

JAPAN PREVIEW

July 2021



WILEY

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宇宙空間物理学と超高層学 全五巻

EDITOR-IN-CHIEF YONGLIANG ZHANG & EDITOR-IN-CHIEF LARRY J. PAXTON

→P92

A Companion to Chomsky

チョムスキー必携

EDITOR GEORGES REY, EDITOR NICHOLAS ALLOTT & EDITOR TERJE LOHNDAL

→P95

JAPAN PREVIEW

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Table of Contents

芸術	Art History & Theory	10
会計	Auditing	10
	Valuation	11
人類学	General & Introductory Anthropology	11
建築学	Building Design	12
ビジネス	Business Self-Help	13
	Business Technology	13
	Management	15
	Management / Leadership	16
	Creativity & Innovation Management	16
	Project Management	17
	Business & Society	17
	Small Business & Entrepreneurship	18
	Business & Management Special Topics	20
チルドレン	Children's Science	20
土木工学	Hydraulic / Water Engineering	21
	Earthquake	21
化学工学	Theory, Planning & Management	22
	Biochemical Engineering	22
化学	Forensics	23
	Environmental Chemistry	23
	Biotechnology (Chemistry)	24
	Catalysis	25
	Chemical and Environmental Health and Safety	26
	Inorganic Chemistry	26
	Supramolecular Chemistry	27
	Physical Chemistry	27

	Electrochemistry	28
	Sustainable Chemistry & Green Chemistry	28
	Computational Chemistry & Molecular Modeling.....	29
	Business & Management in Chemistry.....	29
文化研究	Ancient Culture	30
コミュニケーション	General Communication & Media Studies	30
	Media Studies.....	31
	TV & Radio.....	32
	Public Relations & Advertising.....	33
	Media Law & Ethics	33
	Journalism.....	34
	Communication Studies	35
コンピューティング	Internet General	35
	Popular Culture.....	36
	Microsoft Other Software	36
	Office Productivity - Non-Microsoft (General & Suites).....	37
	Computing Special Topics	37
コンピュータサイエンス	Networking / Security.....	38
	Business Data Processing	38
	Database & Data Warehousing Technologies	39
	Data Mining & Knowledge Discovery.....	39
	Artificial Intelligence	40
	Grid & