	12
O'Flynn, I. , Deliberative Democracy.....	67
Ozaki, Y. , Spectroscopic Techniques for Polymer Characterization.....	17
Paleologo, G. , Advanced Portfolio Management.....	50
Pedneault, S. , Managing Client Emotions in Forensic Accounting and Fraud Investigation.....	8
Peterson, W. , Meal Prep Cookbook For Dummies.....	53
Pieranski, P. , Liquid Crystals.....	64
Prabhu, S. , Handbook of Oral Pathology and Oral Medicine.....	30
Provenzi, E. , From Euclidean to Hilbert Spaces.....	57
Ranjan, P. , Next-Generation Antennas.....	36
Rathakrishnan, E. , Introduction to Aerospace Engineering.....	61
Reynolds, M. , The Art of Attack.....	26
Rogers, A. , Emotionally Naked.....	33
Rosanvallon, P. , The Populist Century.....	68
Sahoo, U. , Energy Storage.....	43
Sanei, S. , EEG Signal Processing and Machine Learning.....	42
Scott, B. , Genetic Analysis of Complex Disease.....	55

Shi, W. , Understanding and Managing Strategic Governance	13
Singh, P. , Physiology of Salt stress in Plants.....	56
Sironi, P. , Banks and Fintech on Platform Economies	50
Soumahoro, M. , Black is the Journey, Africana the Name	28
Spear, J. , Haircutting For Dummies	54
Spector, P. , Industrial and Organizational Psychology.....	69
Suresh, A. , Sensor Data Analysis and Management.....	41
Tollner, E. , Open Channel Design	47
Tyagi, A. , Computational Analysis and Deep Learning for Medical Care.....	25
Vague, R. , The Case for a Debt Jubilee.....	32
Van Vliet-Lanoe, B. , Iceland Within the Northern Atlantic, Volume 1.....	45
Van Vliet-Lanoe, B. , Iceland Within the Northern Atlantic, Volume 2.....	46
Venturini, T. , Controversy Mapping	27
Vlassopoulos, K. , Greek and Roman Slavery	28
Wilson, D. , Evidence and Procedures for Boundary Location.....	15
Woods, A. , Hiring for Diversity	14
Yang, X. , Urban Remote Sensing.....	47
Yim, D. , Production Urbanism	9
Yin, Z. , Atomic and Nano Scale Materials for Advanced Energy Conversion.....	61
Yu, W. , Human-Robot Interaction Control Using Reinforcement Learning.....	39
Zelizer, B. , The Journalism Manifesto	22
Zhang, A. , Mass Spectrometry-Based Metabolomics in Clinical and Herbal Medicines	18
Zhu, H. , E-CARGO and Role-Based Collaboration	40

Subject Index

Accounting Special Topics

Pedneault, Managing Client Emotions in Forensic Accounting and Fraud Investigation, 1-119-47149-48

Aeronautic & Aerospace Engineering

Rathakrishnan, Introduction to Aerospace Engineering, 1-119-80715-861

Ancient & Classical Studies

Vlassopoulos, Greek and Roman Slavery, 1-118-96929-428

Antennas & Propagation

Guo, Advanced Antenna Array Engineering for 6G and Beyond Wireless Communications, 1-119-71290-436

Ranjan, Next-Generation Antennas, 1-119-79186-336

Applied Mathematics in Engineering

Kumar, Simulation and Analysis of Mathematical Methods in Real Time Engineering Applications, 1-119-78537-557

Artificial Intelligence

Brevini, Is AI Good for the Planet?, 1-5095-4794-026

Chandrasekaran, Fuzzy Intelligent Systems, 1-119-76045-325

Liu, Artificial Intelligence Hardware Design, 1-119-81045-024

Tyagi, Computational Analysis and Deep Learning for Medical Care, 1-119-78572-325

Astronomy & Astrophysics

Beech, Terraforming Mars, 1-119-76196-464

Building Design

Ching, Building Codes Illustrated, 1-119-77240-09

Yim, Production Urbanism, 1-119-71770-19

Business & Society

Blount, Business Outcome Selling Strategies, 1-119-58488-414

Business Technology

Bean, Fail Fast, Learn Faster, 1-119-80622-411

DeLisi, Digital Customer Service, 1-119-84190-910

Catalysis

Gabriele, Carbon Monoxide in Organic Synthesis, 3-527-34795-X19

Catering & Events Management

Brewer, Off-Premise Catering, 1-118-13288-252

Communication System Security

Bhargava, Artificial Intelligence and Data Mining Approaches in Security Frameworks, 1-119-76040-237

