

JAPAN PREVIEW

August 2021



WILEY

PICK OF THE MONTH ~ 今月のお勧めタイトル**Modern Trends in Structural and Solid Mechanics 1 - 3**

構造力学・固体力学の最新動向

EDITOR NOEL CHALLAMEL, EDITOR JULIUS KAPLUNOV & EDITOR IZURU TAKEWAKI

Kyoto University, Japan

→P25, 26

Analysis of Enzyme Reaction Kinetics

酵素反応速度の解析

F. XAVIER MALCATA

Instituto Superior da Maia

→P27

Detection and Analysis of SARS Coronavirus

SARSコロナウイルスの検出と解析

EDITOR CHAUDHERY MUSTANSAR HUSSAIN & EDITOR SUDHEESH K. SHUKLA

→P28

A Companion to Greek Warfare

ギリシア戦争必携

EDITOR WALDEMAR HECKEL, EDITOR F. S. NAIDEN, EDITOR E. EDWARD GARVIN & JOHN VANDERSPOEL

University of Calgary

→P33

Bergin and Garfield's Handbook of Psychotherapy and Behavior Change, 7th Edition

バージンとガーフィールド・心理療法と行動変容のハンドブック

EDITOR MICHAEL BARKHAM, EDITOR WOLFGANG LUTZ & EDITOR LOUIS G. CASTONGUAY

→P75

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
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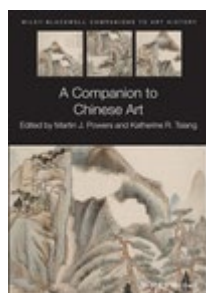
芸術

A Companion to Chinese Art

EDITOR MARTIN J. POWERS, EDITOR KATHERINE R. TSIANG &
SERIES EDITOR DANA ARNOLD

University of Michigan, USA; University of Chicago, USA;
University of Southampton

- * An exceptional collection of essays that promote a comparative understanding of China's long record of cultural production, from the earliest incarnations to the present day
- * Over two dozen newly commissioned essays written by scholars from East and West, overview the theories, genres, and media central to Chinese art throughout its history
- * Articulates the direction in which the field of Chinese art history is moving, as well as providing a roadmap for historians interested in comparative study or theory
- * Offers new and revisionist interpretations of the literati tradition, long an important staple of Chinese art history
- * Along with art history, theory and criticism, the essays provide rich insight into China's social and political institutions, religious practices, and intellectual traditions



SERIES: BLACKWELL COMPANIONS TO ART HISTORY

AUGUST 2022 584PP
978-1-119-12169-5 PB \$59.95 (Japan)
9781444339130 CL \$202.75 (Japan) Published, Dec 2015
Art History & Criticism

A Companion to Digital Art

EDITOR CHRISTIANE PAUL & SERIES EDITOR DANA ARNOLD

The New School, New York, USA; University of Southampton

- * A comprehensive theoretical survey of a fast-moving discipline
- * Edited by a highly respected expert in the field with an established background as both academic and curator
- * A definitive reference covering the very latest theoretical developments
- * Provides fresh perspectives from emerging scholars as well as contributions from leading international theorists



SERIES: BLACKWELL COMPANIONS TO ART HISTORY

AUGUST 2022 UnknownPP
978-1-119-22574-4 PB \$59.95 (Japan)
9781118475201 CL \$202.75 (Japan) Published, Apr 2016
New Media

会計学

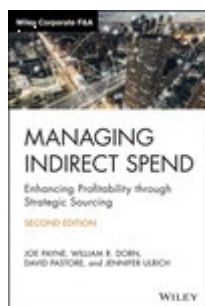
Managing Indirect Spend

Enhancing Profitability through Strategic Sourcing

2nd Edition

JOSEPH PAYNE, WILLIAM R. DORN, DAVID PASTORE & JENNIFER ULRICH

Managing Indirect Spend provides executives and procurement professionals with the knowledge and tools necessary to successfully reduce costs with a strong focus on the often-overlooked area of indirect spend. It also offers great value to those procurement and purchasing professionals aspiring to be leaders in the profession, regardless of the spend they manage. It includes an overview of the challenges faced when sourcing indirect spend categories, a detailed dive into the strategic sourcing process, tools that can help drive savings, technologies that drive efficiencies and compliance, and examples of success based on real-world experience. It is a how-to guide that clearly covers sourcing engagements of any complexity and provides the details needed to source effectively. The book is structured into sections covering the sourcing and procurement process, the tools and technologies, examples from the field, walkthroughs of specific sourcing engagements, guidance on building an effective sourcing team, and the information needed to become a best-in-class sourcing organization. Since the initial publication of this book, the procurement profession and the discipline of Strategic Sourcing have matured. Markets have changed, processes developed, trends have come and gone, and technology has experienced leaps and bounds, posing new and interesting challenges for procurement professionals. In addition to covering tried-and-true practices for strategic sourcing, this *Second Edition* discusses how strategic sourcing has evolved and provides an update on the techniques, tools, and resources available to purchasing groups.



With tools, real-world examples, and practical strategies, *Managing Indirect Spend* provides insider guidance for big bottom-line growth through effective management of indirect costs.

SERIES: WILEY CORPORATE F&A

AUGUST 2021 320PP
978-1-119-76234-8 CL \$75.00 (Japan)
CORPORATE FINANCE

農業

Biofertilizers

Study and Impact

INAMUDDIN, MOHD IMRAN AHAMED, RAJENDER BODDULA & MASHALLAH REZAKAZEMI

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

Great attention has been paid to reduce the use of conventional chemical fertilizers harming living beings through food chain supplements from the soil environment. Therefore, it is necessary to develop alternative sustainable fertilizers to enhance soil sustainability and agriculture productivity. Biofertilizers are the substance that contains microorganisms (bacteria, algae, and fungi) living or latent cells that can enrich the soil quality with nitrogen, phosphorous, potassium, organic matter, etc. They are a cost-effective, biodegradable, and renewable source of plant nutrients/supplements to improve the soil-health properties. Biofertilizers emerge as an attractive alternative to chemical fertilizers, and as a promising cost-effective technology for eco-friendly agriculture and a sustainable environment that holds microorganisms which enhance the soil nutrients' solubility leading a raise in its fertility, stimulates crop growth and healthy food safety. This book provides in-depth knowledge about history and fundamentals to advances biofertilizers, including latest reviews, challenges, and future perspectives. It covers fabrication approaches, and various types of biofertilizers and their applications in agriculture, environment, forestry and industrial sectors. Also, organic farming, quality control, quality assurance, food safety and case-studies of biofertilizers are briefly discussed. Biofertilizers' physical properties, affecting factors, impact, and industry profiles in the market are well addressed. This book is an essential guide for farmers, agrochemists, environmental engineers, scientists, students, and faculty who would like to understand the science behind the sustainable fertilizers, soil chemistry and agroecology.



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

建築学

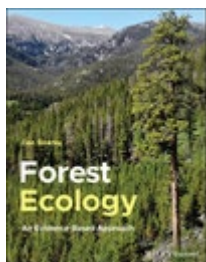
Forest Ecology

An Evidence-Based Approach

DAN BINKLEY

Duke University

Forest ecology is the science that deals with everything in forests, including plants and animals (and their interactions), the features of the environment that affect plants and animals, and the interactions of humans and forests. All of these components of forests interact across scales of space and time. Some interactions are constrained, deterministic, and predictable; but most are indeterminant, contingent, and only broadly predictable.



Forest Ecology: An Evidence-Based Approach examines the features common to all forests, and those unique cases that illustrate the importance of sitespecific factors in determining the structure, function, and future of a forest. The author emphasizes the role of evidence in forest ecology, because appealing, simple stories often lead to misunderstandings about how forests work. A reliance on evidence is central to distinguishing between appealing stories and stories that actually fit real forests.

The evidence based approach emphasizes the importance of real world, observable science in forests. Classical approaches to ecology in the 20th century often overemphasized appealing concepts that were not sufficiently based on real forests. The vast amount of information now available on forests allows a more complete coverage of forest ecology that relies on a strong, empirical foundation.

Forest Ecology: An Evidence-Based Approach is the ideal companion text for the teaching of upper-level undergraduate and graduate courses in forest ecology.

AUGUST 2021 452PP
978-1-119-70320-4 PB \$80.00 (Japan)
Forestry

Emerging Talents

Training Architects

GUEST EDITOR NEIL SPILLER

Bartlett School of Architecture, London, England

There is a newfound interest in architectural education. This *AD* is a survey of some of the best contemporary architecture student work in the world. The most forward-looking architecture schools worldwide are reinventing pedagogy in the hope of developing radical syllabi that are a rich mix of the virtual and the actual. Design education is changing and adapting to compensate for the new material changes to the discipline, and is being used to disentangle old, outmoded spatial practices and replace them with new paradigms of space and representation. This issue showcases the students and teachers who are pushing the envelope of architecture in extraordinary ways, offering their insights into its future materiality and spatial dexterity. It premieres a new young generation of architects who are likely to become names in the architectural profession and possibly important teachers themselves. Their work has been selected by their own influential teachers of architecture who describe the studio methodologies -- and reasons for them -- that prompted the work.



Featured institutions: A Alfred Taubman College of Architecture and Urban Planning, University of Michigan; Architectural Association, London; Bartlett School of Architecture, University College London; Carleton University, Ottawa; CONFLUENCE Institute for Innovation and Creative Strategies in Architecture, Paris; Cooper Union, New York; University of Greenwich, London; KU Leuven, Belgium; Rensselaer Polytechnic Institute, New York; Southern California Institute of Architecture (SCI-Arc), Los Angeles; Swinburne University of Technology, Melbourne; Victoria University of Wellington, New Zealand; and the University of Applied Arts, Vienna

SERIES: ARCHITECTURAL DESIGN

AUGUST 2021 136PP
978-1-119-71752-2 PB \$41.37 (Japan)
Architectural Theory

Heating, Cooling, Lighting

Sustainable Design Strategies Towards Net Zero Architecture, 5th Edition

NORBERT M. LECHNER & PATRICIA ANDRASIK

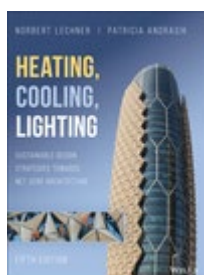
Auburn University

The essential guide to environmental control systems in building design

For over 25 years *Heating, Cooling, Lighting: Sustainable Design Strategies Towards Net Zero Architecture* has provided architects and design professionals the knowledge and tools required to design a sustainable built environment at the schematic design stage. This Fifth Edition offers cutting-edge research in the field of sustainable architecture and design and has been completely restructured based on net zero design strategies. Reflecting the latest developments in codes, standards, and rating systems for energy efficiency, *Heating, Cooling, Lighting: Sustainable Design Strategies Towards Net Zero Architecture* includes three new chapters:

- Retrofits: Best practices for efficient energy optimization in existing buildings
- Integrated Design: Strategies for synergizing passive and active design
- Design Tools: How to utilize the best tools to benchmark a building's sustainability and net zero potential

Heating, Cooling, Lighting: Sustainable Design Strategies Towards Net Zero Architecture is a go-to resource for practicing professionals and students in the fields of environmental systems technology or design, environmental design systems, construction technology, and sustainability technology.



AUGUST 2021 816PP
978-1-119-58574-9 CL \$135.00 (Japan)
BUILDING DESIGN

People Flow in Buildings

MARJA-LIISA SIIKONEN

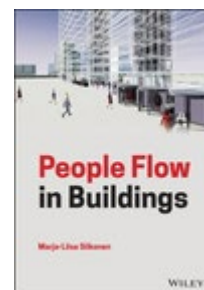
Discover how to measure, control, model, and plan people flow within modern buildings with this one-stop resource from a leading professional

People Flow in Buildings delivers a comprehensive and insightful description of people flow, analysis with software-based tools. The book offers readers an up-to-date overview of mathematical optimization methods used in control systems and transportation planning methods used to manage vertical and horizontal transportation.

The text offers a starting point for selecting the optimal transportation equipment for new buildings and those being modernized. It provides insight into making passenger journeys pleasant and smooth, while providing readers with an examination of how modern trends in building usage, like increasingly tall buildings and COVID-19, effect people flow planning in buildings.

People Flow in Buildings clearly defines the terms and symbols it includes and then moves on to deal with the measurement, control, modelling, and planning of people flow within buildings of all kinds. Each chapter contains an introduction describing its contents and the background of the subject. Included appendices describe measured passenger data and performed analyses.

Perfect for software designers in the private sector and academia, *People Flow in Buildings* will also earn a place in the libraries of elevator consultants, manufacturers, and architects who seek a one-stop reference for transportation devices from a functional and design perspective, as opposed to a hardware perspective.



AUGUST 2021 464PP
978-1-119-54556-9 CL \$137.88 (Japan)
Building Design

ビジネス

Growing the Top Line

Four Key Questions and the Proven Process for Scaling Your Business

CLIFF FARRAH

The Beacon Group

Pioneering growth strategist Cliff Farrah reveals how to grow revenue like a Fortune 500 giant

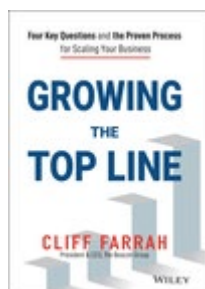
Growing the Top Line: Four Key Questions and the Proven Process to Scaling Your Business delivers the step-by-step approach to topline growth used by some of the world's most successful companies. In this book, leading growth strategy consultant and author, Cliff Farrah, reveals the copyrighted growth strategy that he has developed over the last twenty years through 1,400 successful client engagements and input from leaders at Fortune 500 organizations.

Featuring interviews from current and prior leaders at major corporations like Intel, Nike, Chase, Oracle, Raytheon, and the WHO, *Growing the Top Line* demonstrates that regular business growth isn't a mystery to be "hacked." Instead, Farrah distills revenue growth into a simple methodology that readers can use to successfully plan growth at their own companies. Readers will discover:

- The four questions each business leader must ask him or herself when formulating a growth strategy
- The sixteen different pathways to growth that those four questions unlock, and how to follow them

Interviews with key leaders and executives who bring the author's framework to life. Perfect for executives, managers, and entrepreneurs tasked with growing revenue, *Growing the Top Line* also belongs on the bookshelves of business enthusiasts and employees who hope to make a quantifiable impact in their work.

AUGUST 2021 240PP
978-1-119-77920-9 CL \$28.00 (Japan)
General & Introductory Business & Management

**Persuade**

The 4-Step Process to Influence People and Decisions

ANDRES LARES, JEFF COCHRAN & SHAUN DIGAN

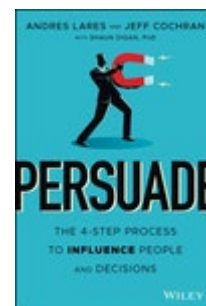
Transform your ability to persuade and negotiate with this practical new resource

In *Persuade: The 4-Step Process to Influence People and Decisions*, accomplished sales, negotiation, and influence experts Andres Lares, Jeff Cochran, and Shaun Digan PhD deliver a concise and insightful take on how to transform your ability to persuade others regardless of the setting.

In this important book you'll discover:

- Original research and scientific studies shedding light on the human decision-making processes that drive success and failure in virtually all interactions
- Real world examples and practical exercises to illustrate and practice the concepts discussed
- A fun yet rigorous approach of a complex subject that can be practically applied in any business situation

Persuade is perfect for executives, managers, entrepreneurs, and other business leaders and will earn a place in the libraries of any professional who negotiates or influences on a regular basis. It is an invaluable resource for anyone seeking to improve their persuasion or deal-making abilities.



AUGUST 2021 288PP
978-1-119-77851-6 CL \$25.00 (Japan)
General & Introductory Business & Management

High Ten

An Inspiring Story About Building Great Team Culture

MARTIN ROONEY, CHARLOTTE

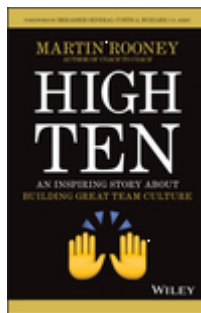
Harness the power of Martin Rooney's acclaimed "Culture Coach" philosophy to build the culture of your dreams

Building a great team culture doesn't happen overnight. Culture is hard to create, and even harder to change. Great culture is a key component for success at home, on the sports field, and at the workplace. In a time when people seem to be more divided than ever, leaders who can build strong and lasting cultures are essential. No one knows this better than internationally-renowned coach, in-demand speaker, and bestselling author Martin Rooney--dedicating his life to coach elite athletes, Fortune 500 executives, military leaders, and every kind of team imaginable to their highest level of performance.

In *High Ten: An Inspiring Story About Building Great Team Culture*, Martin draws from his extensive experience developing top-level teams around the world to help leaders of all kinds foster and sustain winning cultures. This engaging, easy-to-read parable shows you that every business, sports team, and family has a culture. Whether you deliberately created it or not, it's always there and it didn't come with a manual. That's where *High Ten* comes in. This must-have book is your personal leadership manual. Stop spending your day unhappy or complaining about a dream that hasn't come true.

High Ten: An Inspiring Story About Building Great Team Culture is an invaluable resource for all coaches and leaders striving to achieve the highest level of culture--one where everyone feels like a valuable part of the team and consistently produces exceptional results.

AUGUST 2021 288PP
978-1-119-80616-5 CL \$23.00 (Japan)
Business Self-Help



Move Your Mind

How to Build a Healthy Mindset for Life

NICK BRACKS

Learn how to create new daily habits that build happiness and reduce stress

In *Move Your Mind*, acclaimed actor, entrepreneur, and mental health advocate Nick Bracks delivers the practical tools and lessons that will help you make small, but measurable, daily changes to foster positive, lasting improvements to your mental health. Told through the author's own experiences with mental illness, this book offers a holistic approach to improving your mental health, and shows readers how to make positive lifestyle changes in areas like exercise, nutrition, sleep, mindfulness, and meditation. The book offers:

- Valuable and insightful case studies of real and well-known people who took control of and improved their mental wellbeing
 - Key research findings from industry leaders in mindfulness, meditation, memory, mental health, psychology, and performance
 - Guidance on how to take small, gradual steps that lead to big changes in your motivation and inspiration
- Perfect for anyone who has tried to take ownership of their own mental health but lacked the time, motivation, or information to effectively make a change, *Move Your Mind* is an indispensable guide to creating long-term behavior changes that promote increased happiness, decreased anxiety and stress, and better relationships.

AUGUST 2021 UnknownPP
978-0-7303-9204-0 PB \$20.99 (Japan)
Business Self-Help

Pivot for Success

Hone Your Vision, Shift Your Energy, Make Your Move

AMY S. HILLIARD

Inspiring stories and success secrets from business leader and entrepreneur Amy Hilliard

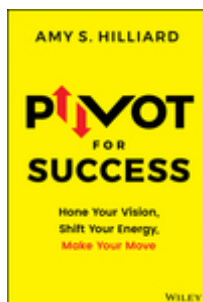
Pivot for Success tells business leader and entrepreneur Amy Hilliard's stories of success, struggle, and sustainability to inspire you to become resilient. Hilliard offers her hard-won perspective on what it takes to "make it" in American business and in life. She talks about the tough stuff, the stuff that most people who rise to her level of accomplishment aren't eager for others to know. Few women, and few women of color, have created multi-million-dollar brands in senior corporate positions, legendary entrepreneurial environments, and start-ups. Hilliard's fearless honesty in revealing her experience can help you find your way forward, even if you face obstacles in today's business environment.

While Hilliard is a Harvard Business School graduate, *Pivot for Success* contains lessons not taught in school. Her perspective on success and the failure it often takes to succeed are invaluable. In this book, you will learn the 10 Pivot Points that have led Hilliard to where she is today, including Purpose, Passion, Perseverance, Positivity, Priorities, and more.

The 10 Pivot Points you'll learn in *Pivot for Success* have been tried and tested, and even endorsed by Michelle Obama. In this book, Hilliard shares her impactful life lessons. No matter who you are or where you are in your life's journey, you'll need to gain vision, shift your energy, and make moves in order to get where you're going. Through *Pivot for Success*, you'll find that you *can* succeed, even when you think you've lost it all.

As the owner of three businesses, Amy Hilliard knows what it takes to hustle and get there. In *Pivot for Success*, she shows you how.

AUGUST 2021 208PP
978-1-119-78097-7 CL \$25.00 (Japan)
Business Self-Help



Row the Boat

A Never-Give-Up Approach to Lead with Enthusiasm and Optimism and Improve Your Team and Culture

JON GORDON, PONTE VEDRA BEACH, UNITED STATES & P.J. FLECK

Learn to live and lead with enthusiasm and optimism, impact your team, and transform your culture

In *Row the Boat*, Minnesota Golden Gophers Head Coach P.J. Fleck and bestselling author Jon Gordon deliver an inspiring message about what you can achieve when you approach life with a never-give-up philosophy. The book shows you how to choose enthusiasm and optimism as your guiding lights instead of being defined by circumstances and events outside of your control.

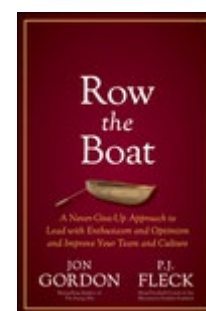
Discover how to put the three key components of row the boat into practice in your life:

- **The Oar:** The energy. Only you can dictate whether your oar is in the water or whether you take it out and decide not to use it.
- **The Boat:** The sacrifice. The more you give, serve, and make your life about helping others, the better and more fulfilled your life will be, and the bigger your boat gets.
- **The Compass:** The direction. The vision you have for your life and the people you surround yourself with help create the dream of where you want to go.

Perfect for athletes, coaches, business leaders, and anyone else who hopes to squeeze a little more enjoyment and productivity out of life, *Row the Boat* will propel leaders, teams, and organizations to greater heights than they have ever reached before.

SERIES: JON GORDON

AUGUST 2021 144PP
978-1-119-76629-2 CL \$23.00 (Japan)
Business Self-Help



Next Move, Best Move

Transitioning Into a Career You'll Love

KIMBERLY B. CUMMINGS & LINDSEY POLLAK

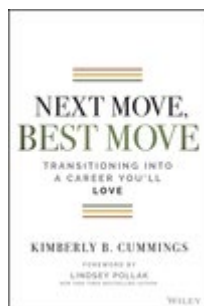
An expert guide for professionals seeking to understand how to navigate the world of work.

Kimberly B. Cummings, author of *Next Move, Best Move: Transitioning into a Career You'll Love*, leaves no stone unturned with this thorough, expert guide for professionals seeking to understand how to navigate the world of work, from beginning to end, starting with uncovering personal and professional values in an effort to align their expertise and skills to roles and companies that will finally change the trajectory of their career and set them up to be leaders in the workforce.