Kamhoua, Game Theory and Machine Learning for Cyber Security, 1-119-72392-237

Communication Technology

McFedries, Alexa For Dummies, 1-119-82208-435

Communication Technology - Networks

Launay, NG-RAN and 5G-NR, 1-78630-628-X39

Mo, Cyber-Physical Distributed Systems, 1-119-68267-338

Complex & Functional Analysis

Provenzi, From Euclidean to Hilbert Spaces, 1-78630-682-457

Computer Hardware (general)

McManus, Raspberry Pi For Dummies, 1-119-79682-222

Computer Security & Cryptography

Jackson, Corporate Cybersecurity, 1-119-78252-X27

Reynolds, The Art of Attack, 1-119-80546-526

Construction Management

England, An Effective Strategy for Safe Design in Engineering and Construction, 1-119-83203-915

Fellows, Research Methods for Construction, 1-119-81473-116

Continental Philosophy

Despret, Living as a Bird, 1-5095-4726-665

Control Systems Technology

Yu, Human-Robot Interaction Control Using Reinforcement Learning, 1-119-78274-039

Cooking

Bharadwaj, Indian Cooking For Dummies, 1-119-79661-X53

Peterson, Meal Prep Cookbook For Dummies, 1-119-81498-7	53
Corporate Governance	
Shi, Understanding and Managing Strategic Governance, 1-119-79825-6	13
Data Analysis	
Aytas, Building a Modern Data Platform, 1-119-69092-7	74
Gagniuc, Algorithms in Bioinformatics, 1-119-69796-4	73
Data Mining & Knowledge Discovery	
Dash, Biomedical Data Mining for Information Retrieval, 1-119-71124-X	24
Database & Data Warehousing Technologies	
Dietrich, Understanding Databases, 1-119-58064-1	23
Dental Technology & Materials Science	
Mazumdar, Manual of Laboratory Testing Methods for Dental Restorative Materials, 1-119-68799-3	31
Differential Equations	
Bonotto, Generalized Ordinary Differential Equations in Abstract Spaces and Applications, 1-119-65493-9	58
Digital Culture & the Information Age	
Venturini, Controversy Mapping, 1-5095-4450-X	27
Drug Formulation & Delivery	
Benson, Fundamentals of Drug Delivery, 1-119-76960-4	19
Education Special Topics	
Buznic-Bourgeacq, Devolution and Autonomy in Education, 1-78630-698-0	35
Electrochemistry	
Melander, Atomic-Scale Modelling of Electrochemical Systems, 1-119-60561-X	21
Electronic Materials	
Yin, Atomic and Nano Scale Materials for Advanced Energy Conversion, 3-527-34892-1	61
Emergency Medicine & Trauma	
Cone, Emergency Medical Services, 1-119-75624-3	59
Environmental Economics & Politics	
Fizaine, Mineral Resource Economics 1, 1-78945-024-1	44
Environmental Statistics & Environmetrics	
Mateu Mahiques, Geostatistical Functional Data Analysis, 1-119-38784-1	73
Ethics	
Gotthelf, A Companion to Ayn Rand, 1-119-09902-1	65
Experimental Design	
Ghosh, Statistical Planning and Inference, 1-119-96278-1	72
Film Studies	
Majumdar, A Companion to Indian Cinema, 1-119-04819-2	29
Finance & Investments Special Topics	
Isichenko, Quantitative Portfolio Management, 1-119-82132-0	51
Sironi, Banks and Fintech on Platform Economies, 1-119-75697-9	50
Fluvial Hydrology & Limnology	
Tollner, Open Channel Design, 1-119-66424-1	47
General & Internal Medicine	
Coffee, Vaccines For Dummies, 1-119-78781-5	60
General & Introductory Earth Sciences	
Cox, Weather For Dummies, 1-119-81100-7	45
General Clinical Nursing	
Fordham-Clarke, Clinical Nursing Skills at a Glance, 1-119-03590-2	63
General Dentistry	
Al-Ani, Practical Procedures in Dental Occlusion, 1-119-67851-X	29
General Finance & Investments	
Bacon, Practical Risk-adjusted Performance Measurement, 1-119-83884-3	48
Horie, Survival Kit for an Equity Analyst, 1-119-82244-0	48
General Self-Help	
Cope, Brill Kid - The Big Number 2, 0-85708-891-2	70
General Sociology	
del Molino, Skin, 1-5095-4785-1	71
Genetics	

Scott, Genetic Analysis of Complex Disease, 1-118-12391-3	55
GIS & Remote Sensing	
Esmaili, Earth Observation Using Python, 1-119-60688-8	46
Yang, Urban Remote Sensing, 1-119-62584-X	47
Global Politics	
Economy, The World According to China, 1-5095-3749-X	67
Health & Health Care Special Topics	
Hilbush, In Silico Dreams, 1-119-74557-8	52
Home Improvement	
Daum, Building Your Own Home For Dummies, 1-119-79679-2	54
Housing	
Heckmann, Future Urban Habitation, 1-119-73485-1	10
Image and Video Processing	
Cheung, Graph Spectral Image Processing, 1-78945-028-4	42
Implant Dentistry	
Ho, Practical Procedures in Implant Dentistry, 1-119-39917-3	31
Industrial Chemistry	
Holuszko, Electronic Waste, 3-527-34490-X	18
Investments & Securities	
CFA Institute, 2022 CFA Program Curriculum Level III Box Set, 1-950157-62-8	49
Paleologo, Advanced Portfolio Management, 1-119-78979-6	50
Islam	
Lawrence, Islamicate Cosmopolitan Spirit, 1-4051-5514-0	69
Journalism	
Zelizer, The Journalism Manifesto, 1-5095-4263-9	22
K-12 General	
Greene, Lost and Found, 1-119-81357-3	33
Rogers, Emotionally Naked, 1-119-75830-0	33
Management / Leadership	
Luna, The Leader Lab, 1-119-79331-9	12
McEvoy, Epidemic Leadership, 1-119-78745-9	11
Nichols, The Physician's Roadmap, 1-119-81754-4	12
Management / Teams	
Dapena-Baron, Focused Choices Limitless Growth, 1-119-71206-8	13
Marine Ecology	
Hulle, The Terrestrial Macroinvertebrates of the Sub-Antarctic Iles Kerguelen and Ile de la Possession, 1-78630-760-X	55
Mass Spectrometry	
Zhang, Mass Spectrometry-Based Metabolomics in Clinical and Herbal Medicines, 3-527-34991-X	18
Materials for Energy Systems	
Fujiwara, Hybrid Perovskite Solar Cells, 3-527-34729-1	62
Mathematical Modeling	
Koroliouk, Random Evolutionary Systems, 1-78630-752-9	59
Medical Education	
Hogans, Pain Medicine at a Glance, 1-118-83766-5	60
Methods - Synthesis & Techniques	
Movassaghi, Organic Syntheses, 1-119-81665-3	21
Mobile & Wireless Communications	
Chew, Wireless Coexistence, 1-119-58418-3	38
Money & Banking	
Harvey, DeFi and the Future of Finance, 1-119-83601-8	49
Motivational	
Hasson, Moments of Comfort, 0-85708-920-X	70
Nanobiotechnology	
Krishnaraj, Microbial Interactions at Nanobiotechnology Interfaces, 1-119-61719-7	63
Numerical Methods	
Epperson, An Introduction to Numerical Methods and Analysis, 1-119-60469-9	58
Occupational Therapy	