As a former career development adviser in some of the nation's top universities and a diversity + inclusion professional in a Fortune 100 company, Cummings has recognized that people work for the sake of working without understanding how to leverage their unique gifts and position themselves for success. As a result, *Next Move, Best Move: Transitioning into a Career You'll Love* shares transformational lessons to ensure success and puts the ball back in your court. In Cummings' highly acclaimed book, a specific, effective framework is unveiled to ensure each reader channels and utilizes their highest potential as they regain control and steer professional opportunities in their favor, gaining key information as to:

- Taking stock of their experiences to ensure strategic career moves
- Discovering how to cultivate and maintain fruitful relationships that support career growth
- Uncovering how to build a two-year career strategy to move you into future leadership positions
- Gaining a deeper look into personal and professional branding to ensure alignment with leadership capabilities and career goals
- Learning how to use their voice in the workplace to advocate for themselves

AUGUST 2021 240PP
978-1-119-73622-6 PB \$19.95 (Japan)
Business & Finance



Supply Chain Management Best Practices

3rd Edition

DAVID BLANCHARD

Learn from leaders across industries to develop a tech-enabled "best-in-class" supply chain

Supply Chain Management Best Practices, Third Edition, is the long-awaited update to a classic resource. Since the second edition was published, the demands of the marketplace have radically shifted the dynamics of supply chain management. Transportation and fulfillment must now accommodate the technological gains that have transferred computing power from mainframes and workstations into smartphones in hands around the world. This updated book covers the new concepts, processes, and technologies that today's supply chain professionals must know—including drones, the Internet of Things, same-day delivery, artificial intelligence, and more. Award-winning author David Blanchard discusses how companies are actively using these technologies and gaining competitive advantage through their implementation.

Like its predecessors, this edition focuses on industry trends and case studies, offering the stories, recent examples of supply chain initiatives, and insights into new best practices. You'll learn proven methods for measuring the performance of a supply chain, including traditional core processes and new, extended strategies being used by today's leading companies.

This invaluable guide for supply chain professionals, CFOs, CIOs, and others, also offers guidance on green supply chains and managing logistics in a global environment.



AUGUST 2021 320PP
978-1-119-73823-7 CL \$60.00 (Japan)
STRATEGIC MANAGEMENT

Influence and Impact

Discover and Excel at What Your Organization Needs From You The Most

BILL BERMAN & GEORGE B. BRADT

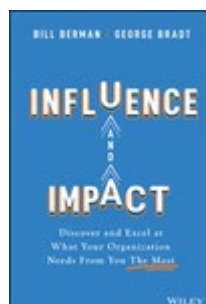
Optimize your career development by focusing on what your job requires and what your colleagues need

Doing the right job the right way is critical to your professional success. *Influence and Impact: Discover and Excel at What Your Organization Needs From You The Most* provides an easy-to-follow, common-sense approach to building influence at any level of an organization. Accomplished leadership and executive coaches Bill Berman and George Bradt offer a fresh perspective on

- Evaluating what values, strengths and capabilities you bring to your role
- How you can develop new skills to increase your influence
- Determining if you are in the right place to have the greatest impact

Through a trifecta of clear frameworks, accessible anecdotes, and pragmatic solutions, *Influence and Impact* shows the reader how to apply well-tested coaching tools to becoming more influential and achieving impact at work. If you have never worked with an executive coach--or even if you have--this book provides the concepts, techniques, and provocative questions to unpack personal paths to success. Perfect for executives, managers, leaders, and any professional who hopes to get a clearer picture of what their colleagues, superiors, and followers expect of them, *Influence and Impact* will allow you to refocus your efforts at work and obtain the results you've been looking for.

AUGUST 2021 256PP
978-1-119-78613-9 CL \$28.00 (Japan)
Management / Leadership



Upstanding

How Company Character Catalyzes Loyalty, Agility, and Hypergrowth

FRANK A. CALDERONI

Anaplan

The CEO of Anaplan explains how a company's character is a critical driver of sustained success

In his career as an executive at IBM, Cisco, and now as CEO of Anaplan, Frank A. Calderoni discovered that character is just as vital for companies as it is for individuals.

In *Upstanding: How Company Character Catalyzes Loyalty, Agility, and Hypergrowth*, the author explores the powerful link between corporate strategy, company culture, and individual character, and how activating this link is essential to realizing strong company character--and an essential ingredient for organizations to achieve hypergrowth, agility, and loyalty. This innovative resource features real-life examples of how today's most successful companies are building upstanding character while increasing employee engagement, happiness, and performance.

The book is written to help executives, company founders, managers, and other leaders develop strategies that supercharge organizational performance while building a strong and high-engagement culture--providing real-world insights from the author's own career along with a diverse cross-section of business thought leaders and CEOs of companies both small and large, local and global. The author draws upon his experience leading a \$10 billion hypergrowth software company to explain how the fusion of culture and strategy, driven by a company's character, leads to sustained internal and external success.

AUGUST 2021 240PP
978-1-119-74649-2 CL \$25.00 (Japan)
Management / Leadership

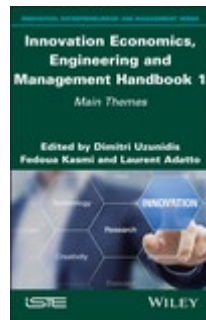


Innovation Economics, Engineering and Management Handbook 1

Main Themes

EDITOR DIMITRI UZUNIDIS

Innovation, in economic activity, in managerial concepts and in engineering design, results from creative activities, entrepreneurial strategies and the business climate. Innovation leads to technological, organizational and commercial changes, due to the relationships between enterprises, public institutions and civil society organizations. These innovation networks create new knowledge and contribute to the dissemination of new socio-economic and technological models, through new production and marketing methods.



Innovation Economics, Engineering and Management Handbook 1 is the first of the two volumes that comprise this book. The main objectives across both volumes are to study the innovation processes in today's information and knowledge society; to analyze how links between research and business have intensified; and to discuss the methods by which innovation emerges and is managed by firms, not only from a local perspective but also a global one. The studies presented in these two volumes contribute toward an understanding of the systemic nature of innovations and enable reflection on their potential applications, in order to think about the meaning of growth and prosperity.

AUGUST 2021 464PP
978-1-78630-456-8 CL \$165.00 (Japan)
Creativity & Innovation Management

Innovation Economics, Engineering and Management Handbook 2

Special Theme

EDITOR DIMITRI UZUNIDIS

AUGUST 2021 332PP
978-1-78630-701-9 CL \$165.00 (Japan)
Creativity & Innovation Management

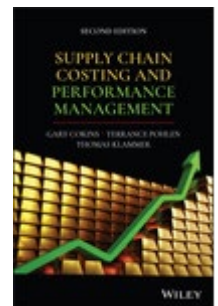
Supply Chain Costing and Performance Management

2nd Edition

GARY COKINS, TERRY POHLEN & TOM KLAMMER

A "how-to" guide for supply chain professionals who need accurate cost information for end-to-end processes

With the increasing pace of globalization, supply chain professionals find that they have less and less margin for error in their decisions making. Competition is getting more intense, and, unfortunately, CFOs and accountants do not currently provide supply chain managers with the information required to make better decisions. *Supply Chain Costing and Performance Management, 2nd Edition*, will show you (and the executives you report to) how to understand and apply various enterprise and corporate performance management (EPM/CPM) methods related to costs and profit margins and performance measurements.



This book is a "how-to" guide to assist supply chain managers and employee teams to obtain interenterprise cost information on supply chain processes. It provides techniques for obtaining accurate cost and performance information on the activities performed within your firm and on activities performed by trading partners. The techniques and approaches in this book were developed from supply chain costing practices implemented by leading-edge firms. You will learn how you can gain access to reasonably accurate costs and profit margins involved with suppliers, products, stock keeping units (SKUs), service-lines, channels, and customers. In addition, you will gain insight into the activity costs in end-to-end business processes, including the "drivers" for each type of cost.

The information in this book will empower supply chain managers with the ability to make better decisions and improve their organizations' performance and profitability.

AUGUST 2021 272PP
978-1-119-79363-2 CL \$55.00 (Japan)
Production Operations Management

Project Benefit Realisation and Project Management

The 6Q Governance Approach

RAYMOND C. YOUNG & VEDRAN ZERJAV

The main feature of this book will be to illustrate that there is a difference between project management success and project success. Although the traditional approach to project management has focused on considerations of time, budget and quality, this book will focus on project success understood in terms of the realisation of project benefits. Research has shown that projects very rarely succeed to realise benefits without top management support so this handbook emphasises and presents projects in the context of the needs of the top manager. It will deliver specific guidance for top managers and other stakeholders involved with projects across areas of construction, technology development, and business transformation, as well as those who find themselves in the role of the *accidental project manager* -- those appointed to projects but with little project experience, who need to learn how to manage projects in the shortest time possible. It is concise without oversimplifying issues and does not fall into the trap of a "one-size-fits-all" approach. It provides a number of carefully selected examples to show how concepts can be applied to different types of projects, including those in engineering and construction, information and telecommunication, and organisational change.

AUGUST 2021 192PP
978-1-119-36788-8 PB \$75.00 (Japan)
Project Management

The Consulting Bible

How to Launch and Grow a Seven-Figure Consulting Business

Second Edition

ALAN WEISS, EAST GREENWICH

Summit Consulting Group, Inc.

The new edition of bestselling real-world guide to consultancy success, from the "Rock Star of Consulting" Alan Weiss



The second edition of *The Consulting Bible: Everything You Need to Know to Create and Expand a Seven-Figure Consulting Practice* remains the most comprehensive and practical guide to the consulting profession, from launch to high growth, from marketing to implementation. Legendary consultant, speaker, and bestselling author Alan Weiss shows you how to create an independent or boutique consulting practice and take it to seven-figure success. Step-by-step, this invaluable resource guides you through attracting clients, maximizing your value, and achieving your career goals.

In the decade since the first publication of *The Consulting Bible*, an array of significant developments has dramatically impacted the consulting profession: shifts in social consciousness, the Covid-19 pandemic, tele-consulting and virtual meetings, the globalization of the economy, the growth of social media, and many more. This exhaustively revised new edition provides specific approaches and techniques for mastering the new consulting environment and turning volatility and disruption into unlimited opportunities.

Written for newcomers and veterans alike, *The Consulting Bible: Everything You Need to Know to Create and Expand a Seven-Figure Consulting Practice, Second Edition*, is essential reading for every solo consultant, entrepreneur, and principal of a small consulting firm.

AUGUST 2021 432PP
978-1-119-77687-1 PB \$25.00 (Japan)
CONSULTING

It's Time to Talk about Race at Work

Every Leader's Guide to Making Progress on Diversity, Equity, and Inclusion

KELLY MCDONALD, DALLAS, UNITED STATES

It's time the business world got the actionable, impactful, no-cost strategies needed to increase diversity and inclusion in the workplace

Many white leaders want to create change but don't know how to do so appropriately and effectively. How do you know where the blind spots are that can create obstacles for people of color? Your intentions may be sincere and heartfelt, but intentions aren't enough.

In *It's Time to Talk about Race at Work*, acclaimed speaker and bestselling author Kelly McDonald delivers a much-needed roadmap for businesspeople. This book will help you successfully create a fair and equitable workplace that recognizes diverse talent and fosters productive and constructive conversations in your organization. *It's Time to Talk about Race at Work* does not approach diversity from the standpoint of social activism or an HR perspective. Instead, this book shows you exactly what to do and how to do it so that you can make real progress on diversity and inclusion, regardless of the size of your organization.

Perfect for executives, managers, and leaders in organizations of all types and sizes, *It's Time to Talk about Race at Work* is also for employees who want to improve their organization by leading by example.



AUGUST 2021 UnknownPP
978-1-119-79087-7 CL \$26.00 (Japan)
Training & Human Resource Development / Diversity

Decisively Digital

From Creating a Culture to Designing Strategy

ALEXANDER LOTH

Discover how to survive and thrive in an increasingly digital world

Digital strategy should consist of more than just updating your business' desktop computers and buying the newest smartphones for your employees. It requires the reimagining of existing business processes and the implementation of the latest technologies into current business activity to enable new capabilities for your firm.

In *Decisively Digital: From Creating a Culture to Designing Strategy*, digital strategy advisor and author Alexander Loth leverages his extensive experience working with Microsoft, CERN, and SAP to deliver a robust and accessible exploration of what it takes for a company to unlock the potential of new digital technologies. You'll discover how to:

- Utilize new technologies to establish a digital culture and realize the benefits of modern work for your employees
- Unleash the abilities that come with processing big data and taking advantage of data democracy, analytics, and cloud computing
- Implement artificial intelligence, blockchain, process automation, and IoT in a way that goes beyond the hype and delivers real business results

Packed with interviews with industry leaders and real-world customer examples, *Decisively Digital* is ideal for CIOs, CDOs, and other executives and professionals who need to know how technology can improve their businesses and power results today and tomorrow.



AUGUST 2021 440PP
978-1-119-73728-5 PB \$25.00 (Japan)
Business & Society

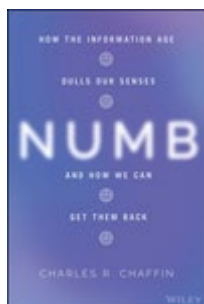
Numb

How the Information Age Dulls Our Senses and How We Can Get them Back

CHARLES R. CHAFFIN

Discover how to manage this noisy world without it managing you.

In *Numb*, distinguished author Dr. Charles R. Chaffin delivers a fun and evidence-based exploration of how you can devote more attention on what you believe is important while ignoring the distractions that increasingly permeate your life. Using research from cognitive, education, positive, and clinical psychology, the book identifies the sources of noise and distraction in this information age and how we can manage it in all aspects of our lives.



You'll learn about:

- How experiences in technology, from social media to selfies to porn, impact our ability to engage and connect with others
- The news we consume and the impact of confirmation bias, filter bubbles, and tribalism
- How FOMO and choice overload impact our decision-making
- The power of our attention in all aspects of our daily lives

Perfect for anyone interested in the expanding impact of the information age on our collective psyche, *Numb* helps empower you to use technology and information not as a destination, but as a tool towards authenticity and empowerment.

AUGUST 2021 224PP
978-1-119-77435-8 CL \$29.95 (Japan)
Business & Society

Virtual Training

The Art of Conducting Powerful Virtual Training that Engages Learners and Makes Knowledge Stick

JEB BLOUNT, UNITED STATES

The global pandemic accelerated the broad adoption of virtual instructor led training along with awareness that classroom-based training is often expensive, inefficient, and fails to deliver a fair return on investment. While it is certainly more challenging to re-create the collaborative environment of the physical classroom in a virtual setting, virtual training combines the structure, accountability, and social learning benefits of classroom training with speed, agility, and significant cost savings.



Simply put, virtual training enables organizations to rapidly upskill more people, while generating a far higher return on the training investment. Virtual training is also green. Studies indicate that virtual training consumes nearly 90% less energy and produces 85% fewer CO2 emissions than classroom training.

Still, the biggest challenge with virtual training, and the reason there has been so much resistance to it, is historically the experience has been excruciating. Not the quality of the curriculum or content. Not the talent of the trainer. The learning experience. There are few people who haven't had the pleasure of sitting through agonizing virtual training sessions. Death by voice over PowerPoint, delivered by a disengaged instructor, has an especially bitter flavor.

Virtual Training is the definitive guide to delivering virtual training that engages learners and makes new skills and behavioral changes stick. Jeb Blount, one of the most celebrated trainers and authors of our generation, walks you step-by-step through the seven elements of effective, engaging virtual learning experiences.

SERIES: JEB BLOUNT

AUGUST 2021 UnknownPP
978-1-119-75583-8 CL \$27.00 (Japan)
Marketing & Sales

Advertising by Design

Generating and Designing Creative Ideas Across Media, 4th Edition

ROBIN LANDA

Kean University

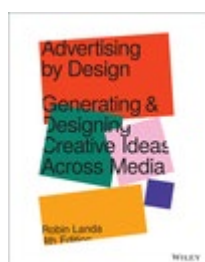
A real-world introduction to advertising design and art direction, updated and revised for today's industry

The newly revised Fourth Edition of *Advertising by Design: Generating and Designing Creative Ideas Across Media* delivers an invigorating and cutting-edge take on concept generation, art direction, design, and media channels for advertising. The book offers principles, theories, step-by-step instructions, and advice from esteemed experts to guide you through the fundamentals of advertising design and the creative process.

With a fresh focus on building a coherent brand campaign through storytelling across all media channels, *Advertising by Design* shows you how to conceive ideas based on strategy, build brands with compelling advertising, and encourage social media participation. You'll also get insights from guest essays and interviews with world-leading creatives in the advertising industry. The book is filled with practical case studies that show real-world applications.

Perfect for students and instructors of advertising design, art direction, graphic design, communication design, and copywriting, *Advertising by Design* also will earn a place in the libraries of business owners, executives, managers, and employees whose work requires them to understand and execute on branding initiatives, advertising campaigns, and other customer-facing content.

AUGUST 2021 288PP
978-1-119-69149-5 PB \$75.00 (Japan)
GRAPHIC DESIGN



The Road to Luxury

The New Frontiers in Luxury Brand Management

2nd Edition

ASHOK SOM & CHRISTIAN BLANCKAERT

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

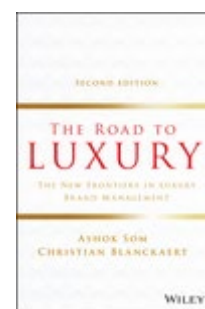
The thoroughly revised Second Edition of *The Road to Luxury: The New Frontiers in Luxury Brand Management* delivers a comprehensive overview of the foundations of, and new developments in, luxury brands. The book discusses a new wave of mergers and acquisitions, the rise of Gucci, the growth of Balenciaga,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

Readers will also benefit from the inclusion of:

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

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

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



Understanding and Managing Public Organizations

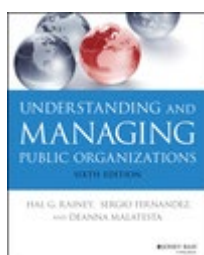
6th Edition

HAL G. RAINEY

University of Georgia

Discover the latest insights in organization theory from a comprehensive and masterful volume

Understanding and Managing Public Organizations, 6th Edition provides readers with an authoritative reference for scholars, masters, and doctoral students in public management and public affairs programs in the United States and other nations.



The 6th Edition of *Understanding and Managing Public Organizations* presents the latest research and insights from organization and management theory and their application to public organizations and the people in them. The book expands coverage from previous editions about organizational goals, performance and effectiveness, strategy, decision-making, structure and design, organizational change, operating environments, individuals and groups, motivation and work-related attitudes, leadership, teamwork, and more.

Belonging on the shelf of scholars and students in public affairs, as well as anyone interested in public management or organization theory, this new edition of *Understanding and Managing Public Organizations* provides an advanced and comprehensive enhancement to a widely used and compelling series of previous editions.

SERIES: ESSENTIAL TEXTS FOR NONPROFIT AND PUBLIC LEADERSHIP AND MANAGEMENT

AUGUST 2021 688PP
978-1-119-70589-5 PB \$94.00 (Japan)
PUBLIC ADMINISTRATION & MANAGEMENT

People Operations

Automate HR, Design a Great Employee Experience, and Unleash Your Workforce

JAY FULCHER, TRACY COTE & KEVIN MARASCO

How the Best Companies are Skipping HR and Winning the Future of Work with People Ops

People Operations: Automate HR, Design a Great Employee Experience, and Unleash Your Workforce explains how leaders at small- and medium-sized businesses can stop spending time on HR administration--"paperwork"--and start focusing on the "peoplework" that truly fuels employee growth and productivity. Authors Jay Fulcher, Kevin Marasco, Tracy Cote of Zenefits, the leading people operations platform, provide readers with a playbook for creating a massive competitive advantage by eliminating antiquated approaches to HR. The book takes a look at how work has changed and what companies need to do about it, and the new approach they must take to processes, systems, and best practices. You'll learn how to eliminate busywork and hassle, and how to use that newfound time and capital to empower your biggest asset: your people.



You'll receive the end-to-end guide to:

- Digitizing legacy HR functions
- Using robots for the busywork you hate
- Employing software to design and improve your employee experience
- Assembling and empowering your "people team"
- Utilizing the included plans and templates to guide each stage of your business transformation

Perfect for managers, leaders, small business owners, and executives, *People Operations* is perfect for anyone who wants to optimize HR, maximize their workforce investment, support their employees, and modernize their business.

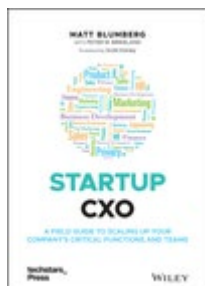
AUGUST 2021 256PP
978-1-119-78523-1 CL \$30.00 (Japan)
Small Business & Entrepreneurship

Startup CXO

A Field Guide to Scaling Up Your Company's Critical Functions and Teams

MATT BLUMBERG

One of the greatest challenges for startup teams is scaling because usually there's not a blueprint to follow, people are learning their function as they go, and everyone is wearing multiple hats. There can be lots of trial and error, lots of missteps, and lots of valuable time and money squandered as companies scale. Matt Blumberg and his team understand the scaling challenges--they've been there, and it took them nearly 20 years to scale and achieve a successful exit. Along the way they learned what worked and what didn't work, and they share their lessons learned in *Startup CXO*.



Unlike other business books, *Startup CXO* is designed to help each functional leader understand how their function scales, what to anticipate as they scale, and what things to avoid. Beyond providing function-specific advice, tools, and tactics, *Startup CXO* is a resource for each team member to learn about the other functions, understand other functional challenges, and get greater clarity on how to collaborate effectively with the other functional leads. CEOs, Board members, and investors have a book they can consult to pinpoint areas of weakness and learn how to turn those into strengths. *Startup CXO* has in-depth chapters covering the nine most common functions in startups: finance, people, marketing, sales, customers, business development, product, operations, and privacy. Each functional section has a "CEO to CEO Advice" summary from Blumberg on what great looks like for that CXO, signs your CXO isn't scaling, and how to engage with your CXO.

Startup CXO also has a section on the future of executive work, fractional and interim roles. Written by leading practitioners in the newly emergent fractional executive world, each function is covered with useful tips on how to be a successful fractional executive as well as what to look for and how to manage fractional executives.

SERIES: TECHSTARS

AUGUST 2021 512PP
978-1-119-77257-6 CL \$29.95 (Japan)
Small Business & Entrepreneurship

The Dogfish Head Book

25 Years of Off-Centered Adventures

SAM CALAGIONE, LEWES, MARIAH CALAGIONE & ANDREW C. GREELEY

Celebrate the 25th anniversary of the Dogfish Head Craft Brewery with this rich, adventurous history

The Dogfish Head Book: 25 Years of Off-Centered Adventures celebrates a quarter-century in business for the Dogfish Head Craft Brewery. Over the past 25 years, the Dogfish Head founders have learned timeless lessons about working and living. This book shares their hard-earned insights and helps readers navigate life's adventures.