Laver-Fawcett, Principles of Assessment and Outcome Measurement for Allied Health Professionals, 1-119-63309-5	51
Optical and Non-Linear Optical Materials	
Burshtein, Physics, Optics, and Spectroscopy of Materials, 1-119-76873-X	62
Oral & Maxillofacial Surgery	
Carlson, Salivary Gland Pathology, 1-119-73018-X	30
Oral Pathology	
Prabhu, Handbook of Oral Pathology and Oral Medicine, 1-119-78112-4	30
Organic Chemistry	
Balcı	20
Organizational & Industrial Psychology	
Spector, Industrial and Organizational Psychology, 1-119-80531-7	69
Orthodontics	
Naini, Preadjusted Edgewise Fixed Orthodontic Appliances, 1-118-81769-9	32
Philosophy of Mind	
Bennett, Philosophical Foundations of Neuroscience, 1-119-53097-0	66
Philosophy of Religion	
Goetz, The Encyclopedia of Philosophy of Religion, 1-119-01095-0	66
Phycology	
Cohn, Diatom Gliding Motility, 1-119-52635-3	56
Plant Physiology	
Singh, Physiology of Salt stress in Plants, 1-119-70047-7	56
Political Economics	
Vague, The Case for a Debt Jubilee, 1-5095-4872-6	32
Political Philosophy & Theory	
Negri, Marx in Movement, 1-5095-4423-2	68
O'Flynn, Deliberative Democracy, 1-5095-2345-6	67
Rosanvallon, The Populist Century, 1-5095-4628-6	68
Power Electronics	
Lian, Harmonic Modeling of Voltage Source Converters using Basic Numerical Methods, 1-119-52713-9	41
Probability & Mathematical Statistics	
Bock, Item Response Theory, 1-119-71668-3	72
Programming & Software Development	
Hardin, Concepts and Semantics of Programming Languages 2, 1-78630-602-6	23
Quality, Productivity & Reliability	
Meeker, Statistical Methods for Reliability Data, 1-118-11545-7	74
Race & Ethnicity Studies	
Soumahoro, Black is the Journey, Africana the Name, 1-5095-4832-7	28
Renewable Energy	
Sahoo, Energy Storage, 1-119-55551-5	43
Sensors, Instrumentation & Measurement	
Suresh, Sensor Data Analysis and Management, 1-119-68242-8	41
Signal Processing	
Sanei, EEG Signal Processing and Machine Learning, 1-119-38694-2	42
Smart Grid	
Gupta, DC Microgrids, 1-119-77716-X	44
Social & Cultural Anthropology	
Levi-Strauss, Structural Anthropology Zero, 1-5095-4497-6	8
Sociology of Science & Technology	
Elliott, Making Sense of AI, 1-5095-4889-0	71
Solar Energy & Photovoltaics	
Inamuddin, Fundamentals of Solar Cell Design, 1-119-72470-8	43
Spectroscopy	
Agnello, Spectroscopy for Materials Characterization, 1-119-69732-8	17
Ozaki, Spectroscopic Techniques for Polymer Characterization, 3-527-34833-6	17
Structural Geology & Tectonics	
Van Vliet-Lanoe, Iceland Within the Northern Atlantic, Volume 1, 1-78945-014-4	45
Van Vliet-Lanoe, Iceland Within the Northern Atlantic, Volume 2, 1-78945-015-2	46

Surveying	
Wilson, Evidence and Procedures for Boundary Location, 1-119-71939-9.....	15
Systems Engineering & Management	
Cheng, Industry 4.1, 1-119-73989-6.....	40
Zhu, E-CARGO and Role-Based Collaboration, 1-119-69306-3.....	40
Teacher Education (K-12)	
LeBlanc, Who's In My Classroom?, 1-119-82413-3.....	34
Teaching & Learning (Higher Education)	
Lang, Small Teaching, 1-119-75554-9.....	34
Technical & How-To (general)	
Spear, Haircutting For Dummies, 1-119-79049-2.....	54
Thermal Physics & Statistical Mechanics	
Pieranski, Liquid Crystals, 1-78945-040-3.....	64
Toxicology	
Li, Transporters and Drug-Metabolizing Enzymes in Drug Toxicity, 1-119-17084-2.....	20
Training & Human Resource Development / Diversity	
Woods, Hiring for Diversity, 1-119-80090-0.....	14
Tunnel Construction	
Ernst & Sohn, Models for financing, cost and risk assessment of major railway tunnel projects in Europe, 3-433-03315-3.....	16
Veterinary Surgery, Orthopedics & Trauma	
Ben-Amotz , Complications in Canine Cranial Cruciate Ligament Surgery, 1-119-65437-8.....	75