Through its colorful design and photos, *The Dogfish Head Book* brings the brewing business to life. Inside, you'll find wisdom and entertainment in the form of memorabilia, photos, and the Dogfish Head Rules of Thumb. Food and beer lovers, entrepreneurs, and business professionals alike will enjoy this unique book, which also makes a perfect gift for any Dogfish Head fan or craft beer enthusiast.

Since its start in 1995, Dogfish Head has grown exponentially to become one of the most celebrated craft breweries in the United States. This book lets you tour the history of the iconic brand without leaving home.

- Recounts the rich history of the Dogfish Head Brewery and Distillery
- Explores the founders' unique and successful business philosophy
- Reveals new details about the future of this fast-growing brewery
- Celebrates the 25th anniversary of Dogfish Head

Paired nicely with any Dogfish Head beer, *The Dogfish Head Book: 25 Years of Off-Centered Adventures* a living guide to business and life--the Dogfish way!

AUGUST 2021 UnknownPP
978-1-119-64957-1 CL \$35.00 (Japan)
Business & Management Special Topics

生体医用工学

Self-Healing Smart Materials

EDITOR INAMUDDIN, EDITOR MOHD IMRAN AHAMED, EDITOR
RAJENDER BODDULA & EDITOR TARIQ A. ALTALHI

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

This comprehensive book describes the design, synthesis, mechanisms, characterization, fundamental properties, functions and development of self-healing smart materials and their composites with their allied applications. It covers cementitious concrete composites, bleeding composites, elastomers, tires, membranes, and composites in energy storage, coatings, shape-memory, aerospace and robotic applications. The 21 chapters are written by researchers from a variety of disciplines and backgrounds.



AUGUST 2021 560PP
978-1-119-71015-8 CL \$225.00 (Japan)
Biomaterials

土木工学

Modern Trends in Structural and Solid Mechanics 1

Statics and Stability

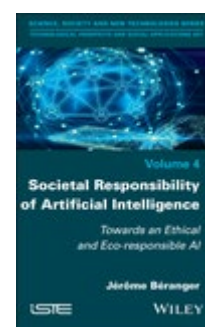
EDITOR NOEL CHALLAMEL, EDITOR JULIUS KAPLUNOV & EDITOR
IZURU TAKEWAKI

Kyoto University, Japan

This book - comprised of three separate volumes - presents the recent developments and research discoveries in structural and solid mechanics; it is dedicated to Professor Isaac Elishakoff.

This first volume is devoted to the statics and stability of solid and structural members. Modern Trends in Structural and Solid Mechanics 1 has broad scope, covering topics such as: buckling of discrete systems (elastic chains, lattices with short and long range interactions, and discrete arches), buckling of continuous structural elements including beams, arches and plates, static investigation of composite plates, exact solutions of plate problems, elastic and inelastic buckling, dynamic buckling under impulsive loading, buckling and post-buckling investigations, buckling of conservative and non-conservative systems and buckling of micro_ and macro-systems.

This book is intended for graduate students and researchers in the field of theoretical and applied mechanics.



AUGUST 2021 300PP
978-1-78630-714-9 CL \$165.00 (Japan)
Structural Theory & Structural Mechanics

Modern Trends in Structural and Solid Mechanics 2

Vibrations

EDITOR NOEL CHALLAMEL, EDITOR JULIUS KAPLUNOV & EDITOR
IZURU TAKEWAKI

Kyoto University, Japan

This book - comprised of three separate volumes - presents the recent developments and research discoveries in structural and solid mechanics; it is dedicated to Professor Isaac Elishakoff. This second volume is devoted to the vibrations of solid and structural members.

Modern Trends in Structural and Solid Mechanics 2 has broad scope, covering topics such as: exact and approximate vibration solutions of rods, beams, membranes, plates and three-dimensional elasticity problems, Bolotin's dynamic edge effect, the principles of plate theories in dynamics, nano- and microbeams, nonlinear dynamics of shear extensible beams, the vibration and aeroelastic stability behavior of cellular beams, the dynamic response of elastoplastic softening oscillators, the complex dynamics of hysteretic oscillators, bridging waves, and the three-dimensional propagation of waves.

This book is intended for graduate students and researchers in the field of theoretical and applied mechanics.



AUGUST 2021 302PP
978-1-78630-715-6 CL \$165.00 (Japan)
Structural Theory & Structural Mechanics

Modern Trends in Structural and Solid Mechanics 3

Non-deterministic Mechanics

EDITOR NOEL CHALLAMEL, EDITOR JULIUS KAPLUNOV & EDITOR
IZURU TAKEWAKI

Kyoto University, Japan

This book - comprised of three separate volumes - presents the recent developments and research discoveries in structural and solid mechanics; it is dedicated to Professor Isaac Elishakoff. This third volume is devoted to non-deterministic mechanics.

Modern Trends in Structural and Solid Mechanics 3 has broad scope, covering topics such: design optimization under uncertainty, interval field approaches, convex analysis, quantum inspired topology optimization and stochastic dynamics. The book is illustrated by many applications in the field of aerospace engineering, mechanical engineering, civil engineering, biomedical engineering and automotive engineering.

This book is intended for graduate students and researchers in the field of theoretical and applied mechanics.



AUGUST 2021 294PP
978-1-78630-718-7 CL \$165.00 (Japan)
Structural Theory & Structural Mechanics

化学工学

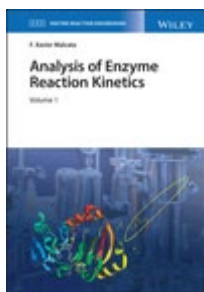
Analysis of Enzyme Reaction Kinetics

F. XAVIER MALCATA

Instituto Superior da Maia

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

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



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

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

SERIES: ENZYME REACTION ENGINEERING

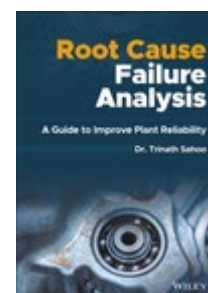
AUGUST 2021 1472PP
978-1-119-49024-1 CL \$425.00 (Japan)
General & Introductory Chemical Engineering

Root Cause Failure Analysis

A Guide to Improve Plant Reliability

TRINATH SAHOO

This book explains the concepts needed to effectively perform industrial troubleshooting investigations. It describes the methodology to perform Root Cause Failure Analysis (RCFA), one of the hottest topics currently in maintenance engineering. The book also describes how proper design, operation, and maintenance of the equipment help to enhance their reliability and provides the reader with the knowledge and failure analysis skills they need to know to prevent similar failures from happening in the future. It bridges the information gap between engineering education and practical application. Special focus is given to compressors, pumps, piping systems, gearboxes, bearings, seals, steam traps, and lubrication related issues.



AUGUST 2021 336PP
978-1-119-61554-5 CL \$150.00 (Japan)
Theory, Planning & Management

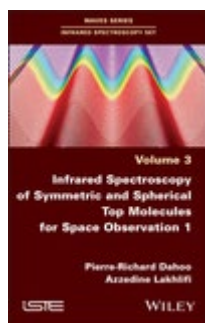
化学

Infrared Spectroscopy of Symmetric and Spherical Spindles for Space Observation 1

PIERRE-RICHARD DAHOO & AZZEDINE LAKHLIFI

This book is dedicated to the description and application of various different theoretical models to identify the near and mid-infrared spectra of symmetric and spherical top molecules in their gaseous form.

Theoretical models based on the use of group theory are applied to rigid and non-rigid molecules, characterized by the phenomenon of tunneling and large amplitude motions. The calculation of vibration-rotation energy levels and the analysis of infrared transitions are applied to molecules of ammonia (NH₃) and methane (CH₄). The applications show how interactions at the molecular scale modify the near and mid-infrared spectra of isolated molecules, under the influence of the pressure of a nano-cage (the substitution site of a rare gas matrix, clathrate, fullerene or zeolite) or a surface, and allow us to identify the characteristics of the perturbing environment. This book provides valuable support for teachers and researchers but is also intended for engineering students, working research engineers and Master's and doctorate students.



AUGUST 2021 286PP
978-1-78630-568-8 CL \$165.00 (Japan)
Spectroscopy

Detection and Analysis of SARS Coronavirus

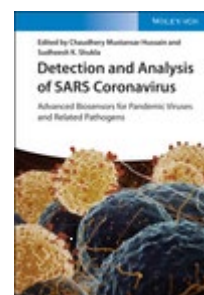
Advanced Biosensors for Pandemic Viruses and Related Pathogens

EDITOR CHAUDHERY MUSTANSAR HUSSAIN & EDITOR
SUDHEESH K. SHUKLA

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

This timely reference shows how a contactless coronavirus detector may be developed using existing biosensor technology, addressing detection principles, biosensor development and fabrication as well as commercialization issues.

While the book focuses on the current global research effort towards a contactless coronavirus detector, the lessons learned can easily be applied to any other current and emerging pathogens.



AUGUST 2021 336PP
978-3-527-34918-0 CL \$151.24 (Japan)
Bioanalytical Chemistry

How to Commercialize Chemical Technologies for a Sustainable Future

TIMOTHY J. CLARK & ANDREW PASTERNAK

The definitive guide for scientific entrepreneurs commercializing sustainable technologies in the chemical sector

Lacking the considerable resources of multinational chemical companies, entrepreneurs face a unique set of risks and challenges. *How to Commercialize Chemical Technologies for a Sustainable Future* is targeted at innovators who are embarking on the entrepreneurial path with their sustainable chemical technology but are unsure of what steps to take. This first-of-its-kind resource features contributions from a diverse team of expert authors, including engineers, venture capitalists, marketing specialists, intellectual property professionals, regulatory experts, industry practitioners, and many others.



Accessible and highly practical, this real-world guide covers each step of the technology commercialization process, from market landscape analysis and financing to scale-up and strategic partnering. Throughout the book, effective tactics and strategies for growing a new venture are supported by case studies highlighting the economic and environmental impact of successful commercialization, and identifying the common mistakes that lead to lost opportunities.

How to Commercialize Chemical Technologies for a Sustainable Future is essential reading for budding entrepreneurs in chemistry, materials science, and chemical engineering looking to bring their sustainable technologies to market. It is also a valuable reference for investors, policymakers, regulators, and other professionals.

AUGUST 2021 352PP
978-1-119-60484-6 CL \$135.00 (Japan)
Industrial Chemistry

Phytopharmaceuticals

Potential Therapeutic Applications

EDITOR DURGESH NANDINI CHAUHAN & EDITOR KAMAL SHAH

Medicinal plants contain a variety of bioactive compounds, (also referred to as phytochemicals), in the leaves, stems, flowers and fruits. This book covers these bioactive compounds, their available sources, how the bioactive molecules are isolated from the plants, the biochemistry, structural composition and potential biological activities. Also discussed are the pharmacological aspects of medicinal plants, phytochemistry and biological activities of different natural products, ethnobotany and medicinal properties, as well as a novel dietary approach for various disease management and therapeutic potential. The importance of phytopharmaceutical of plants and potential applications in the food and pharma industries is highlighted.



AUGUST 2021 496PP
978-1-119-68191-5 CL \$225.00 (Japan)
Pharmaceutical & Medicinal Chemistry

Organic Reactions

Volume 106

EDITOR-IN-CHIEF P. ANDREW EVANS

Indiana University, Department of Chemistry, Bloomington, USA

The 106th volume in this series for organic chemists in academia and industry presents critical discussions of widely used organic reactions or particular phases of a reaction. The material is treated from a preparative viewpoint, with emphasis on limitations, interfering influences, effects of structure and the selection of experimental techniques. The work includes tables that contain all possible examples of the reaction under consideration. Detailed procedures illustrate the significant modifications of each method.

SERIES: ORGANIC REACTIONS

AUGUST 2021 UnknownPP
978-1-119-77123-4 CL \$350.00 (Japan)
Organic Chemistry

Axially Chiral Compounds

Asymmetric Synthesis and Applications

EDITOR BIN TAN

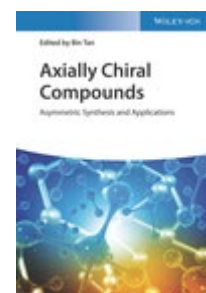
Explore this comprehensive and current volume summarizing the characteristics, synthesis, and applications of axial chirality

Appearing widely in natural products, biologically active molecules, asymmetric chemistry, and material science, axially chiral motifs constitute the core backbones of the majority of chiral ligands and organocatalysts in asymmetric catalysis. In a new work of particular relevance to synthetic chemists, *Axially Chiral Compounds: Asymmetric Synthesis and Applications* delivers a clearly structured and authoritative volume covering the classification, characteristics, synthesis, and applications of axial chirality.

A must read for every synthetic chemist practicing today, the book follows the development history, research status, and applications of axial chirality. Two introductory chapters familiarize the reader with foundational material before the distinguished author describes the different classes and the synthesis of axial chiral compounds used in asymmetric synthesis.

Perfect for organic chemists, chemists working with or on organometallics, catalytic chemists, and materials scientists, *Axially Chiral Compounds: Asymmetric Synthesis and Applications* will also earn a place in the libraries of natural products chemists who seek a one-stop reference for compounds exhibiting axial chirality.

AUGUST 2021 352PP
978-3-527-34712-4 CL \$170.00 (Japan)
Methods - Synthesis & Techniques



Organic Redox Chemistry

Chemical, Photochemical and Electrochemical Syntheses

JUN-ICHI YOSHIDA

Department of Synthetic Chemistry

Explore the most recent advancements and synthesis applications in redox chemistry

With a large number of applications in industrial settings, redox chemistry has emerged as a crucial research topic that covers many aspects of different methodologies in synthesis. In *Organic Redox Chemistry: Chemical, Photochemical and Electrochemical Syntheses*, accomplished researchers and editors Dr. Frederic W. Patureau and the late Dr. Jun-Ichi Yoshida deliver an insightful exploration of this rapidly developing topic.

Rather than divide its material into ionic, radical, and metal- or organocatalyzed transformations, this book highlights electron transfer processes in synthesis by using different ways to initiate them, allowing for a unique and different perspective in synthetic chemistry. Covering a wide array of the important and recent developments in the field, *Organic Redox Chemistry* compares chemical, photochemical, and electrochemical methods.

Perfect for organic, catalytic, pharmaceutical, and medicinal chemists, *Organic Redox Chemistry* will also earn a place in the libraries of photochemists and electrochemists seeking a one-stop resource that compares the chemical, photochemical, and electrochemical methods for redox chemistry.

AUGUST 2021 272PP
978-3-527-34487-1 CL \$160.00 (Japan)
Methods - Synthesis & Techniques

Astrochemistry

The Physical Chemistry of the Universe

2nd Edition

ANDREW M. SHAW, UNITED KINGDOM

University of Exeter, UK

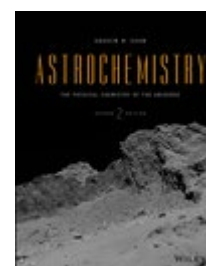
A fully revised new edition of an introductory text to the dynamic and fascinating subject of astrochemistry

Since the first edition in 2006 of *Astrochemistry*, the Mars rovers have driven 31.18 miles, there has been fly-by of Pluto changing it from a 4-pixel world on the Hubble Space Telescope into a mysterious non-planet. There have been visits to asteroids, revisiting Mercury, discovery of the Higgs Boson, discovery of over 2000 extrasolar planets and landing on the comet 67P/Churyumov–Gerasimenko by Rosetta mission -- hence the timely publication of this new edition.

This core textbook now includes more detailed information on the kinetic modelling of chemistry in the interstellar medium, extending the same principles of physical chemistry to meteor ablation and finally atmospheres and oceans. The increase in density from near-emptiness to 1.35×10^{21} L of water in the world's oceans is used to take single collision kinetics into ensemble thermodynamics. A new introduction of thermodynamic using meteor ablation replaces traditional bomb calorimetry and per-biotic chemistry leads to spontaneous reactions.

Written for undergraduate and postgraduate students in astrochemistry or more generally physical chemistry, the new edition of *Astrochemistry* is an important introductory text to the topic, the latest developments in the field and the ubiquity of physical chemistry.

AUGUST 2021 480PP
978-1-119-11472-7 CL \$90.00 (Japan)
PHYSICAL CHEMISTRY



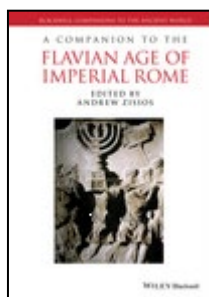
文化研究

A Companion to the Flavian Age of Imperial Rome

EDITOR ANDREW ZISSOS

University of California at Irvine

A Companion to the Flavian Age of Imperial Rome provides asystematic and comprehensive examination of the political, economic, social, and cultural nuances of the Flavian Age (69--96 CE).



- Includes contributions from over two dozen Classical Studies scholars organized into six thematic sections
- Illustrates how economic, social, and cultural forces interacted to create a variety of social worlds within a composite Roman empire
- Concludes with a series of appendices that provide detailed chronological and demographic information and an extensive glossary of terms
- Examines the Flavian Age more broadly and inclusively than ever before incorporating coverage of often neglected groups, such as women and non-Romans within the Empire

SERIES: BLACKWELL COMPANIONS TO THE ANCIENT WORLD

AUGUST 2021 624PP

978-1-119-10079-9 PB \$54.95 (Japan)

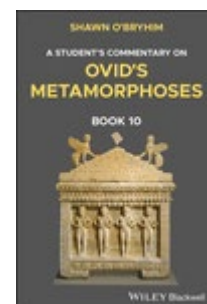
9781444336009 CL \$202.75 (Japan) Published March 2016

Roman Culture

Commentary on Ovid's Metamorphoses Book 10

SHAWN O'BRYHIM

AUGUST 2021 168PP
978-1-119-77050-3 PB \$59.95
Latin Literature



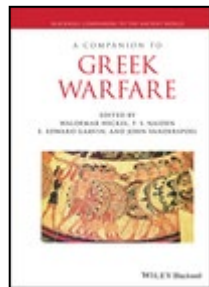
A Companion to Greek Warfare

EDITOR WALDEMAR HECKEL, EDITOR F. S. NAIDEN, EDITOR E. EDWARD GARVIN & JOHN VANDERSPOEL

University of Calgary

Provides a broad and deep exploration of ancient Greek and Macedonian warfare

A Companion to Greek Warfare is an authoritative survey of all major areas in the field of Greek and Macedonian military history, covering diverse operational, economic, social, psychological, and cultural aspects of ancient warfare. Bringing together essays by both international authorities and young scholars, this edited volume exposes readers to alternative views and original interpretations in a host of old and new topics.



Wide in scope, the book presents thematically organized chapters that explore the nature of Greek warfare, military training, discipline, and organization, the economics, pathology, and psychology of war, and depictions of war in Greek art and literature. Entire chapters deal with neglected topics such as espionage, propaganda, war crimes, emotional trauma, the role of women in warfare, Greeks in foreign service, and the armies and methods of the Greeks' and the Macedonians' opponents.

Part of the acclaimed *Blackwell Companions to the Ancient World* series, *A Companion to Greek Warfare* is an important resource for instructors, students, and scholars in all fields of ancient Greek history, particularly military history, and the perfect addition to the library of any general reader with interest in ancient military history.

SERIES: BLACKWELL COMPANIONS TO THE ANCIENT WORLD

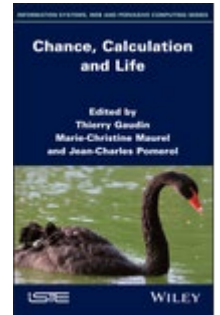
AUGUST 2021 496PP
978-1-119-43881-6 CL \$210.00 (Japan)
Ancient & Classical Greek & Hellenistic Studies

Chance, Calculation and Life

EDITOR THIERRY GAUDIN, EDITOR MARIE-CHRISTINE MAUREL & EDITOR JEAN-CHARLES POMEROL

Chance, Calculation and Life brings together 16 original papers from the colloquium of the same name, organized by the International Cultural Center of Cerisy in 2019.

From mathematics to the humanities and biology, there are many concepts and questions related to chance. What are the different types of chance? Does chance correspond to a lack of knowledge about the causes of events, or is there a truly intrinsic and irreducible chance? Does chance preside over our decisions? Does it govern evolution? Is it at the origin of life? What part do chance and necessity play in biology? This book answers these fundamental questions by bringing together the clear and richly documented contributions of mathematicians, physicists, biologists and philosophers who make this book an incomparable tool for work and reflection.



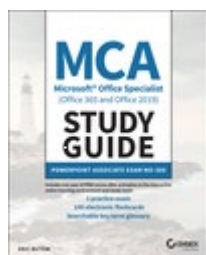
AUGUST 2021 300PP
978-1-78630-667-8 CL \$165.00 (Japan)
General End-User Computing

MCA Microsoft Office Specialist (Office 365 and Office 2019) Study Guide

PowerPoint Associate Exam MO-300

ERIC BUTOW, JACKSON

MCA Microsoft Office Specialist Study Guide: PowerPoint Associate Exam MO-300 is your roadmap to preparing for taking the MO-300 exam and earning the PowerPoint Associate (PowerPoint and PowerPoint 2019) certification. The following objectives are covered:



- Manage presentations
- Manage slides
- Insert and format text, shapes, and images
- Insert tables, charts, smartArt, 3D models, and media
- Apply transitions and animations

Major topics include creating, editing, and enhancing presentations and slideshows, including the ability to create and manage presentations, insert and format shapes and slides, create slide content, apply transitions and animations, and manage multiple presentations. This Study Guide also covers creating professional-grade sales presentations, employee training, instructional materials, and kiosk slideshows.

Readers will also have access to Sybex's superior online test bank, including hundreds of practice questions, flashcards, and a glossary of important terms.

AUGUST 2021 288PP
978-1-119-71846-8 PB \$25.00 (Japan)
Office Productivity - Microsoft (General & Office suite)

Teach Yourself VISUALLY Microsoft Teams

MATT WADE & SVEN SEIDENBERG

Microsoft Teams is the one-stop app for chat, collaboration, meetings, and project management!

Teach Yourself VISUALLY Microsoft Teams helps you understand and learn to use Microsoft's chat- and meeting-based communication and collaboration application. Teams provides many rich features that enable teams to be more efficient and save valuable time and resources. However, as with most applications, there is a learning curve as well as pitfalls that should be avoided, which this book helps you prepare for. Topics include:

- Key Benefits of Teams
- Teams and Channels
- Chats and Files
- Calls and Meetings
- Live Events
- Best Practices for Organizational Success
- Tips and Tricks to Make the Most of the Features
- Land Mines to Avoid



Teams is now the "central hub" for working in Microsoft 365, enabling users to access Word, Excel, PowerPoint, and OneNote, as well as schedule meetings through Outlook. Almost the entire Microsoft 365 suite can be accessed in some way through Teams and many of the newer apps (e.g., Planner and Stream) are built based on the Teams platform. *Teach Yourself VISUALLY Microsoft Teams* is your ultimate guide to getting the most out of using Teams!

SERIES: TEACH YOURSELF VISUALLY (TECH)

AUGUST 2021 400PP
978-1-119-77254-5 PB \$35.00 (Japan)
Office Productivity - Microsoft (General & Office suite)

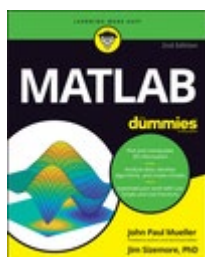
MATLAB For Dummies

2nd Edition

JOHN PAUL MUELLER, LA VALLE, UNITED STATES & JIM SIZEMORE

Go from total MATLAB newbie to plotting graphs and solving equations in a flash!

MATLAB is one of the most powerful and commonly used tools in the STEM field. But did you know it doesn't take an advanced degree or a ton of computer experience to learn it? *MATLAB For Dummies* is the roadmap you've been looking for to simplify and explain this feature-filled tool.



This handy reference walks you through every step of the way as you learn the MATLAB language and environment inside-and-out. Starting with straightforward basics before moving on to more advanced material like Live Functions and Live Scripts, this easy-to-read guide shows you how to make your way around MATLAB with screenshots and newly updated procedures. It includes:

- A comprehensive introduction to installing MATLAB, using its interface, and creating and saving your first file
- Fully updated to include the 2020 and 2021 updates to MATLAB, with all-new screenshots and up-to-date procedures
- Enhanced debugging procedures and use of the Symbolic Math Toolbox
- Brand new instruction on working with Live Scripts and Live Functions, designing classes, creating apps, and building projects
- Intuitive walkthroughs for MATLAB's advanced features, including importing and exporting data and publishing your work

Perfect for STEM students and new professionals ready to master one of the most powerful tools in the fields of engineering, mathematics, and computing, *MATLAB For Dummies* is the simplest way to go from complete newbie to power user faster than you would have thought possible.

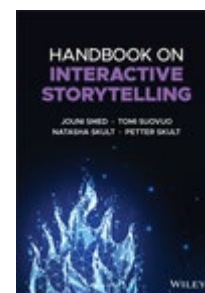
AUGUST 2021 UnknownPP
978-1-119-79688-6 PB \$34.99 (Japan)
OTHER SOFTWARE (NON-MICROSOFT)

Handbook on Interactive Storytelling

JOUNI SMED, FINLAND, TOMI SUOVUO, NATASHA SKULT & PETTER SKULT

University of Turku, Finland

Games are no longer “just” entertainment or simply a leisure activity; multiple platforms that make games available at any moment of the day and connect the player to other players to become a part of a community play a big role in modern society. Interactive storytelling focuses on creating computer systems, where users experience a dramatically compelling narrative that responds to their actions. The objective of this book is to provide readers with a cohesive picture of the research currently being undertaken in interactive storytelling. In addition to the wealth of material, systematic structure, and extensive bibliography, each chapter provides a set of exercises ranging from implementational tasks to open research questions and starting points for further study. The book is also an inspiring source of information for game designers working in the game industry, focusing on the challenges in creating immersive narrative experiences for the player, irrespective of the technical aspects of game production. The case studies presented have been carefully selected with the aim of proposing specific design approaches where narrative is one of the main features of the gaming experience. Therefore, the book is also aimed at gaming industry- experts who wish to tackle the notion of interactive storytelling to its full potential.



AUGUST 2021 240PP
978-1-119-68813-6 CL \$120.00 (Japan)
Computer Game Software

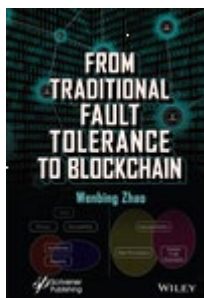
コンピュータサイエンス

From Traditional Fault Tolerance to Blockchain

WENBING ZHAO

This book covers the most essential techniques for designing and building dependable distributed systems, from traditional fault tolerance to the blockchain technology. Topics include checkpointing and logging, recovery-orientated computing, replication, distributed consensus, Byzantine fault tolerance, as well as blockchain.

This book intentionally includes traditional fault tolerance techniques so that readers can appreciate better the huge benefits brought by the blockchain technology and why it has been touted as a disruptive technology, some even regard it at the same level of the Internet. This book also expresses a grave concern on using traditional consensus algorithms in blockchain because with the limited scalability of such algorithms, the primary benefits of using blockchain in the first place, such as decentralization and immutability, could be easily lost under cyberattacks.



AUGUST 2021 464PP
978-1-119-68195-3 CL \$225.00 (Japan)
Client/Server Technologies

Visual Studio Code for Python Programmers

APRIL SPEIGHT

Become proficient and efficient with Visual Studio Code and learn how to integrate all your external tools!

Visual Studio Code for Python Programmers helps Python developers become not just familiar, but productive in Visual Studio Code. To start, you'll find the steps for installing Visual Studio Code on Windows, Mac and Linux platforms, along with an introduction to the editing features of the workspace.

Coverage of more advanced functionality includes managing source code, debugging, unit testing, and Jupyter Notebook support. The book finishes with a walk-through of real-world projects which utilize Visual Studio Code features introduced in the book.

For developers, the choice of an editor is a very personal one. You have idiosyncratic needs and wants that are unique to you as a developer. This book will help you learn how to customize Visual Studio Code to meet your needs and Python development workflow.



- Introduces you to the features of the Visual Studio Code workspace and how those features can be customized
 - Demonstrates how Visual Studio Code allows you to choose your structure according to your needs
 - Covers editing code in Python, including syntax highlighting, code completion, object definition, refactoring, and code navigation
 - Describes Git integration and how to perform common Git functions (commits, checkouts, branches, and merges) from within Visual Studio Code
 - Highlights debugging features for Python developers
- A final section on Real World Applications will step you through several examples (and features integration with Django, Flask, Jupyter Notebook, Docker, and Azure), so you can hit the ground running with Visual Studio Code.

AUGUST 2021 UnknownPP
978-1-119-77336-8 PB \$50.00 (Japan)
Object Technologies - Java

Reports, Dashboards and Apps Using Microsoft Power Platform

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

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



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

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

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

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

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

Digital Forensics and Internet of Things

Impact and Challenges

ANITA GEHLOT, RAJESH SINGH, JASKARAN SINGH & NEETA RAJ SHARMA

The book discusses applications and challenges professionals encounter in the burgeoning field of IoT forensics. IoT forensics attempts to align its workflow to that of any forensics practice—investigators identify, interpret, preserve, analyze and present any relevant data. Like any investigation, a timeline is constructed, and, with the aid of smart devices providing data, investigators might be able to capture much more specific data points than in a traditional crime. However, collecting this data can often be a challenge, as it frequently doesn't live on the device itself, but rather in the provider's cloud platform. If you are able to get the data off the device, you'll have to employ one of a variety of methods given the diverse nature of IoT devices hardware, software and firmware. So, while robust and insightful data is available, acquiring it is no small undertaking.

Digital Forensics and Internet of Things encompasses:

- State-of-the-art research and standards concerning IoT forensic and traditional digital forensics.
- Compares and contrasts IoT forensic techniques with those of traditional digital forensics standards.
- Identifies the driving factors of the slow maturation of IoT forensic standards and possible solutions.
- Applies recommended standards gathered from IoT forensic literature in hands-on experiments to test their effectiveness across multiple IoT devices.
- Provides educated recommendations on developing and establishing IoT forensic standards, research, and areas that merit further study.

AUGUST 2021 UnknownPP
978-1-119-76878-4 CL \$195.00 (Japan)
Artificial Intelligence

Industrial Internet of Things (IIoT)

Intelligent Analytics for Predictive Maintenance

R. ANANDAN, G. SUSEENDRAN, SOUVIK PAL & NOOR ZAMAN

The Industrial Internet of Things (IIoT) breakthrough technology is a key element to developing smart factories, integrating modern cloud computing, IIoT, and AI to create intelligent, self-optimizing industrial equipment and facilities. With the industrial robot market along is estimated to be \$75B by 2023, industry will be benefitting through

- Enhanced efficiency
- Higher accuracy and reduced errors
- Cost-effectiveness
- Lower power needs
- Increased control over operations

This book discusses and analyses all these developments and benefits along with the attendant requirements of new security protocols.

AUGUST 2021 UnknownPP
978-1-119-76877-7 CL \$225.00 (Japan)
Artificial Intelligence



Smart Intelligent Systems for Industrial Applications

EDITOR C. VENKATESH, EDITOR N. RENGARAJAN, EDITOR P. PONMURUGAN & EDITOR S. BALAMURUGAN

This book articulates the evolution and emergence of artificial intelligence in electrical systems. It summarizes the advantages, functions and prospective role of AI and computational intelligence in expert systems, machine learning, pattern recognition, artificial neural network and deep learning etc. The applications of AI in many domains are examined from various perspectives covering the basic principles and current methods that will prove useful instructions to all readers.

SERIES: ARTIFICIAL INTELLIGENCE AND SOFT COMPUTING
FOR INDUSTRIAL TRANSFORMATION

AUGUST 2021 UnknownPP
978-1-119-76200-3 CL \$225.00 (Japan)
Artificial Intelligence

Societal Responsibility of Artificial Intelligence

Towards an Ethical and Eco-responsible AI

EDITOR JEROME BERANGER

The digital world is characterized by its immediacy, its density of information and its omnipresence, in contrast to the concrete world. Significant changes will occur in our society as AI becomes integrated into many aspects of our lives. This book focuses on this vision of universalization by dealing with the development and framework of AI applicable to all. It develops a moral framework based on a neo Darwinian approach - the concept of Ethics by Evolution – to accompany AI by observing a certain number of requirements, recommendations and rules at each stage of design, implementation and use. The societal responsibility of artificial intelligence is an essential step towards ethical, eco-responsible and trustworthy AI, aiming to protect and serve people and the common good in a beneficial way

AUGUST 2021 256PP
978-1-78630-694-4 CL \$165.00 (Japan)
Artificial Intelligence

Archives in the Digital Age

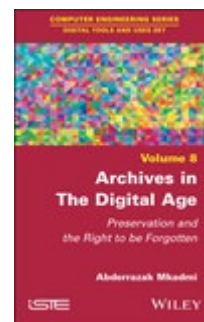
Protection and the Right to be Forgotten

ABDERRAZAK MKADMI

Archiving has become an increasingly complex process. The challenge is no longer how to store the data but how to store it intelligently, in order to exploit it over time, while maintaining its integrity and authenticity.

Digital technologies bring about major transformations, not only in terms of the types of documents that are transferred to and stored in archives, in the behaviors and practices of the humanities and social sciences (digital humanities), but also in terms of the volume of data and the technological capacity for managing and preserving archives (Big Data).

Archives in The Digital Age focuses on the impact of these various digital transformations on archives, and examines how the right to memory and the information of future generations is confronted with the right to be forgotten; a digital prerogative that guarantees individuals their private lives and freedoms.



JULY 2021 240PP
978-1-78630-676-0 CL \$165.00 (Japan)
Computer Security & Cryptography

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

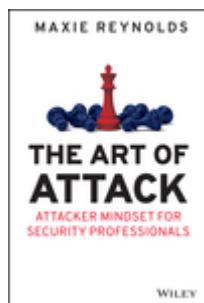
In *The Art of Attack: Attacker Mindset for Security Professionals*, experienced physical pentester and social engineer Maxie Reynolds untangles the threads of a useful, sometimes dangerous, mentality. The book shows ethical hackers, social engineers, and pentesters what an attacker mindset is and how 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.

AUGUST 2021 352PP
978-1-119-80546-5 PB \$30.00 (Japan)
Computer Security & Cryptography



IAPP CIPP / US Certified Information Privacy Professional Study Guide

MIKE CHAPPLE & JOE SHELLEY

University of Notre Dame

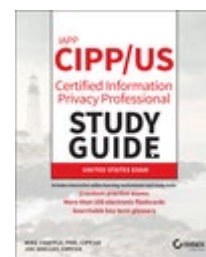
Prepare for success on the IAPP CIPP/US exam to further your career in privacy with this effective study guide

Information privacy has become a critical and central concern for small and large businesses across the United States. At the same time, the demand for talented professionals able to navigate the increasingly complex web of legislation and regulation regarding privacy continues to increase.

Written from the ground up to prepare you for the United States version of the Certified Information Privacy Professional (CIPP) exam, Sybex's *IAPP CIPP / US Certified Information Privacy Professional Study Guide* also readies you for success in the rapidly growing privacy field.

You'll efficiently and effectively prepare for the exam with online practice tests and flashcards as well as a digital glossary. The concise and easy-to-follow instruction contained in the *Study Guide* covers every aspect of the CIPP/US exam, including the legal environment, regulatory enforcement, information management, private sector data collection, law enforcement and national security, workplace privacy and state privacy law, and international privacy regulation.

Perfect for anyone considering a career in privacy or preparing to tackle the challenging IAPP CIPP exam as the next step you advance their existing privacy role, the *IAPP CIPP / US Certified Information Privacy Professional Study Guide* offers you an invaluable head start to success on the exam and in your career as an in-demand privacy professional.



AUGUST 2021 560PP
978-1-119-75546-3 PB \$50.00 (Japan)
Computer Security & Cryptography

The Official (ISC)² Guide to the CCSP CBK

3rd Edition

LESLIE FIFE, AARON KRAUS & BRYAN LEWIS

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

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

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

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

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

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

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



Security Issues and Privacy Concerns in Industry 4.0 Applications

SHIBLIN DAVID, R. S. ANAND, V. JEYAKRISHNAN & M. NIRANJANAMURTHY

The scope of *Security Issues, Privacy Concerns in Industry 4.0 Applications* is to envision the need for security in Industry 4.0 applications and the research opportunities for the future. This book discusses the security issues in the Industry 4.0 applications for research development. It will also enable the reader to develop solutions for the security threats and attacks that prevail in the industry. The chapters will be framed on par with advancements in the industry in the area of Industry 4.0 with its applications in additive manufacturing, cloud computing, IoT (Internet of Things), and many others. This book helps a researcher and an industrial specialist to reflect on the latest trend and the need for technological change in Industry 4.0.

Smart water management using IoT, cloud security issues with network forensics, regional language recognition for industry 4.0, IoT based health care management system, artificial intelligence for fake profile detection, and packet drop detection in agriculture-based IoT are covered in this outstanding new volume. Leading innovations such as smart drone for railway track cleaning, everyday life-supporting blockchain and big data, effective prediction using machine learning, classification of the dog breed based on CNN, load balancing using the SPE approach and cyber culture impact on media consumers are also addressed.

Whether a reference for the veteran engineer or an introduction to the technologies covered in the book for the student, this is a must-have for any library.

AUGUST 2021 267PP
978-1-119-77562-1 CL \$225.00 (Japan)
Computer Security & Cryptography

歯学

Physical Evaluation and Treatment Planning in Dental Practice

2nd Edition

GÉZA T TERÉZHALMY, MICHAEL A. HUBER, LILY T. GARCÍA & RONALD L OCCHIONERO

The University of Texas Health Science Center at San Antonio Dental School, San Antonio, Texas; University of Texas Health Science Center at San Antonio

The revised Second Edition of *Physical Evaluation and Treatment Planning in Dental Practice* has been expanded to include information pertinent when considering comprehensive treatment planning for a wide variety of dental procedures. Written by internationally recognized specialists and discipline experts in their field, the Second Edition offers new chapters on dental and oral diseases and disorders, including insights and diagnostics for each category. Readers will learn about diagnosis and planning considerations for orofacial pain, caries, periodontics, oral surgery, endodontics, restorative, prosthodontics and esthetic dentistry, and more.



Beginning with a complete introduction of oral health and associated systemic health, the book incorporates discussions of patient history profiles, basic procedures in physical examinations, including examination of the head, neck, extraoral and intraoral tissues, radiographic examination and interpretation, as well as laboratory methods.

Designed for general dental practitioners, periodontists, prosthodontists, dental residents and fellows, and dental students, *Physical Evaluation and Treatment Planning in Dental Practice* is a logically organized one-stop reference for patient evaluation and treatment.

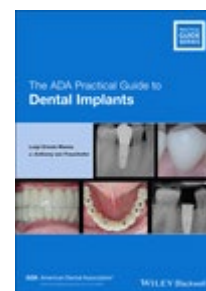
AUGUST 2021 UnknownPP
978-1-118-64658-8 PB \$99.99 (Japan)
GENERAL DENTISTRY

The ADA Practical Guide to Dental Implants

LUIGI O. MASSA & J. ANTHONY VON FRAUNHOFER

Premier Dental Center, Boerne, Texas, USA; Baltimore College of Dental Surgery Dental School, University of Maryland.

This clinically oriented book gives dental practitioners and students a hands-on guide to incorporating dental implants into their practices. Taking a clear and concise approach to the subject, the book offers basic information on all aspects of dental implants. Topics covered encompass the pros and cons of implants, patient factors, clinical considerations to success and failure, and implant restoration. Photographs, radiographs, and illustrations support the text, demonstrating the concepts discussed.



The ADA Practical Guide to Dental Implants starts with a brief history of the subject then examines the clinical and economic considerations for implants. Patient factors, including systemic, oral, and periodontal health, diet, age, gender, and more are discussed. The book also looks at the experience of the clinician, followed by clinical considerations such as case planning, implant design, surgical techniques, antibiotics, and more. The last chapters cover post-surgical follow-up and the many factors that lead to a successful outcome.

The ADA Practical Guide to Dental Implants is a useful introduction and guide to dental implants for any practitioner interested in incorporating implants into clinical practice.

SERIES: ADA PRACTICAL GUIDE

AUGUST 2021 192PP
978-1-119-63069-2 PB \$99.99 (Japan)
Implant Dentistry

教育

Wright's Behavior Management in Dentistry for Children

3rd Edition

EDITOR ARI KUPIETZKY

Private Practice and Hebrew University-Hadassah, Jerusalem, Israel

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

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

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

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

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

The Together Teacher

Plan Ahead, Get Organized, and Save Time!

2nd Edition

MAIA HEYCK-MERLIN & FOREWORD BY NORMAN ATKINS

An essential guide for today's over-scheduled teachers

Teaching is a tough job, period. With so much pressure and so many competing demands, it can be easy to fall apart, or to get lost in the daily grind. *The Together Teacher: Plan Ahead, Get Organized, and Save Time!* is a practical resource that shows teachers how to get it together, to be effective and have a life! Author and educator Maia Heyck-Merlin reveals the life-hacks and habits of Together Teachers, from smart time management hacks to sanity-saving tech. The end goal is always strong outcomes for their students.



In this book, you'll discover the concrete steps you can take to achieve greater stability and success in your classroom and in your life. This edition adds sections on efficient lesson planning, grading, and data analysis processes, balance and self-care, juggling teaching with other responsibilities like leading a grade level, managing family communications, and new online resources. The workbook contains all-new rubrics, practice sections, and reflection questions to help you dig in to the content and get your days running like clockwork.

Perfect for early-career K-12 teachers as well as specialists (social workers, music teachers, etc.), *The Together Teacher, Second Edition* includes access to exclusive online extras, including videos and much more.

AUGUST 2021 336PP
978-1-119-54259-9 PB \$24.95 (Japan)
K-12 GENERAL

Engaging Ideas

The Professor's Guide to Integrating Writing, Critical Thinking, and Active Learning in the Classroom, 3rd Edition

JOHN C. BEAN, VASHON ISLAND & DAN MELZER

Seattle University, Seattle, WA

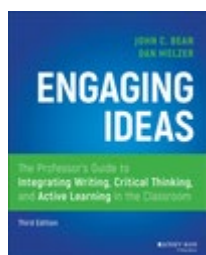
Use your course's big ideas to accelerate students' growth as writers and critical thinkers

The newly revised third edition of *Engaging Ideas* delivers a step-by-step guide for designing writing assignments and critical thinking activities that engage students with important subject-matter questions. This new edition of the celebrated book (now written by the co-author team of Bean and Melzer) uses leading and current research and theory to help you link active learning pedagogy to your courses' subject matter. You'll learn how to:

- Design formal and informal writing assignments that guide students toward thinking like experts in your discipline
- Use time-saving strategies for coaching the writing process and handling the paper load including alternatives to traditional grading such as portfolio assessment and contract grading
- Help students use self-assessment and peer response to improve their work
- Develop better ways than the traditional research paper to teach undergraduate reading and research
- Integrate social media, multimodal genres, and digital technology into the classroom to promote active learning

This book demonstrates how writing can easily be integrated with other critical thinking activities such as inquiry discussions, simulation games, classroom debates, and interactive lectures. The reward of this book is watching students come to class better prepared, more vested in the questions your course investigates, more apt to study purposefully, and more likely to submit high-quality work. Perfect for higher education faculty and curriculum designers across all disciplines, *Engaging Ideas* will also earn a place in the libraries of graduate students in higher education.

AUGUST 2021 368PP
978-1-119-70540-6 PB \$45.00 (Japan)
TEACHING & LEARNING (HIGHER EDUCATION)



Online Teaching at Its Best

Merging Instructional Design with Teaching and Learning Research, 2nd Edition

LINDA B. NILSON & LUDWIK A. GOODSON

Clemson University

Bring pedagogy and cognitive science to online learning environments

Online Teaching at Its Best: Merging Instructional Design with Teaching and Learning Research, 2nd Edition, is the scholarly resource for online learning that faculty, instructional designers, and administrators have raved about.

This book addresses course design, teaching, and student motivation across the continuum of online teaching modes--remote, hybrid, hyflex, and fully online--integrating these with pedagogical and cognitive science, and grounding its recommendations in the latest research. The book will help you design or redesign your courses to ensure strong course alignment and effective student learning in any of these teaching modes. Its emphasis on evidence-based practices makes this one of the most scholarly books of its kind on the market today.

This new edition features significant new content including more active learning formats for small groups across the online teaching continuum, strategies and tools for scripting and recording effective micro-lectures, ways to integrate quiz items within micro-lectures, more conferencing software and techniques to add interactivity, and a guide for rapid transition from face-to-face to online teaching. You'll also find updated examples, references, and quotes to reflect more evolved technology.

Distance is no barrier to a great education. *Online Teaching at Its Best* provides practical, real-world advice grounded in educational and psychological science to help online instructors, instructional designers, and administrators deliver an exceptional learning experience even under emergency conditions.



AUGUST 2021 272PP
978-1-119-76501-1 PB \$46.00 (Japan)
TEACHING & LEARNING (HIGHER EDUCATION)

The Online Teaching Survival Guide

Simple and Practical Pedagogical Tips

3rd Edition

JUDITH V. BOETTCHER, TALLAHASSEE & RITA-MARIE CONRAD,
CHAPEL HILL

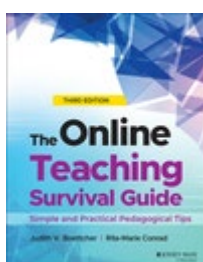
University of Florida ; Florida State University

A timely update to the best-selling, practical, and comprehensive guide to online teaching

The Online Teaching Survival Guide provides a robust overview of theory-based techniques for teaching online or technology-enhanced courses. This Third Edition is a practical resource for educators learning to navigate the online teaching sector. It presents a framework of simple, research-grounded instructional strategies that work for any online or blended course. This new edition is enhanced with hints on integrating problem-solving strategies, assessment strategies, student independence, collaboration, synchronous strategies, and building metacognitive skills. This book also reviews the latest research in cognitive processing and related learning outcomes.

New and experienced online teachers alike will appreciate this book's exploration of essential technologies, course management techniques, social presence, community building, discussion and questioning techniques, assessment, debriefing, and more. With more and more classes being offered online, this book provides a valuable resource for taking your course to the next level.

Recently, schools across the globe have experienced a shift to online courses and teaching. The theories and techniques of synchronous virtual online teaching are vastly different from traditional educational pedagogy. You can overcome the learning curve with this theory-based, hands-on guide.



AUGUST 2021 400PP
978-1-119-76500-4 PB \$40.00 (Japan)
ONLINE TEACHING AND LEARNING

Life Skills Activities for Secondary Students with Special Needs

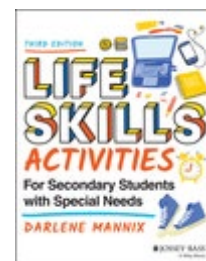
3rd Edition

DARLENE MANNIX, LA PORTE, UNITED STATES

Help students with special needs thrive with over 160 updated educational activities

In the newly revised Third Edition of *Life Skills Activities for Secondary Students with Special Needs*, teacher and author Darlene Mannix delivers a unique collection of over 160 updated activity sheets with related exercises, discussion questions, and evaluation suggestions to help students gain basic skills necessary for independence and success. Each activity sheet focuses on a specific skill in a real-world context and includes teacher directions for objectives, introduction, optional extension activities, and assessment methods. This crucial book includes:

- Activity sheets and corresponding introductions in a wide variety of critical life skills such as interpersonal, communication, academic and school, practical living, and more
- Coverage of leisure activities and the importance of finding fulfilling hobbies and pastimes
- Tools to help students build their self awareness and understand their strengths and weaknesses



Perfect for special educators, general education teachers, school counselors, and psychologists, *Life Skills Activities for Secondary Students with Special Needs* will also earn a place in the libraries of other professionals working with special needs children, as well as the parents of those children.

AUGUST 2021 672PP
978-1-119-78876-8 PB \$32.95 (Japan)
SPECIAL EDUCATIONAL NEEDS

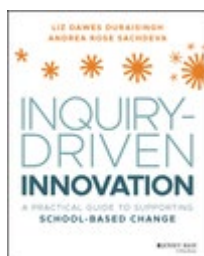
Inquiry-Driven Innovation

A Practical Guide to Supporting School-Based Change

LIZ DAWES-DURAISINGH & ANDREA R. SACHDEVA

Promote positive change and elevate teacher practice with this actionable framework for school-based innovation

Inquiry-Driven Innovation: A Practical Guide to Supporting School-Based Change addresses a pressing need for intentional and sustained innovation in education. It is both a practical guide for supporting school-based change and a handbook for effective professional development that empowers and re-energizes practitioners. Throughout this book, educators will find a wealth of examples from different school contexts and a rich array of research-based pedagogical tools and resources.



In recent years, educational innovation and school redesign have been the focus for many school boards and departments of education. However, current school-based innovation methods typically lack flexibility and intentionality. *Inquiry-Driven Innovation* offers an approach to innovation that recognizes local contexts, promotes listening across stakeholder groups, and suggests structures for ongoing and purpose-driven work.

- Discover an actionable framework for school-based innovation
- Learn from real-world case studies of educators developing innovation strategies in a variety of school contexts
- Explore an Innovation Toolkit filled with research-based pedagogical tools and resources for educators

In this book, you'll learn the five essential qualities of Inquiry-Driven Innovation: an ongoing process that empowers individuals and communities to pursue positive change that is both relevant and responsive to their contexts. Inquiry-Driven Innovation is purposeful and intentional; attentive to multiple perspectives; adapted to context; sustained and iterative; and structured and supported. Read this book to learn how you can implement evidence-based innovation strategies in your own community.

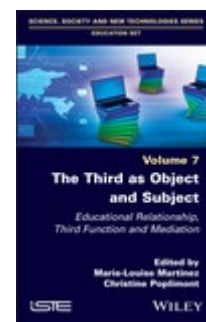
AUGUST 2021 192PP
978-1-119-67535-8 PB \$29.95 (Japan)
Education Special Topics

The Third as Object and Subject

Educational Relationship, Third Function and Mediation

EDITOR MARIE-LOUIS MARTINEZ & EDITOR CHRISTINE POPLIMONT

The role of the third party is often played by a material or psychic object or by a living being, then called the 'subject?'. The third party enables relationships, especially in education. According to Michel Vial, 'the third object is a medium that sends the subject back to themselves and allows them to work on their change, to regulate themselves, to evaluate themselves?'. If the object can exercise the role of the third party in interpersonal or intrapersonal relations, it is always the subject and the subject's relationship with another human being, or with the group, that benefits or suffers from it. Paradoxically, it may well be that the condition of possibility enabling the process of personification is the third party, the 'non-person?', as Benveniste claimed. This book is intended for relationship professionals, educators, parents, teachers, facilitators and trainers, as well as caregivers and therapists, in order to help them understand the issue of the third party



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

電気電子工学

LOGO! 8

A Practical Introduction, with Circuit Solutions and Example Programs, 2nd Edition

STEFAN KRUSE, VOLKER TORGAU & KAI-CHRISTIAN TOENNSEN

Addressing students and engineers, but also hobby engineers, this practical guide will help to easily and cost-effectively implement technical solutions in home and installation technology, as well as small-scale automation solutions in machine and plant engineering.

The book descriptively illustrates how to plan LOGO! 8 projects, develop programs and how to select the hardware. Standard control technology scenarios are demonstrated by practical examples. In addition, readers are provided with practice-oriented descriptions of various basic and special LOGO! 8 modules with which specific tasks can be very flexibly implemented.

For the second edition, the book has been completely revised. It describes new functionalities like ModBus, access to the LOGO! with smartphone, clock synchronization of several devices via web server, as well as transfer of data to an Excel application on PC by use of the LOGO! access tool. Particular emphasis was laid on elegant and easy programming; additional info boxes with practical tips allow to develop optimum solutions. All programming examples are also available for download.



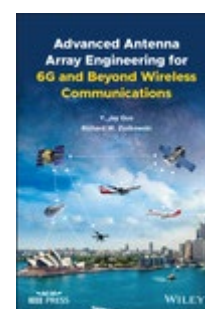
AUGUST 2021 176PP
978-3-89578-481-1 PB \$29.95 (Japan)
GENERAL & INTRODUCTORY ELECTRICAL & ELECTRONICS ENGINEERING

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.

AUGUST 2021 400PP
978-1-119-71290-9 CL \$135.00 (Japan)
Antennas & Propagation

The Wiley 5G REF

Security

EDITOR-IN-CHIEF RAHIM TAFAZOLLI, UNITED KINGDOM,
EDITOR-IN-CHIEF CHIN-LIANG WANG, EDITOR-IN-CHIEF PERIKLIS
CHATZIMISIOS & SERIES EDITOR MADHUSANKA LIYANAGE

University of Surrey, UK

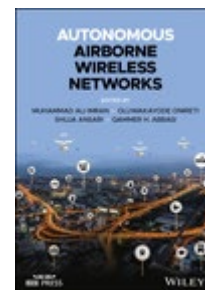
Wiley 5G Ref offers a user-friendly format that provides the user with article-level, in-depth technical surveys on all aspects of 5G solutions, architectures, technologies and standards for researchers, practitioners and students in information and communication engineering, computer science and engineering, and telecommunication networking.

AUGUST 2021 350PP
978-1-119-82031-4 CL \$120.00 (Japan)
Communication System Security

Autonomous Airborne Wireless Networks

EDITOR MUHAMMAD ALI IMRAN, EDITOR OLUWAKAYODE
ONIRETI & EDITOR QAMMER H. ABBASI

Discover what lies beyond the bleeding-edge of autonomous airborne networks with this authoritative new resource



Autonomous Airborne Wireless Networks delivers an insightful exploration of recent advances in the theory and practice of using airborne wireless networks to provide emergency communications, coverage and capacity expansion, information dissemination, and more. The distinguished engineers and editors have selected resources that cover the fundamentals of airborne networks, including channel models, recent regulation developments, self-organized networking, AI-enabled flying networks, and notable applications in a variety of industries.

The book evaluates advances in the cutting-edge of unmanned aerial vehicle wireless network technology while offering readers new ideas on how airborne wireless networks can support various applications expected of future networks. The rapidly developing field is examined from a fresh perspective, one not just concerned with ideas of control, trajectory optimization, and navigation.

Autonomous Airborne Wireless Networks considers several potential use cases for the technology and demonstrates how it can be integrated with concepts from self-organized network technology and artificial intelligence to deliver results in those cases.

Perfect for telecom engineers and industry professionals working on identifying practical and efficient concepts tailored to overcome challenges facing unmanned aerial vehicles providing wireless communications, *Autonomous Airborne Wireless Networks* also has a place on the bookshelves of stakeholders, regulators, and research agencies working on the latest developments in UAV communications.

SERIES: WILEY – IEEE

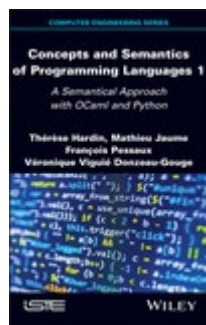
AUGUST 2021 320PP
978-1-119-75168-7 CL \$140.00 (Japan)
Communication Technology - Networks

Concepts and Semantics of Programming Languages 1

A Semantical Approach with OCaml and Python

THERESE HARDIN, MATHIEU JAUME, FRANCOIS PESSAUX & VERONIQUE VIGUIE DONZEAU-GOUGE

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



Concepts and Semantics of Programming Languages 1 is

dedicated to functional and imperative features. Included is the formal study of the semantics of typing and execution; their acquisition is facilitated by implementation into OCaml and Python, as well as by worked examples. Data representation is considered in detail: endianness, pointers, memory management, union types and pattern-matching, etc., with examples in OCaml, C and C++. The second volume introduces a specific model for studying modular and object features and uses this model to present Ada and OCaml modules, and subsequently Java, C++, OCaml and Python classes and objects.

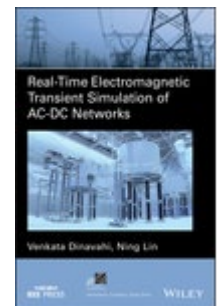
This book is intended not only for computer science students and teachers but also seasoned programmers, who will find a guide to reading reference manuals and the foundations of program verification.

AUGUST 2021 336PP
978-1-78630-530-5 CL \$165.00 (Japan)
Computer Engineering

Real-Time Electromagnetic Transient Simulation of AC-DC Networks

VENKATA DINAVAHI & NING LIN

This book provides a detailed exposition of field-programmable gate array (FPGA) hardware-based real-time electromagnetic transient (EMT) emulation for all the fundamental equipment used in an AC-DC power system. Specific focus is afforded to: (a) detailed device-level models for their hardware realization in a massively parallel and deeply pipelined manner, and (b) decomposition techniques for emulating large systems. Case studies provided in the book range from small didactic test circuits to realistic-sized large-scale AC-DC grids. In each of chapter, different models, solution algorithms, and hardware emulation are provided. In the first chapter, the FPGA and hardware-in-the-loop (HIL) emulation procedure are introduced, which will be used in following chapters. And the last chapter covers large-scale networks, which are constructed by fundamental components explained in previous chapters.



SERIES: IEEE PRESS SERIES ON POWER AND ENERGY SYSTEMS

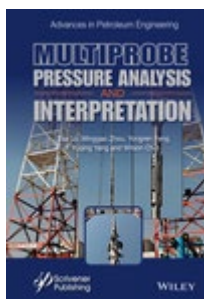
AUGUST 2021 576PP
978-1-119-69544-8 CL \$150.00 (Japan)
Power Electronics

エネルギー

Multiprobe Pressure Analysis and Interpretation

EDITOR TAO LU, EDITOR MINGGAO ZHOU, EDITOR YONGREN FENG, EDITOR YUQING YANG & SERIES EDITOR WILSON CHIN

A popular 1990s formation tester with a single "pumping" probe and one passive "observation port" displaced 180 deg away, designed to measure pressures at two locations for permeability prediction, encounters well known detection problems at low mobilities. This book, using aerodynamics methods, explains why and also reveals the existence of a wide stagnation zone that hides critical formation details. And it does much more. An exact analytical solution is used to validate a new transient, three-dimensional, finite difference model for more general testers, one that guides new hardware designs with independent azimuthally displaced probes having with different rates, flow schedules and nozzle geometries, supports interpretation and formation evaluation, and assists with job planning at the rigsite. The methods also apply to conventional tools, allowing comparisons between older and newer technologies. Importantly, the authors introduce a completely new three-probe design with independently operable active elements that eliminate all older tool deficiencies. Numerous subjects are discussed, such as pressure transient analyses with multiple operating probes, supercharge analysis with invasion and mudcake buildup, accurate and rapid calculations that allow more than 1,000 simulations per minute, extremely rapid batch mode calculations using convergence acceleration methods, rapid fluid withdrawal with minimal dissolved gas release, dip angle, heterogeneity and anisotropy evaluation, and many other topics. In addition, tool operation sequences, detailed engineering and design functions, field test procedures and laboratory facilities, are discussed and illustrated in photographs that go "behind the scenes" at one of the world's largest international oil service companies. The book hopes to educate new engineers and veteran engineers alike in hardware and software design at a time when increasing efficiency is crucial and "doing more with less" represents the new norm.



SERIES: ADVANCES IN PETROLEUM ENGINEERING

AUGUST 2021 416PP
978-1-119-76065-8 CL \$225.00 (Japan)
Fossil Fuels

Supercharge, Invasion, and Mudcake Growth in Downhole Applications

EDITOR WILSON CHIN, EDITOR TAO LU, EDITOR XIAOFEI QIN, EDITOR YONGREN FENG & EDITOR YANMIN ZHOU

Mysterious "supercharge effects," encountered in formation testing pressure transient analysis, and reservoir invasion, mudcake growth, dynamic filtration, stuck-pipe remediation, and so on, are often discussed in contrasting petrophysical versus drilling contexts. However, these effects are physically coupled and intricately related. The authors focus on a comprehensive formulation, provide solutions for different specialized limits, and develop applications that illustrate how the central ideas can be used in seemingly unrelated disciplines. This approach contributes to a firm understanding of logging and drilling principles. Fortran source code, furnished where applicable, is listed together with recently developed software applications and conveniently summarized throughout the book. In addition, common (incorrect) methods used in the industry are re-analyzed and replaced with more accurate models, which are then used to address challenging field objectives. Sophisticated mathematics is explained in "down to earth" terms, but empirical validations, in this case through Catscan experiments, are used to "keep predictions honest." Similarly, early-time, low mobility, permeability prediction models used in formation testing, several invented by one of the authors, are extended to handle supercharge effects in overbalanced drilling and near-well pressure deficits encountered in underbalanced drilling. These methods are also motivated by reality. For instance, overpressures of 2,000 psi and under pressures near 500 psi are routinely reported in field work, thus imparting a special significance to the methods reported in the book.

This new volume discusses old problems and modern challenges, formulates and develops advanced models applicable to both drilling and petrophysical objectives. The presentation focuses on central unifying physical models which are carefully formulated and mathematically solved. The wealth of applications examples and supporting software discussed provides readers with a unified focus behind daily work activities, emphasizing common features and themes rather than unrelated methods and work flows. This comprehensive book is "must" reading for every petroleum engineer.

SERIES: ADVANCES IN PETROLEUM ENGINEERING

AUGUST 2021 513PP
978-1-119-28332-4 CL \$225.00 (Japan)
Fossil Fuels

環境科学

Towards a Political Education Through Environmental Issues

MELKI SLIMANI

The growing field of political education through environmental issues is organized around processes, which reach beyond the formal ones found in academic disciplines and national curricula into informal processes (such as social mobilization) and nonformal processes (such as those found in various international educational recommendations).



Using theoretical approaches from the fields of political philosophy and the social sciences, this book develops a simultaneously conceptual and analytical framework for the political in educational content involving environmental issues. This framework is then used to empirically analyze educational content on sustainable development formulated by UNESCO, as well as the Tunisian curriculum. The theoretical and empirical studies carried out in this book lead to proposed curriculum tags for political education through environmental issues, with the intent of opening this field to inclusion in the didactics of curriculum research.

AUGUST 2021 224PP
978-1-78630-588-6 CL \$165.00 (Japan)
Environmental Economics & Politics

地球科学

Crustal Magmatic System Evolution: Anatomy, Architecture, and Physico-Chemical Processes

EDITOR MATTEO MASOTTA, EDITOR CHRISTOPH BEIER & EDITOR SILVIO MOLLO

A comprehensive picture of the architecture of crustal magmatic systems

The composition of igneous rocks -- their minerals, melts, and fluids -- reveals the physical and chemical conditions under which magmas form, evolve, interact, and move from the Earth's mantle through the crust. These magma dynamics affect processes on the surface including crustal growth and eruptive behaviour of volcanoes.



Crustal Magmatic System Evolution: Anatomy, Architecture, and Physico-Chemical Processes uses analytical, experimental, and numerical approaches to explore the diversity of crustal processes from magma differentiation and assimilation to eruption at the surface.

Volume highlights include:

- Physical and chemical parameterization of crustal magmatic systems
- Experimental, theoretical and modelling approaches targeting crustal magmatic processes
- Timescales of crustal magmatic processes, including storage, recharge, and ascent through volcanic conduits

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

SERIES: GEOPHYSICAL MONOGRAPH SERIES

AUGUST 2021 256PP
978-1-119-56445-4 CL \$199.95 (Japan)
Geology & Geophysics

Reconstructing Earth's Climate History

Inquiry-Based Exercises for Lab and Class

2nd Edition

KRISTEN ST. JOHN

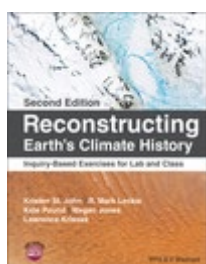
James Madison University

There has never been a more critical time for students to understand the record of Earth's climate history, as well as the relevance of that history to understanding Earth's present and likely future climate. There also has never been a more critical time for students, as well as the public-at-large, to

understand how we know, as much as what we know, in science. This book addresses these needs by placing you, the student, at the center of learning. In this book, you will actively use inquiry-based explorations of authentic scientific data to develop skills that are essential in all disciplines: making observations, developing and testing hypotheses, reaching conclusions based on the available data, recognizing and acknowledging uncertainty in scientific data and scientific conclusions, and communicating your results to others.

In using this book, we hope you gain new knowledge, new skills, and greater confidence in making sense of the causes and consequences of climate change. Our goal is that science becomes more accessible to you. Enjoy the challenge and the reward of working with scientific data and results!

Reconstructing Earth's Climate History, Second Edition, is an essential purchase for geoscience students at a variety of levels studying paleoclimatology, oceanography, paleoceanography, historical geology, global change, Quaternary science and Earth-system science.



AUGUST 2021 576PP
978-1-119-54411-1 PB \$95.00 (Japan)
CLIMATOLOGY & PALEOCLIMATOLOGY

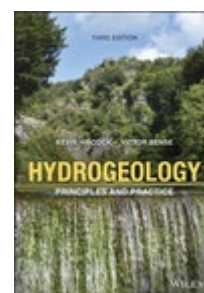
Hydrogeology

Principles and Practice, 3rd Edition

KEVIN M. HISCOCK & VICTOR F. BENNE

University of East Anglia; University of East Anglia, UK

Hydrogeology: Principles and Practice provides a comprehensive introduction to the study of hydrogeology to enable the reader to appreciate the significance of groundwater in meeting current and future environmental and sustainable water resource challenges. This new edition has been thoroughly updated to reflect advances in the field since 2014 and includes over 350 new references.



The book presents a systematic approach to understanding groundwater starting with new insights into the distribution of groundwater in the Earth's upper continental crust and the role of groundwater as an agent of global material and elemental fluxes. Following chapters explain the fundamental physical and chemical principles of hydrogeology, and later chapters feature groundwater field investigation techniques in the context of catchment processes, as well as chapters on groundwater quality and contaminant hydrogeology, including a section on emerging contamination from microplastic pollution.

Unique features of the book are chapters on the application of environmental isotopes and noble gases in the interpretation of aquifer evolution, and a discussion of regional characteristics such as topography, compaction and variable fluid density on geological processes affecting past, present and future groundwater flow regimes. The last chapter discusses future challenges for groundwater governance and management for the long-term sustainability of groundwater resources, including the role of managed aquifer recharge, and examines the linkages between groundwater and climate change, including impacts on cold-region hydrogeology. Given the drive to net-zero carbon emissions by 2050, the interaction of groundwater in the exploitation of energy resources, including renewable resources and shale gas, is reviewed.

AUGUST 2021 600PP
978-1-119-56953-4 PB \$95.00 (Japan)
GROUNDWATER & HYDROGEOLOGY

ファイナンス／インベストメント

Open Channel Design

Fundamentals and Applications

ERNEST W. TOLLNER

Professor of Biological and Agricultural Engineering at the
University of GeorgiaSEPTEMBER 2021 500PP
978-1-119-66424-6 CL \$130.00 (Japan)
Fluvial Hydrology & Limnology**The 5 Mistakes Every Investor Makes and How to Avoid Them**

Getting Investing Right, 2nd Edition

PETER MALLOUK

This book, from New York Times best-selling author Peter Mallouk, will help you avoid the mistakes that stand in the way of investment success!

A reliable resource for investors who want to make more informed choices, this book steers readers away from past investment errors and guides them in the right direction. *The Five Mistakes Every Investor Makes and How to Avoid Them*, Second Edition, focuses on what investors do wrong, so you can avoid these common errors and set yourself on the right path to success. In this comprehensive reference, you'll learn to navigate the ever-changing variables and market dilemmas that can make investing a risky and daunting endeavor. In this Second Edition, Peter Mallouk shares new investment techniques, an expanded discussion of the importance of disciplined investment management, and updated advice on avoiding common pitfalls.

In this updated Second Edition, you'll find a workable, sensible investment framework that shows you how to refrain from fighting the market, misunderstanding performance, and letting your biases and emotions get in the way of investing success.

- Offers updated discussion and investment techniques to improve your performance in today's market conditions
- Details the major mistakes made by professional and everyday investors, including fighting the market, overactive trading, and not having an endgame
- Highlights the strategies and mindset necessary for navigating ever-changing variables and market dilemmas
- Includes useful investment techniques and discusses the importance of discipline in investment management

The Five Mistakes Every Investor Makes and How to Avoid Them, Second Edition leads you in the right investing direction and provides a roadmap that you can follow for a lifetime.

AUGUST 2021 192PP
978-1-119-79433-2 CL \$24.95 (Japan)
GENERAL FINANCE & INVESTMENTS

Enterprise Risk Management

Today's Leading Research and Best Practices for Tomorrow's Executives, 2nd Edition

EDITOR JOHN R. S. FRASER, EDITOR ROB QUAIL & EDITOR BETTY SIMKINS, STILLWATER

Loyola University, Chicago; Spears School of Business

Unlock the incredible potential of enterprise risk management

There has been much evolution in terms of ERM best practices, experience, and standards and regulation over the past decade. *Enterprise Risk Management: Today's Leading Research and Best Practices for Tomorrow's Executives, Second Edition* is the revised and updated essential guide to the now immensely popular topic of enterprise risk management (ERM). With contributions from leading academics and practitioners, this book offers insights into what practitioners are doing and what the future holds. You'll discover how you can implement best practices, improve ERM tools and techniques, and even learn to teach ERM. Retaining the holistic approach to ERM that made the first edition such a success, this new edition adds coverage of new topics including cybersecurity risk, ERM in government, foreign exchange risk, risk appetite, innovation risk, outsourcing risk, scenario planning, climate change risk, and much more. In addition, the new edition includes important updates and enhancements to topics covered in the first edition; so much of it has been revised and enhanced that it is essentially an entirely new book.



Enterprise Risk Management introduces you to the concepts and techniques that allow you to identify risks and prioritize the appropriate responses. This invaluable guide offers a broad overview, covering key issues while focusing on the principles that drive effective decision making and determine business success. This comprehensive resource also provides a thorough introduction to ERM as it relates to credit, market, and operational risk, as well as the evolving requirements of the board of directors' role in overseeing ERM.

AUGUST 2021 912PP
978-1-119-74148-0 CL \$100.00 (Japan)
INSTITUTIONAL & CORPORATE FINANCE

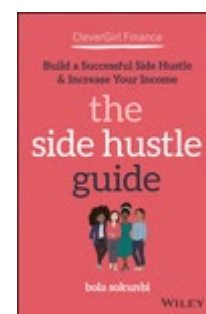
Clever Girl Finance: The Side Hustle Guide

Build a Successful Side Hustle and Increase Your Income

BOLA SOKUNBI

Get the straight goods on how to build a thriving side hustle from someone who's been there before

In *Clever Girl Finance: The Side Hustle Guide*, celebrated finance expert, influencer, CEO, and author Bola Sokunbi delivers your own personal key to unlocking more money, more freedom, and more security in your life. You'll find out how to achieve financial prosperity by leveraging a side hustle business to increase your income and build wealth.



You'll discover how to:

- Build your confidence, eliminate your fears, and strengthen your focus
- Establish a strong foundation for your new business, even without prior experience
- Create a solid plan to brand, market, and grow a business your customers won't be able to get enough of
- Write a realistic financial plan for your side hustle and to create long-term wealth

Perfect for those with a side hustle dream and some energy to spare, *Clever Girl Finance: The Side Hustle Guide* will also earn a place in the libraries of anyone who's ever thought about building a successful and profitable side hustle from the ground up but didn't know where to start.

AUGUST 2021 240PP
978-1-119-77137-1 PB \$19.95 (Japan)
Personal Finance

Investing in Your 20s & 30s For Dummies

3rd Edition

ERIC TYSON, WESTON

Take advantage of the decades ahead and invest in your financial future today

You may be at the stage of your life where you're still watching every penny, but you know the earlier you invest, the more time your money has to work for you. *Investing in Your 20s & 30s For Dummies* provides novice investors with time-tested advice, along with strategies that reflect today's market conditions. You'll get no-nonsense guidance on how to invest in stocks, bonds, funds, and even real estate—complete with definitions of all the must-know lingo. You'll also learn about the latest investment trends, including using robo-advisors to manage your portfolio, relying on apps to make fast trades, and putting your hard-earned cash in digital currencies. Armed with the knowledge and strategies in this book, you can invest wisely, monitor your progress, and avoid risking too much. Today's investing landscape is changing at record speed, and this book helps you keep up. Find information on the latest tax laws, financial lessons learned from the COVID-19 pandemic, and popular funds for the 2020s.

- Learn the investment basics you need to get started
- Discover new tools and technologies that make it easier than ever to participate in the market
- Build a diverse portfolio that reflects your values, financial goals, and risk tolerance
- Feel more confident as you fund an investment account, choose equities or funds, and plan for the future
- Make an impact with your money by selecting socially responsible investments
- Figure out how much money to invest in employer-sponsored accounts or other retirement plans

If you're a little unsure about stepping into the world of investing, *Investing in Your 20s & 30s For Dummies* gives you the confidence you need to establish a smart investment strategy. Grab your copy today.

AUGUST 2021 304PP
978-1-119-80540-3 PB \$22.99 (Japan)
PERSONAL FINANCE



The Credit Default Swap Basis

2nd Edition

MOORAD CHOUDHRY, UNITED KINGDOM

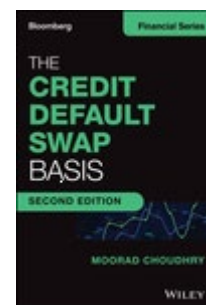
University of London

An up-to-date resource on the intricacies of the credit default swap basis

While credit default swaps and credit derivatives are of great concern to many in the field of finance, the *Second Edition* of *The Credit Default Swap Basis* does not directly focus on these issues. It is instead about an aspect of CDS behavior, the basis, which is of importance to all users of CDS products. An understanding of the basis is essential to anyone involved in the credit-risky debt capital markets, whether you're an investor, trader, or broker.

The credit default swap basis (the basis) defines the relationship between the cash and synthetic credit markets. Finance professionals need to understand the drivers of the basis in order to better undertake investment and value analysis, and for trading purposes. In this updated *Second Edition*, author Moorad Choudhry, a market practitioner who has published widely in the field of credit derivatives, explores this dynamic discipline and examines the structural changes in the CDS market, including new settlement mechanisms and contract standardization. Along the way, he describes how basis pricing has changed in the aftermath of the financial crisis and what that change means in regard to overall market and trading opportunities.

The Credit Default Swap Basis, Second Edition offers invaluable market insights to all financial professionals seeking a deeper understanding of credit derivatives and fixed income securities.



SERIES: BLOOMBERG FINANCIAL

AUGUST 2021 224PP
978-0-470-91583-7 CL \$95.00 (Japan)
FINANCE & INVESTMENTS SPECIAL TOPICS

食品科学

Packaging Materials and Processing for Food, Pharmaceuticals and Cosmetics

FREDERIC DEBEAUFORT, KATA GALIC, MIA KUREK,
NASREDDINE BENBETTAIEB & MARIO SCETAR

This book provides valuable information on a range of food packaging topics. It serves as a source for students, professionals and packaging engineers who need to know more about the characteristics, applications and consequences of different packaging materials in food-packaging interactions.

This book is divided into 13 chapters and focuses on the agro-food, cosmetics and pharmaceutical sectors. The first four chapters cover traditional packaging materials: wood, paper and cardboard, glass and metal. The next two deal, respectively, with plastics and laminates. Bio-based materials are then covered, followed by a presentation of active and smart packaging. Some chapters are also dedicated to providing information on caps and closures as well as auxiliary materials. Different food packaging methods are presented, followed by an investigation into the design and labelling of packaging. The book ends with a chapter presenting information on how the choice of packaging material is dependent on the characteristics of the food products to be packaged.



AUGUST 2021 400PP
978-1-78945-039-2 CL \$165.00 (Japan)
Food Packaging

Advanced Fermentation and Cell Technology

BYONG H. LEE

Jiangnan University, Wuxi, China; McGill University, Montreal, QC, Canada

A comprehensive and up-to-date reference covering both conventional and novel industrial fermentation technologies and their applications

Fermentation and cell culture technologies encompass more than the conventional microbial and enzyme systems used in the agri-food, biochemical, bioenergy and pharmaceutical industries. New technologies such as genetic engineering, systems biology, protein engineering, and mammalian cell and plant cell systems are expanding rapidly, as is the demand for sustainable production of bioingredients, drugs, bioenergy and biomaterials. As the growing biobased economy drives innovation, industrial practitioners, instructors, researchers, and students must keep pace with the development and application of novel fermentation processes and a variety of cell technologies.



Advanced Fermentation and Cell Technology provides a balanced and comprehensive overview of the microbial, mammalian, and plant cell technologies used by the modern biochemical process industry to develop new and improved processes and products. This authoritative volume covers the essential features of advanced fermentation and cell technology, and highlights the interaction of food fermentation and cell culture biopharmaceutical actives. Detailed chapters, organized into five sections, cover microbial cell technology, animal and plant cell technology, safety issues of new biotechnologies, and applications of microbial fermentation to food products, chemicals, and pharmaceuticals. *Advanced Fermentation and Cell Technology* is an ideal resource for students of food science, biotechnology, microbiology, agricultural sciences, biochemical engineering, and biochemistry, and is a valuable reference for food scientists, researchers, and technologists throughout the food industry, particularly the dairy, bakery, and fermented beverage sectors.

AUGUST 2021 960PP
978-1-119-04276-1 CL \$345.00 (Japan)
Food Biotechnology

公衆衛生

Do No Harm

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

MATTHEW WEBSTER

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

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

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

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

AUGUST 2021 336PP
978-1-119-79402-8 PB \$30.00 (Japan)
Health & Health Care Special Topics



歴史

Nature's Evil

A Cultural History of Natural Resources

ALEXANDER ETKIND & TRANSLATED BY SARA JOLLY

King's College, Cambridge

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

SERIES: NEW RUSSIAN THOUGHT

AUGUST 2021 300PP
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**World Politics since 1989**

JONATHAN HOLSLAG

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

AUGUST 2021 304PP
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World History



エンジニアリング

Advanced Engineering Economics

2nd Edition

CHAN S. PARK & GUNTER P. SHARP

Auburn University; Georgia
Institute of TechnologyAUGUST 2021 816PP
978-1-119-69196-9 PB \$166.95 (Japan)
ENGINEERING TECHNOLOGY MANAGEMENT

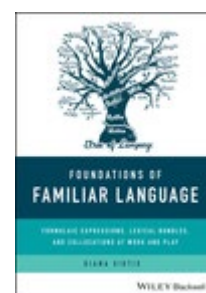
言語学

Foundations of Familiar LanguageFormulaic Expressions, Lexical Bundles, and
Collocations at Work and Play

DIANA SIDTIS

New York University

A broad overview of the many kinds of unitary expressions found in everyday verbal and written communication, including their signature meaning, form, and usage, authored by a renowned scholar in the field



Foundations of Familiar Language is renowned scholar Diana Sidtis's new contribution to the study of formulaic language through a wide-ranging overview of a large group of language behaviors that share characteristics of cohesion and familiarity, featuring a rational classification of fixed, familiar expressions into formulaic expressions, lexical bundles, and collocations. This unique volume offers a new approach to linguistic classification and construction grammar through a dual-process model of language competence rooted in linguistic, psycholinguistic, and neurolinguistic observations, combining insights drawn from foundational studies of psychology and neurology with contemporary theories of the differences between formulaic and propositional language. This approach offers a distinct and innovative contribution to scholarship in the field. The text contains resources for further study and research such as examples, research protocols, and lists of fixed, familiar expressions from the past and present.

Sufficiently in-depth for specialists, while accessible to students and non-specialists, *Foundations of Familiar Language* is an essential resource for a wide range of readers, including linguists, child language specialists, psychologists, social scientists, neuroscientists, philosophers, educators, teachers of English as a second language, and those working in artificial intelligence and speech synthesis.

AUGUST 2021 472PP
978-1-119-16332-9 PB \$49.95 (Japan)
Linguistics Special Topics

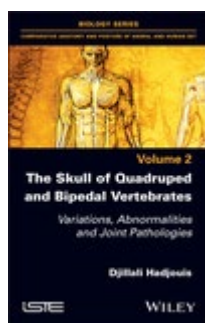
ライフサイエンス

The Skull of Quadruped and Bipedal Vertebrates

Variations, Abnormalities and Joint Pathologies

DJILLALI HADJOUIS

This book forms part of the set, Comparative Anatomy and Posture of Animal and Human, and focuses on the skulls of Quaternary mammals and of Man since the acquisition of upright posture. Although the vast majority of the quadruped fossil species have a balanced postural adaptation, with no asymmetries or maxillo_mandibular dysmorphoses, the Hominine species that has acquired this readjustment of the body as well as a bipedal adaptation to the ground, will experience a series of postural imbalances starting with malocclusion in the genus Homo. In order to arrive at this conclusion, the cranio-facial architectural biodynamics of several species of fossil and current mammal have been analyzed over three decades. In addition, hundreds of skulls of anatomically modern Hominids have been examined, highlighting their occlusal offsets, variations, anomalies and pathologies.



AUGUST 2021 256PP
978-1-78630-607-4 CL \$165.00 (Japan)
Evolutionary Biology

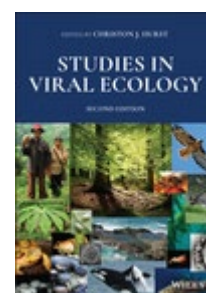
Studies in Viral Ecology

2nd Edition

EDITOR CHRISTON J. HURST

U.S. Environmental Protection Agency, Cincinnati, Ohio

This second edition of Studies in Viral Ecology is designed to serve as a means of updating the knowledge of virologists regarding the broader aspects of viral ecology. As with the first edition, this book explains the ecology of viruses by examining their interactive dynamics with their hosting species (covering both animals and plants), including the types of transmission cycles that viruses have evolved encompassing principal and alternate hosts, vehicles and vectoring species. Examining virology from an organismal biology approach and focusing on the concept that viral infections represent areas of overlap in the ecologies of the involved species, Viral Ecology is essential for students and professionals who either may be non-virologists or virologists whose previous familiarity has been very specialized. This second edition of Studies in Viral Ecology is designed to serve as a means of updating the knowledge of virologists regarding the broader aspects of viral ecology. As with the first edition, this book explains the ecology of viruses by examining their interactive dynamics with their hosting species (covering both animals and plants), including the types of transmission cycles that viruses have evolved encompassing principal and alternate hosts, vehicles and vectoring species. Examining virology from an organismal biology approach and focusing on the concept that viral infections represent areas of overlap in the ecologies of the involved species, Viral Ecology is essential for students and professionals who either may be non-virologists or virologists whose previous familiarity has been very specialized.



AUGUST 2021 720PP
978-1-119-60836-3 CL \$185.00 (Japan)
MICROBIOLOGY & VIROLOGY

Population Genetics and Microevolutionary Theory

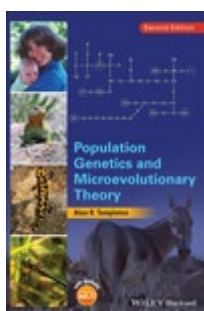
2nd Edition

ALAN R. TEMPLETON

Washington University in St. Louis, USA

Population Genetics and Microevolutionary Theory, Second Edition provides a solid basis in population genetics, with an emphasis on comprehending the biological implications of population genetic theory. Building on the success of the first edition, *Population Genetics* is now revised and expanded with coverage of the exciting new developments in the field, including new discoveries in epigenetics and genome-wide studies. Emphasizing that population structure forms the underlying template upon which quantitative genetics and natural selection operate, the book prepares students to successfully apply population genetics analytical tools by providing a solid foundation in microevolutionary theory.

Population Genetics and Microevolutionary Theory, Second Edition is a must-read for future population and evolutionary geneticists, and for those who will be applying population genetic concepts and techniques in other areas such as genetic epidemiology and conservation biology.



AUGUST 2021 768PP
978-1-118-50423-9 CL \$129.95 (Japan)
GENETICS

Molecular Mechanisms of Photosynthesis

3rd Edition

ROBERT E. BLANKENSHIP

Arizona State University

In the comprehensively revised Third Edition of *Molecular Mechanisms of Photosynthesis*, distinguished researcher and professor Robert E. Blankenship delivers a brand-new update to the most authoritative textbook on the subject of photosynthesis. In addition to thorough coverage of foundational topics in photosynthesis, the book discusses cutting-edge advances in research in this area, including new structures and new information about the mechanism of oxygen production.

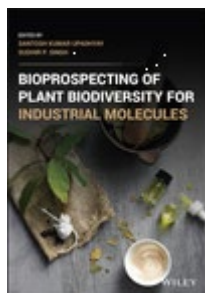
Perfect for advanced undergraduate and beginning graduate students in biochemistry and biophysics, *Molecular Mechanisms of Photosynthesis* will also earn a place in the libraries of students studying plant biology and seeking a one-stop resource in the field of molecular photosynthesis.

AUGUST 2021 324PP
978-1-119-80001-9 PB \$85.00 (Japan)
PLANT SCIENCE

Bioprospecting of Plant Biodiversity for Industrial Molecules

EDITOR EMERITUS SANTOSH UPADHYAY & EDITOR SUDHIR P. SINGH

This book presents the global perspectives of bioprospecting of plant biodiversity. The main focus is on natural compounds of plants origins, and the biological systems of health attributes. The research performed on enzymes, amino acids, vitamins, minerals, short-chain carbohydrate, phytochemicals, and other bioactive molecules are presented, with their health impact assessed and ecological sustainability.



AUGUST 2021 384PP
978-1-119-71721-8 CL \$199.99 (Japan)
Plant Biotechnology

Nano-Technological Intervention in Agricultural Productivity

JAVID A. PARRAY, MOHAMMAD YASEEN MIR & NOWSHEEN SHAMEEM

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

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

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

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

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

文学

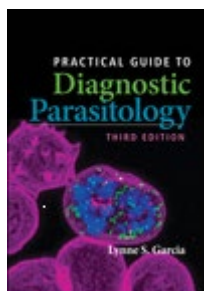
Practical Guide to Diagnostic Parasitology

3rd Edition

EDITOR LYNNE SHORE GARCIA

UCLA Medical Center, Los Angeles, California

In the 21st century the field of diagnostic medical parasitology continues to see dramatic changes, including newly recognized pathogens and the changing endemicity and classification of familiar organisms; neglected tropical diseases and the impact of global climate change; and new methodologies and risk management issues. This classic clinical laboratory parasitology reference, now in its third edition, has been extensively revised and updated in a new full-color format. Still organized to provide maximum help to the user, particularly from the bench perspective, every section has been expanded with new images and discussion.



Specimen collection, preservation, and testing options are thoroughly discussed, from the routine ova and parasite examination to blood films, fecal immunoassays, and the newer molecular test panels. Specific test procedures, laboratory methods and reagents, and algorithms are provided. The ever-helpful "FAQ" section of commonly asked questions now offers expanded information on stool specimen fixatives and testing, thorough coverage of new techniques, and advice on reporting and commenting on results.

The heart of the *Guide*, covering identification of individual pathogens, has been expanded with more discussion and comparison of organisms and dozens of new color images. An entirely new section has been added that uses extensive figures and new tables to illustrate common problems with differentiating organisms from one another and from possible microscopic artifacts. The final section has been reorganized to include identification keys and dozens of tables summarizing organism characteristics to assist the bench microbiologist with routine diagnostic testing methods.

SERIES: ASM BOOKS

AUGUST 2021 784PP
978-1-68367-039-1 PB \$99.95 (Japan)
Parasitology

A Concise Companion to the Study of Manuscripts, Printed Books, and the Production of Early Modern Texts

A Festschrift for Gordon Campbell

EDITOR EDWARD JONES

Oklahoma State University, USA

Bringing together a broad range of case studies written by a team of international scholars, this *Concise Companion* establishes how manuscripts and printed books met the needs of two different approaches to literacy in the early modern period.

- Features essays illustrating the particular ways a manuscript and a printed book reflect the different emphases of an elite, private and an egalitarian, public culture, both of which account for the literary achievements of the Renaissance
- Includes wide-ranging essays, from printing the Gospels in Arabic to a contemporary reconceptualization of Shakespeare's *Titus Andronicus*
- Increases accessibility through a rubric organized around archival and manuscript studies; the provenance of texts and the authority of editions; and studies of genre, religion and literary history
- Announces the recovery of archival documents, which in some instances are over four hundred years old
- Places translations of Milton's Latin, Greek, and Italian alongside the original texts to increase accessibility for a wide audience of students and scholars
- Provides an invaluable platform for highlighting on-going attention to the history of the book and its corollary subjects of reading and writing practices in the 1500s and 1600s



SERIES: CONCISE COMPANIONS TO LITERATURE AND CULTURE

AUGUST 2021 384PP
978-1-119-06731-3 PB \$41.50 (Japan)
Renaissance English Literature / 9781118635292 CL \$41.50 (Japan)

数学

An Introduction to Numerical Methods and Analysis

3rd Edition

JAMES F. EPPERSON, ANN ARBOR

University of Alabama in Huntsville

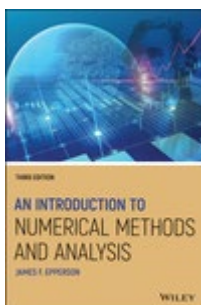
The new edition of the popular introductory textbook on numerical approximation methods and mathematical analysis, with a unique emphasis on real-world application

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.

AUGUST 2021 672PP
978-1-119-60469-3 CL \$133.00 (Japan)
Numerical Methods



メディカル・サイエンス

Pathology at a Glance

2nd Edition

CAROLINE FINLAYSON, BARRY NEWELL & ASMA Z. FARUQI

St George's Hospital Medical School; St. George's Hospital Medical School

SERIES: AT A GLANCE

AUGUST 2021 352PP
978-1-119-47245-2 PB \$45.00 (Japan)
BASIC MEDICAL SCIENCES

The Esophagus

6th Edition

EDITOR JOEL E. RICHTER, EDITOR DONALD O. CASTELL, EDITOR
DAVID A. KATZKA, EDITOR PHILLIP KATZ, EDITOR ANDRE SMOUT,
EDITOR STUART SPECHLER & EDITOR MICHAEL F. VAEZI

University of South Florida, USA ; Hahnemann University, USA

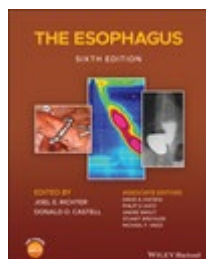
The Esophagus investigates the anatomy, physiology, and pathology of the esophagus. This sixth edition, revised and updated throughout, also explores the diagnosis and treatment of various esophageal conditions. It includes treatment guidelines approved by the two largest gastroenterology societies, the ACG and AGA, as befits a work co-edited by two former presidents of those organizations. Advancements in diagnostics are presented, as are developments in the surgical and drug therapies.

Presented in full colour, and boasting an unrivalled team of editors and contributing authors, *The Esophagus Sixth Edition* will find a home wherever the anatomy, physiology, and pathology of the esophagus are studied and taught.

This book is accompanied by a website containing all the figures from the book in PowerPoint format.

www.wiley.com/go/richter/esophagus6e

AUGUST 2021 912PP
978-1-119-59960-9 CL \$315.00 (Japan)
GASTROENTEROLOGY



Successful Training in Gastrointestinal Endoscopy

2nd Edition

JONATHAN COHEN

New York University School of Medicine

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

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



Assisted Reproduction Techniques

Challenges & Management Options, 2nd Edition

EDITOR KHALDOUN SHARIF & EDITOR ARRI COOMARASAMY

University of Birmingham and Birmingham Women's NHS Foundation Trust, Birmingham, UK

Assisted reproduction techniques have led to the birth of 8 million babies worldwide

Assisted reproduction techniques (ART), in particular in-vitro fertilization and intra-cytoplasmic sperm injection, are the most advanced forms of infertility treatment. They involve numerous counseling, medical, surgical and laboratory-based steps. At each step various problems and complications could be encountered that challenge even the most experienced ART practitioners. Moreover, patients with complex medical disorders may require ART, presenting further challenges.

Assisted Reproduction Techniques will stimulate resourceful thinking in the ART practitioner when faced with these challenges. It outlines various management options, the reasoning behind them, and the evidence on which they are based to enable the practitioner to choose the most suitable solution for the needs of each patient.

Each of the 116 concise chapters includes clinical cases, background, evidence-based practical management options, preventive measures, key-point summaries of the important details and answers to questions patients ask.

Assisted Reproduction Techniques first edition has established its place as a "must read" for ART trainees and practitioners alike, and in this second edition all chapters have been updated, with the addition of new ones addressing training issues, organizational and business skills, and social media use in ART.

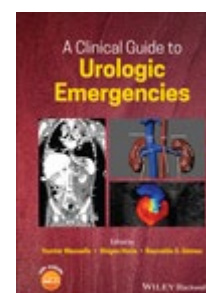
AUGUST 2021 768PP
978-1-119-62210-9 CL \$195.00 (Japan)
OBSTETRICS & GYNECOLOGY

A Clinical Guide to Urologic Emergencies

HUNTER WESSELLS, SHIGEO HORIE & REYNALDO GÓMEZ

University of Washington, Seattle, WA, USA; Hospital del Trabajador, Santiago, Chile; Juntendo University School of Medicine, Tokyo, Japan

An ageing population and a predicted shortfall in the number of urologists means that, increasingly, the management of complex urological problems will fall to hospital emergency departments and the surgeries of primary care physicians. With many doctors and medical students now having less exposure to urology, there is a real and urgent need for accessible and practical guidance in managing urologic emergencies.



A Clinical Guide to Urologic Emergencies offers practical guidance to the best practices in diagnosis, treatment and management of patients with urgent urological conditions. Designed to be an extremely useful tool to consult in the clinical setting, it will be a vital source of information and guidance for all clinicians, irrespective of their level of urologic knowledge.

Edited by an outstanding international editor team, this book is particularly aimed at physicians, advanced practice providers, and urology and emergency medicine trainees managing patients in diverse healthcare settings across the globe.

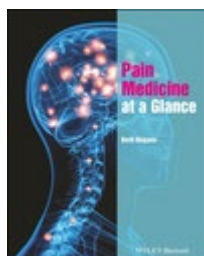
A Clinical Guide to Urologic Emergencies is accompanied by a website featuring video content at www.wiley.com/go/wessells/urologic

AUGUST 2021 304PP
978-1-119-02147-6 CL \$130.00 (Japan)
Urology

Pain Medicine at a Glance

BETH B. HOGANS

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



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

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

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

SERIES: AT A GLANCE

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

Fundamentals of Additive Manufacturing for the Practitioner

SHEKU KAMARA & KATHY S. FAGGIANI

Discover how to shift from traditional to additive manufacturing processes with this core resource from industry leaders

Fundamentals of Additive Manufacturing for the Practitioner delivers a vital examination of the methods and techniques needed to transition from traditional to additive manufacturing. The book explains how traditional manufacturing work roles change as various industries move into additive manufacturing and describes the flow of the typical production process in additive manufacturing. Detailed explorations of the processes, inputs, machine and build preparation, post-processing, and best practices are included, as well as case study examples that serve as real-world examples of the principles discussed within.

Every chapter includes a problems and opportunities section that prompts readers to apply the book's techniques to their own work. Diagrams and tables are distributed liberally throughout the work to present concepts visually, and key options and decisions are highlighted throughout to assist the reader in understanding how additive manufacturing changes traditional workflows.

Perfect for mechanical engineers, manufacturing professionals, technicians, and designers new to additive manufacturing, *Fundamentals of Additive Manufacturing for the Practitioner* will also earn a place in the libraries of technical, vocational, and continuing education audiences seeking to improve their skills with additive manufacturing workflows.

SERIES: ADDITIVE MANUFACTURING SKILLS IN PRACTICE.

AUGUST 2021 192PP
978-1-119-75038-3 CL \$75.00 (Japan)
General & Introductory Mechanical Engineering



Geometric Modeling of Fractal Forms for CAD

CHRISTIAN GENTIL, GILES GOUATY & DMITRY SOKOLOV

Designing and controlling complex shapes like porous volumes and rough surfaces is a challenge. Fractal geometry is an interesting approach which considerably simplify the problem. Even though underlying concepts reduce the set possible shapes, they generate a surprising variety of shapes. In this book we present a formalism to design such complex objects for geometric aided geometry design applications. The goal of this formalism is to provide to the end user the possibility to manipulate fractal objects as a standard euclidean object with standard tools of CAD system. This formalism encompass curves, surfaces, volumes, as well as NURBS and subdivision surfaces. All theoretical and practical aspects are developed, from the design up to 3D printing.

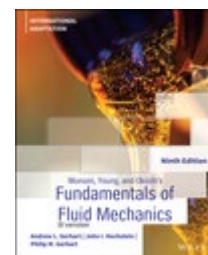
JULY 2021 256PP
978-1-78630-040-9 CL \$165.00 (Japan)
Mechanical Engineering - Design

Munson, Young and Okiishi's Fundamentals of Fluid Mechanics

9th Edition, International Adaptation

PHILIP M. GERHART, ANDREW L. GERHART & JOHN I. HOCHSTEIN

Munson, Young, and Okiishi's Fundamentals of Fluid Mechanics is intended for undergraduate engineering students for use in a first course on fluid mechanics. Building on the well-established principles of fluid mechanics, the book offers improved and evolved academic treatment of the subject. Each important concept or notion is considered in terms of simple and easy-to-understand circumstances before more complicated features are introduced. The presentation of material allows for the gradual development of student confidence in fluid mechanics problem solving. This International Adaptation of the book comes with some new topics and updates on concepts that clarify, enhance, and expand certain ideas and concepts. The new examples and problems build upon the understanding of engineering applications of fluid mechanics and the edition has been completely updated to use SI units.



AUGUST 2021 UnknownPP
978-1-119-70326-6 PB \$65.00 (Japan)
Fluid Mechanics

材料科学

Finite Element Analysis

Method, Verification and Validation, 2nd Edition

BARNA SZABO & IVO BABUŠKA

Washington University, St. Louis, Missouri; University of Maryland

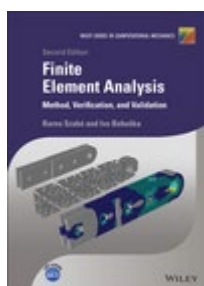
An updated and comprehensive review of the theoretical foundation of the finite element method

The revised and updated second edition of *Finite Element Analysis* offers a comprehensive review of the theoretical foundations of the finite element method and highlights the fundamentals of solution verification, validation, and uncertainty quantification. Written by noted experts on the topic, the book covers the theoretical fundamentals as well as the algorithmic structure of the finite element method. The text contains numerous examples and helpful exercises that clearly illustrate the techniques and procedures needed for accurate estimation of the quantities of interest. In addition, the authors describe the technical requirements for the formulation and application of design rules.

Written for students in mechanical and civil engineering, analysts seeking professional certification and applied mathematicians, *Finite Element Analysis, Second Edition* includes the tools, concepts, techniques, and procedures that help with an understanding of finite element analysis.

SERIES: WILEY SERIES IN COMPUTATIONAL MECHANICS

AUGUST 2021 384PP
978-1-119-42642-4 CL \$130.00 (Japan)
COMPUTATIONAL / NUMERICAL METHODS

**Understanding Solids**

The Science of Materials, 3rd Edition

RICHARD J. D. TILLEY

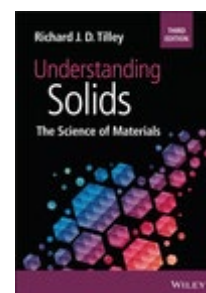
Cardiff University

Explore a comprehensive and illuminating introductory text to the science of solid materials from a leading voice in the field

The newly revised Third Edition of *Understanding Solids: The Science of Materials* delivers a complete yet concise treatment of the basic properties and chemical and physical behaviors of solid materials. Following a completely revised opening set of chapters in which the basic properties of solids—including atomic structure, chemical bonding, crystallography, and phase relationships—are discussed, the book goes on to describe new developments in the areas of batteries and fuel cells, perovskite solar cells, lighting and displays, nanoparticles, whiskers, and sheets.

The distinguished author has also added sections about organic framework structures, superionic conductors, mechanochemistry, bi-layer graphene, hologram formation and recording, and the optics of nanoparticle arrays and thermochromic materials. Each chapter includes a Further Reading section to help students accumulate additional knowledge on the topic within and new problems have been added throughout the book.

Perfect for undergraduate students in sciences, engineering, and technology, *Understanding Solids: The Science of Materials* will also earn a place in the libraries of anyone seeking a thoroughly up to date, one-stop reference to the science of solid materials.



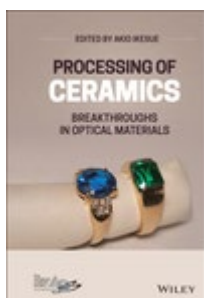
AUGUST 2021 550PP
978-1-119-71650-1 PB \$85.00 (Japan)
GENERAL & INTRODUCTORY MATERIALS SCIENCE

Processing of Ceramics

Breakthroughs in Optical Materials

AKIO IKESUE

Focusing on optical applications mainly in lasers, scintillators, Faraday rotators, lighting, and passive materials, this book progresses from an introduction to the topic through principle of function creation, material preparation, properties (characteristics), and future trends in optical ceramics. The book covers practical applications of transparent ceramics such as lighting, passive applications (windows, domes, and armor), and future technologies such as bonding technologies.



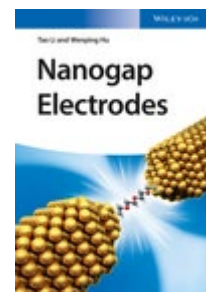
AUGUST 2021 432PP
978-1-119-53870-7 CL \$205.00 (Japan)
Ceramics

Nanogap Electrodes

EDITOR TAO LI

University of Copenhagen, Denmark

Unique in its scope, this book comprehensively combines various synthesis strategies with applications for nanogap electrodes. Clearly divided into four parts, the monograph begins with an introduction to molecular electronics and electron transport in molecular junctions, before moving on to a whole section devoted to synthesis and characterization. The third part looks at applications with single molecules or self-assembled monolayers, and the whole is rounded off with a section on interesting phenomena observed using molecular-based devices.



AUGUST 2021 400PP
978-3-527-33271-7 CL \$150.00 (Japan)
Electronic Materials

Supramolecular Gels

Materials and Emerging Applications

TIFENG JIAO

Discover a current and authoritative overview of the cutting-edge in supramolecular gels from a leading voice in the field

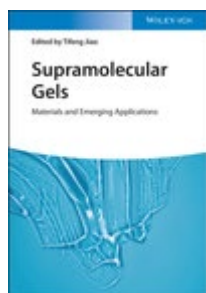
A promising new class of materials shows potential and is receiving increasing attention as an intelligent material for multifunctional systems. In a work that is sure to be of great interest to a wide variety of researchers, chemists, and engineers, *Supramolecular Gels: Materials and Emerging Applications* delivers an application-oriented and focused book exploring the most recent applications of supramolecular gels.

This interdisciplinary book presents the underlying fundamentals of supramolecular gels before discussing their assembly mechanisms and structures. It also introduces different material systems, including composite supramolecular gels, organogels, hydrogels, self-healing, and graphene-based supramolecular gels.

The book discusses current and emerging applications of these materials in devices like sensors and actuators, biomedical tools, and environmental applications. The distinguished author also offers valuable insights with respect to the design and character of brand-new versatile soft materials.

Perfect for materials scientists, organic chemists, biochemists, catalytic chemists, and environmental chemists, *Supramolecular Gels: Materials and Emerging Applications* will also earn a place in the libraries of sensor developers and other professionals seeking a one-stop reference for this rapidly developing category of intelligent materials.

AUGUST 2021 350PP
978-3-527-34511-3 CL \$163.75 (Japan)
Soft Matter



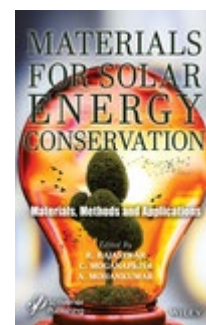
Materials for Solar Energy Conservation

Materials, Methods and Applications

EDITOR R. RAJASEKAR, EDITOR C. MOGANAPRIYA & EDITOR A. MOHANKUMAR

Kongu Engineering College (An Autonomous Institution under Anna University), Tamilnadu, India; Kongu Engineering College (An Autonomous Institution under Anna University), Tamilnadu, India; Kongu Engineering College (An Autonomous Institution under Anna University), Tamilnadu, India

The demand for energy is increasing day by day and development of sustainable power generation is a critical issue. To overcome this constraint, renewable energy sources such as solar energy are developed by researchers. Effectual collection and storage of renewable energies like solar radiation requires the development of advanced functional materials. This book mainly focuses on the progress of recently developed functional materials for solar energy conservation. It also discusses the wide variety of organic and inorganic materials. Use of modern computer simulation techniques, conversion and storage processes are effectively covered. The research topics such as nano-structured solar cells, battery materials etc. are included in this book.



AUGUST 2021 UnknownPP
978-1-119-75060-4 CL \$225.00 (Japan)
Materials for Energy Systems

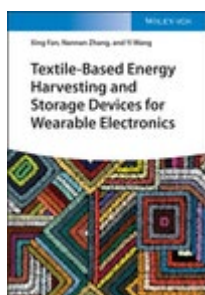
Textile-Based Energy Harvesting and Storage Devices for Wearable Electronics

XING FAN, NANNAN ZHANG & YI WANG

National Institute of Standards & Technology, USA

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

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



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

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

Graphdiyne

Fundamentals, and Applications in Renewable Energy and Electronics

YULIANG LI

Delivers a practical and insightful compilation of theoretical and experimental developments in the study of graphdiyne.

AUGUST 2021 400PP
978-3-527-34787-2 CL \$164.34 (Japan)
Nanomaterials

ナースング

Fundamentals of Pharmacology for Children's Nurses

IAN PEATE, GIBRALTAR & PETER DRYDEN

School of Nursing and Midwifery

Registered Nurses must have thorough knowledge of pharmacology, medicines administration, and the effects of medicines. *Fundamentals of Pharmacology for Children's Nurses* is written for nurses and allied health professionals involved in the care of children and young people (CYP) to focus exclusively on pharmacology. Filling a gap in current literature on the subject, this much-needed resource develops the competence and confidence required to prescribe, dispense, and administer medicines to children and young people.

Emphasising the importance of patient-centered care to CYP, the text describes the role of the healthcare provider working with CYP and their families; explains how to use pharmaceutical and prescribing reference guides; discusses legal and ethical issues; examines pharmacodynamics and pharmacokinetics, and more.

Fundamentals of Pharmacology for Children's Nurses is essential reading for undergraduate children's nursing students, trainee nursing associates, those undertaking healthcare programmes of study, as well as those seeking to better understand pharmacology.

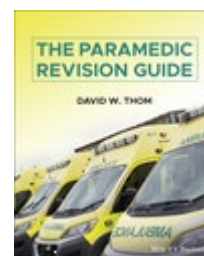
SERIES: FUNDAMENTALS

AUGUST 2021 300PP
978-1-119-63321-1 PB \$39.95 (Japan)
General Clinical Nursing

The Paramedic Revision Guide

DAVID W. THOM

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



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

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

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

AUGUST 2021 344PP
978-1-119-75806-8 PB \$45.00 (Japan)
Acute, Critical & Emergency Care

物理学

Microcavity Semiconductor Lasers

Principles, Design and Applications

YONG-ZHEN HUANG & YUE-DE YANG

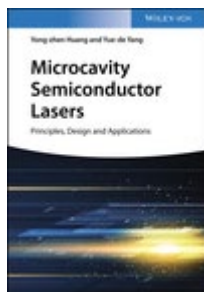
Explore this thorough overview of integrable microcavity semiconductor lasers and their applications from two leading voices in the field

Attracting a great deal of attention over the last decades for their promising applications in photonic integration and optical interconnects, microcavity semiconductor lasers continue to develop via advances in fundamental physics, theoretical analysis, and numerical simulations. In a new work that will be of interest to researchers and practitioners alike, *Microcavity Semiconductor Lasers: Principles, Design and Applications* delivers an application-oriented and highly relevant exploration of the theory, fabrication, and applications of these practical devices.

The book focuses on unidirectional emission microcavity lasers for photonic integrated circuits, including polygonal microresonators, microdisk, and microring lasers. After an introductory overview of optical microcavities for microlasers and detailed information of the lasers themselves, including mode structure control and characteristics, and lasing properties, the distinguished authors discuss fabrication and applications of different microcavity lasers. Prospects for future research and potential new applications round out the book.

Perfect for laser specialists, semiconductor physicists, and solid-state physicists, *Microcavity Semiconductor Lasers: Principles, Design and Applications* will also earn a place in the libraries of materials scientists and professionals working in the semiconductor and optical industries seeking a one-stop reference for integrable microcavity semiconductor lasers.

AUGUST 2021 336PP
978-3-527-34546-5 CL \$170.00 (Japan)
Laser



哲学

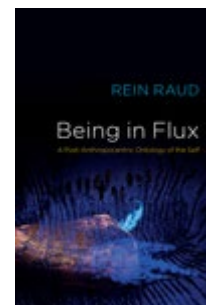
Being in Flux

A Post-Anthropocentric Ontology of the Self

REIN RAUD

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

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



Instituting Thought

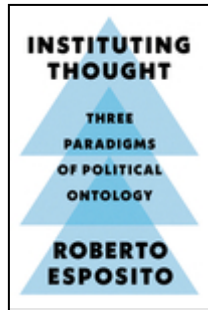
Three Paradigms of Political Ontology

ROBERTO ESPOSITO & TRANSLATED BY MARK EPSTEIN

University of Naples

READERSHIP: Graduate students and academics in philosophy, literary studies, cultural studies.

AUGUST 2021 264PP
978-1-5095-4642-8 CL \$69.95 (Japan)
978-1-5095-4643-5 PB \$24.95 (Japan)
General Philosophy



Conservatism

EDMUND NEILL

READERSHIP: Students and scholars in political theory and political philosophy, especially those studying ideologies in general, and conservatism in particular.

SERIES: KEY CONCEPTS IN POLITICAL THEORY

AUGUST 2021 180PP
978-1-5095-2705-2 CL \$59.95 (Japan)
978-1-5095-2706-9 PB \$19.95 (Japan)
Social Philosophy



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.



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

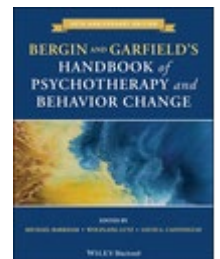
Bergin and Garfield's Handbook of Psychotherapy and Behavior Change

7th Edition

EDITOR MICHAEL BARKHAM, EDITOR WOLFGANG LUTZ & EDITOR LOUIS G. CASTONGUAY

University of Sheffield, UK

Celebrating the 50th anniversary of a best-selling and renowned reference in psychotherapy research and practice.



Now celebrating its 50th anniversary and in its seventh edition, *Bergin and Garfield's Handbook of Psychotherapy and Behavior Change*, maintains its position as the essential reference volume for psychotherapy research. This bestselling reference remains the most important overview of research findings in psychotherapy. It is a rigorous and evidence-based text for academics, researchers, practitioners, and students.

In recognition of the 50th anniversary, this edition contains a Foreword by Allen Bergin while the Handbook covers the following main themes: historical and methodological issues, measuring and evidencing change in efficacy and practice-based research, therapeutic ingredients, therapeutic approaches and formats, increasing precision and scale of delivery, and future directions in the field of psychotherapy research. Chapters have either been completely rewritten and updated or comprise new topics by contributors including:

- Characteristics of effective therapists
- Mindfulness and acceptance-based therapies
- Personalized treatment approaches
- The internet as a medium for treatment delivery
- Models of therapy and how to scale up treatment delivery to address unmet needs

The newest edition of this renowned Handbook offers state-of-the-art updates to the key areas in psychotherapy research and practice today. Over 60 authors, experts in their fields, from over 10 countries have contributed to this anniversary edition, providing in-depth, measured and insightful summaries of the current field.

AUGUST 2021 UnknownPP
978-1-119-53658-1 CL \$125.00 (Japan)
PSYCHOTHERAPY & COUNSELING

Ethics in Psychotherapy and Counseling

A Practical Guide, 6th Edition

KENNETH S. POPE, MELBA J. T. VASQUEZ, NAYELI Y. CHAVEZ-DUEÑALDE & HECTOR Y. ADAMES

Former chair of both the APA's and American Board of Professional Psychology (ABPP) Ethics Committees. ; Has served on the APA Ethics Committee, the APA Ethics Committee Task Force, and the APA Board of Social and Ethical Responsibility.

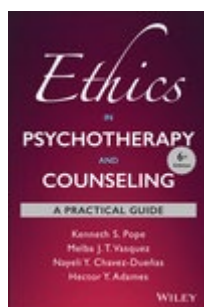
Take your ethical reasoning and practice to the next level with timely discussions of new and reoccurring issues in psychology and counseling.

In the newly revised Sixth Edition of *Ethics in Psychotherapy and Counseling: A Practical Guide*, a distinguished team of psychologists deliver a compilation of practical and creative approaches to the responsibilities, challenges, and opportunities encountered by therapists and counselors in their work. The book covers the many changes and difficulties created by new technologies like electronic health records, videoconferencing, texting, and practicing across state and provincial boundaries.

Using a new, easy-to-navigate structure and including brand new chapters on cultural ethics, social justice and human rights ethics, and the application of strategies for self-care, the authors discuss complex issues in a straightforward and accessible way. Conversations about moral distress and moral courage and actionable steps to strengthen ethics in organizational settings round out the useful material contained within.

Perfect for individual practitioners and teachers of graduate courses, seminars, and continuing education classes, *Ethics in Psychotherapy and Counseling: A Practical Guide* will also earn a place in the libraries of forensic psychologists and other expert witnesses preparing to testify on the standard of care in malpractice cases.

AUGUST 2021 464PP
978-1-119-80429-1 PB \$69.95 (Japan)
PSYCHOTHERAPY & COUNSELING



Polysaccharides

Properties and Applications

EDITOR INAMUDDIN, EDITOR MOHD IMRAN AHAMED, EDITOR RAJENDER BODDULA & EDITOR TARIQ A. ALTALHI

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

This book provides the whole spectrum of polysaccharides from basic concepts to commercial market applications. Chapters cover various types of sources, classification, properties, characterization, processing, rheology and fabrication of polysaccharide-based materials and their composites and gels. The applications of polysaccharides include in cosmetics, food science, drug delivery, biomedicine, biofuel production, marine, packaging, chromatography and environmental remediation. It also reviews the fabrication of inorganic and carbon nanomaterials from polysaccharides. The book incorporates industrial applications and will fill the gap between the exploration works in the laboratory and viable applications in related ventures.

AUGUST 2021 784PP
978-1-119-71138-4 CL \$275.00 (Japan)
Biopolymers

リレーションシップ

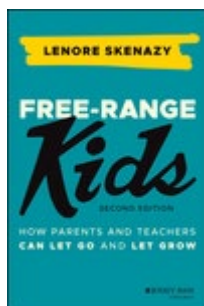
Free-Range Kids

How Parents and Teachers Can Let Go and Let Grow, 2nd Edition

LENORE SKENAZY

Learn to raise independent, can-do kids with a new edition of the book that started a movement

In the newly revised and expanded Second Edition of *Free-Range Kids*, New York columnist-turned-movement leader Lenore Skenazy delivers a compelling and entertaining look at how we got so worried about everything our kids do, see, eat, read, wear, watch and lick -- and how to bid a whole lot of that anxiety goodbye. With real-world examples, advice, and a gimlet-eyed look at the way our culture forces fear down our throats, Skenazy describes how parents and educators can step back so kids step up. Positive change is faster, easier and a lot more fun than you'd believe. This is the book that has helped millions of American parents feel brave and optimistic again -- and the same goes for their kids.



Using research, humor, and feisty common sense, the book shows:

- How parents can reject the media message, "Your child is in horrible danger!"
- How schools can give students more independence -- and what happens when they do. (Hint: Teachers love it.)
- How everyone can relax and successfully navigate a judge-y world filled with way too many warnings, scolds and brand new fears

Perfect for parents and guardians of children of all ages, *Free-Range Kids* will also earn a place in the libraries of K-12 educators who want their students to blossom with newfound confidence and cheer.

AUGUST 2021 320PP
978-1-119-78214-8 PB \$18.95 (Japan)
PARENTING

社会学

After Lockdown

A Metamorphosis

BRUNO LATOUR & TRANSLATED BY JULIE ROSE

Ecoles des mines, Paris, France

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

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

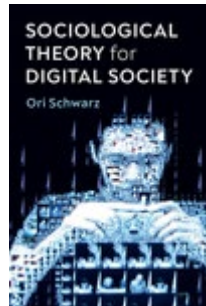
Sociological Theory for Digital Society

The Codes that Bind Us Together

ORI SCHWARZ

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

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



Item Response Theory

R. DARRELL BOCK & ROBERT D. GIBBONS

University of Illinois at Chicago

To date, much of the application of IRT has been in the field of educational measurement, where for example, IRT has been used extensively by the Educational Testing Service for the development of scholastic aptitude tests. IRT has played a major role in all major college and graduate school admission tests (SAT, ACT, GRE, GMAT, MCAT, ...). Unlike traditional tests based on classical test theory that summarizes the test result by a simple counting operation of number of correct responses, IRT provides model-based measurements in which the difficulty of the items, discrimination of high and low levels of the underlying latent variable(s) and the corresponding ability of the respondents can be estimated. In IRT scoring of tests, a certain number of items can be arbitrarily added, deleted, or replaced without losing comparability of scores on the scale. Only the precision of measurement at some points on the scale is affected. This property of scaled measurement, as opposed to counts of events, is the most salient advantage of IRT over classical methods of educational and psychological measurement. The evolution of IRT is now going beyond educational measurement. Recent advances in multidimensional extensions of IRT and computerized adaptive testing are leading to major advances in patient reported outcome measures of physical and emotional well being. In mental health research, IRT is now leading to a major paradigm shift in the screening and measurement of mental health disorders, substance abuse and suicidality, one of the leading causes of death in the world. Multidimensional IRT extends the tools used to evaluate essentially unidimensional constructs such as mathematical ability to the measurement of complex traits such as depression, anxiety and psychosis. In the next five years we expect that the use of multidimensional IRT for the measurement of complex traits will extend to other areas of health sciences and to problems in marketing research and practice where rapid adaptive tests administered through the internet will be able to precisely measure consumer affinity for different products, events, and market sectors. The methods described in this book will provide the foundation for these future developments.

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

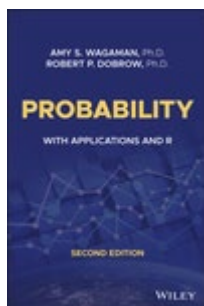
Probability

With Applications and R, 2nd Edition

AMY S. WAGAMAN & ROBERT P. DOBROW

Carleton College

This book is ideal for courses on Probability typically taught in Mathematics and/or Statistics departments but could also be used in Engineering or Data Science departments. This book could also serve as a supplemental or review text for courses on Stochastic Processes or Markov Chains or Brownian Motion, since those require a strong foundation in probability. The text is also preparatory for the Probability Actuarial Exam -- students who successfully complete a course with this text and do well are well-positioned to pass the P exam. Some major features of the new edition include an addition of supplemental materials for coding and simulation, improved exposition and examples for some topics, and addressing issues with errata. These features increase the value of the text especially in an era where developing computing skills has become a staple of statistical practice, and desirable for many other fields as well.



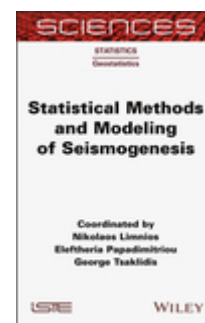
AUGUST 2021 544PP
978-1-119-69238-6 CL \$145.50 (Japan)
Probability & Mathematical Statistics

Statistical Methods and Modeling of Seismogenesis

NIKOLAOS LIMNIOS, ELEFThERIA PAPADIMITRIOU & GEORGE TSAKLIDIS

University of Technology of Compiègne, France

The study of earthquakes is a multidisciplinary field, an amalgam of geodynamics, mathematics, engineering and more. The overriding commonality between them all is the presence of natural randomness. Stochastic studies (probability, stochastic processes and statistics) can be of different types, for example, the black box approach (one state), the white box approach (multi-state), the simulation of different aspects, and so on. This book has the advantage of bringing together a group of international authors, known for their earthquake-specific approaches, to cover a wide array of these myriad aspects. A variety of topics are presented, including statistical nonparametric and parametric methods, a multi-state system approach, earthquake simulators, post-seismic activity models, time series Markov models with regression, scaling properties and multifractal approaches, self correcting models, the linked stress release model, Markovian arrival models, Poisson-based detection techniques, change point detection techniques on seismicity models, and, finally, semi-Markov models for earthquake forecasting.



AUGUST 2021 330PP
978-1-78945-037-8 CL \$165.00 (Japan)
Environmental Statistics & Environmetrics

Statistics at Square One

12th Edition

MICHAEL J. CAMPBELL, UNITED KINGDOM

University of Southampton

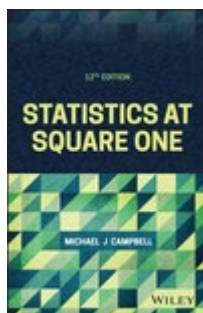
The new edition of the popular introduction to the world of statistics for health care professionals and medical students

First published nearly three decades ago, *Statistics at Square One* remains one of the most popular introductions to medical statistics. Now in its twelfth edition, this international bestseller continues to be a must-have resource for anyone in need of a thorough introduction to statistics in the health sciences. Clear and accessible chapters help students with no previous background in the subject understand fundamental topics including summary statistics for quantitative and binary data, diagnostic and screening tests, populations and samples, survival analysis, correlation and regression, study design, computer modeling, and more.

This edition reflects contemporary understanding of medical statistics and emphasizes the importance of statistics in public health, including extensively updated coverage of diagnostic tests and new COVID-related examples. All figures and examples now include code to reproduce them in the R statistical software. New chapters cover the basics for understanding numbers and introduce the use of models in medical statistical analysis. Based on the author's many years of experience teaching medical and health science students, the latest edition of this classic textbook:

- Highlights the connections between different medical statistics methods
- Emphasizes the proper use of p-values in testing
- Features practical examples from recent literature

Statistics at Square One is required reading for all medical and health care practitioners and students wanting to understand the use and value of statistical analysis in the health sciences.



AUGUST 2021 304PP
978-1-119-40130-8 PB \$32.50 (Japan)
MEDICAL STATISTICS & EPIDEMIOLOGY

Data Science in Theory and Practice

Techniques for Big Data Analytics and Complex Data Sets

MARIA C. MARIANI, OSEI KOFI TWENEBOAH & MARIA PIA BECCAR-VARELA

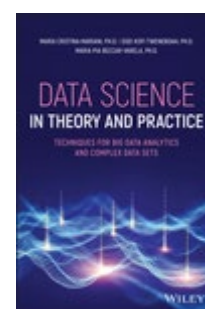
University of Texas at El Paso

Data Science in Theory and Practice delivers a comprehensive treatment of the mathematical and statistical models useful for analyzing data sets arising in various disciplines, like banking, finance, health care, bioinformatics, security, education, and social services. Written in five parts, the book examines some of the most commonly used and fundamental mathematical and

statistical concepts that form the basis of data science. The authors go on to analyze various data transformation techniques useful for extracting information from raw data, long memory behavior, and predictive modeling.

The book offers readers a multitude of topics all relevant to the analysis of complex data sets. Along with a robust exploration of the theory underpinning data science, it contains numerous applications to specific and practical problems. The book also provides examples of code algorithms in R and Python, and provides pseudo-algorithms to port the code to any other language.

Perfect for advanced undergraduate and graduate students in Data Science, Business Analytics, and Statistics programs, *Data Science in Theory and Practice* will also earn a place in the libraries of practicing data scientists, data and business analysts, and statisticians in the private sector, government, and academia.



AUGUST 2021 UnknownPP
978-1-119-67468-9 CL \$130.00 (Japan)
Data Analysis

Industrial Data Analytics for Diagnosis and Prognosis with R - A Random Effects Modelling Approach

SHIYU ZHOU & YONG CHEN

This book introduces the random effects modeling approach for industrial system diagnosis and prognosis. This book contains three main parts. The first part is theory preparation, which covers general statistical concepts and theory useful for describing and modelling fixed effects, random effects, and variation in a univariate or multivariate dataset, which provides necessary background for later chapters. The next part of the book focuses on Diagnosis methods, which covers the applications of random effects approach to diagnosis of variation sources in industrial processes. A detailed performance comparison of different methods for practical applications is presented, as well. Finally, the last part of the book is on Prognosis methods. This part of the book covers the applications of random effects approach to failure prognosis in industrial processes/systems. The advanced joint prognosis model, which integrates the survival regression model and the mixed effects regression model, is also presented. The authors provide R code for all the major examples, enabling quick implementation of the techniques covered in the book.

AUGUST 2021 416PP
978-1-119-66628-8 CL \$135.00 (Japan)
Data Analysis

Using Predictive Analytics to Improve Healthcare Outcomes

EDITOR JOHN W. NELSON, CO-EDITOR JAYNE FELGEN &
CO-EDITOR MARY ANN HOZAK

Discover a comprehensive overview, from established leaders in the field, of how to use predictive analytics and other analytic methods for healthcare quality improvement.

Using Predictive Analytics to Improve Healthcare Outcomes delivers a 16-step process to use predictive analytics to improve operations in the complex industry of healthcare. The book includes numerous case studies that make use of predictive analytics and other mathematical methodologies to save money and improve patient outcomes. The book is organized as a "how-to" manual, showing readers how to use existing theory and tools to achieve real, positive outcomes.

Distinguished professionals, researchers, and authors show readers how to set up their organization to use predictive analytics to identify the most promising operational changes before setting out to change a practice.

Using Predictive Analytics to Improve Healthcare Outcomes is perfect for executives, researchers, and quality improvement staff at healthcare organizations, as well as educators teaching mathematics, data science or quality improvement. Professionals will discover a valuable resource that walks them through the steps of managing and optimizing outcomes within clinical care operations.

AUGUST 2021 336PP
978-1-119-74775-8 CL \$130.00 (Japan)
Data Analysis



テストプレップ

GRE 2022 For Dummies

RON WOLDOFF, PHOENIX, UNITED STATES

National Test Prep

With this complete test prep package, you're going to do GREat!

GRE 2022 For Dummies is your one-stop review for conquering the number one graduate school admissions test. You've studied hard in college, and you already have what it takes to succeed on the GRE. This book will help you brush up your knowledge and become a test-taking machine. You'll learn what to expect from the verbal reasoning, quantitative reasoning, and analytical writing sections of the test, and get powerful exam tips and tricks so you can beat the time crunch. This trusted For Dummies test prep guide also includes online practice tests and detailed answer explanations.



- Work through sample questions and full-length practice tests--updated for the most current GRE tests!
- Learn techniques that will help you work through questions quickly
- Demystify what the graders want on your writing sample and discover how to earn your best scores on all sections
- Avoid common test-day pitfalls and get through the GRE stress-free!

Envision the doors to the grad school of your choice--open, just for you. With *GRE 2022 For Dummies*, you've got it under control!

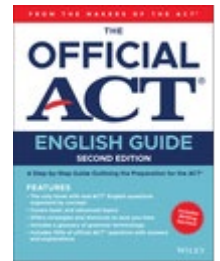
AUGUST 2021 496PP
978-1-119-81149-7 PB \$29.99 (Japan)
TEST PREP GENERAL

The Official ACT English Guide

2nd Edition

ACT

The ACT official subject guides are a step by step guide for outlining the preparation for the ACT section tests. These prep guides provide students a concept-based outline for the subjects they plan to focus on. Each one of the official guides, is an efficient prep tool comprised of the most current and relevant test information packed into one guide. In addition to the book, the entire pool of questions are available online for a customizable learning experience.



These guides will provide the focused support needed by subject. For the earnest test taker, start with official section guides to prepare for success!

Use the ACT practice questions to check your performance on the official items from ACT. All of the Official ACT Prep Guides, will provide you with the guidance you need to succeed by telling you what you need to study, sharing details on how to prepare, and offering a ton of realistic practice questions.

Use the ACT practice questions to check your performance on the official items from ACT. All of the Official ACT Prep Guides, will provide you with the guidance you need to succeed by telling you what you need to study, sharing details on how to prepare, and offering a ton of realistic practice questions.

The ACT official subject guides are the best resource to get detailed input and practice to help you in preparation for the ACT. By using this guide, students can feel comfortable and confident that they are preparing to do their best!

AUGUST 2021 544PP
978-1-119-78730-3 PB \$20.95 (Japan)
SAT, ACT PREP

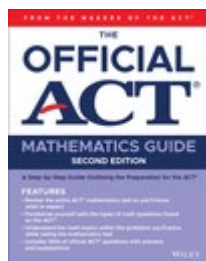
The Official ACT Mathematics Guide

2nd Edition

ACT

The ACT official subject guides are a step by step guide for outlining the preparation for the ACT section tests. These prep guides provide students a concept-based outline for the subjects they plan to focus on. Each one of the official guides, is an efficient prep tool comprised of the most current and relevant test information packed into one guide. In addition to the book, the entire pool of questions are available online for a customizable learning experience. The ACT official subject guides are the best resource to get detailed input and practice to help you in preparation for the ACT. By using this guide, students can feel comfortable and confident that they are preparing to do their best!

Features of the ACT® Official Math Guide Includes: Review of the entire mathematics test so you'll know what to expect; Familiarize yourself with the types of math questions for on the ACT; Understand the math topics within the problems you'll solve while taking the mathematics test; detailed explanations for every official ACT Math question in the book. The only books with real ACT Math questions organized by question type; includes detailed explanations for each questions; understand math problems within the problems you'll solve while taking the mathematics test.



AUGUST 2021 432PP
978-1-119-78733-4 PB \$20.95 (Japan)
SAT, ACT PREP

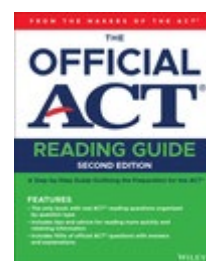
The Official ACT Reading Guide

2nd Edition

ACT

The ACT official subject guides are a step by step guide for outlining the preparation for the ACT section tests. These prep guides provide students a concept-based outline for the subjects they plan to focus on. Each one of the official guides, is an efficient prep tool comprised of the most current and relevant test information packed into one guide. In addition to the book, the entire pool of questions are available online for a customizable learning experience. The ACT official subject guides are the best resource to get detailed input and practice to help you in preparation for the ACT. By using this guide, students can feel comfortable and confident that they are preparing to do their best!

Features of the ACT® Official Reading Guide Includes: The only book with real ACT reading questions organized by question type; Includes tips and advice for reading more quickly and retaining information; detailed explanations for every official ACT.



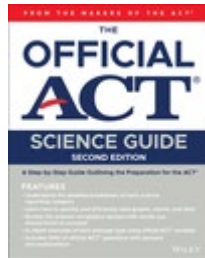
AUGUST 2021 400PP
978-1-119-78735-8 PB \$20.95 (Japan)
SAT, ACT PREP

The Official ACT Science Guide

2nd Edition

ACT

The ACT official subject guides are a step by step guide for outlining the preparation for the ACT section tests. These prep guides provide students a concept-based outline for the subjects they plan to focus on. Each one of the official guides, is an efficient prep tool comprised of the most current and relevant test information packed into one guide. In addition to the book, the entire pool of questions are available online for a customizable learning experience. The ACT official subject guides are the best resource to get detailed input and practice to help you in preparation for the ACT. By using this guide, students can feel comfortable and confident that they are preparing to do their best!



Features of the ACT® Official Science Guide Includes:

Understand the detailed breakdown of each science reporting category; Learn how to quickly and efficiently read graphs, charts, and data; Review the science vocabulary section with words you should know to success; In-depth examples of each passage type using official ACT samples; Detailed solutions and explanations for every official ACT science question in the book.

AUGUST 2021 384PP
978-1-119-78736-5 PB \$20.95 (Japan)
SAT, ACT PREP

(ISC)2 CISSP Certified Information Systems Security Professional Official Practice Tests

3rd Edition

MIKE CHAPPLE & DAVID SEIDL

University of Notre Dame

Full-length practice tests covering all CISSP domains for the ultimate exam prep



The *(ISC)2 CISSP Official Practice Tests* is a major resource for (ISC)2 Certified Information Systems Security Professional (CISSP) candidates, providing 1300 unique practice questions. The first part of the book provides 100 questions per domain. You also have access to four unique 125-question practice exams to help you master the material. As the only official practice tests endorsed by (ISC)2, this book gives you the advantage of full and complete preparation. These practice tests align with the 2021 version of the exam to ensure up-to-date preparation, and are designed to cover what you will see on exam day. Coverage includes: Security and Risk Management, Asset Security, Security Architecture and Engineering, Communication and Network Security, Identity and Access Management (IAM), Security Assessment and Testing, Security Operations, and Software Development Security.

The CISSP credential signifies a body of knowledge and a set of guaranteed skills that put you in demand in the marketplace. This book is your ticket to achieving this prestigious certification, by helping you test what you know against what you need to know.

- Test your knowledge of the 2021 exam domains
- Identify areas in need of further study
- Gauge your progress throughout your exam preparation
- Practice test taking with Sybex's online test environment containing the questions from the book

The CISSP exam is refreshed every few years to ensure that candidates are up-to-date on the latest security topics and trends. Currently-aligned preparation resources are critical, and periodic practice tests are one of the best ways to truly measure your level of understanding.

AUGUST 2021 672PP
978-1-119-78763-1 PB \$40.00 (Japan)
CERTIFICATION (MSCE, NOVELL, ETC.)

(ISC)2 CISSP Certified Information Systems Security Professional Official Study Guide

9th Edition

MIKE CHAPPLE, JAMES MICHAEL STEWART & DARRIL GIBSON

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

CISSP Study Guide - fully updated for the 2021 CISSP Body of Knowledge

(ISC)2 Certified Information Systems Security Professional (CISSP) Official Study Guide, 9th Edition has been completely updated based on the latest 2021 CISSP Exam Outline. This bestselling Sybex Study Guide covers 100% of the exam objectives. You'll prepare for the exam smarter and faster with Sybex thanks to expert content, knowledge from our real-world experience, advice on mastering this adaptive exam, access to the Sybex online interactive learning environment, and much more. Reinforce what you've learned with key topic exam essentials and chapter review questions.

The three co-authors of this book bring decades of experience as cybersecurity practitioners and educators, integrating real-world expertise with the practical knowledge you'll need to successfully pass the CISSP exam. Combined, they've taught cybersecurity concepts to millions of students through their books, video courses, and live training programs.

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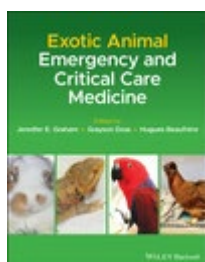
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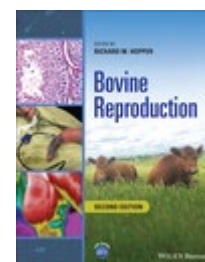
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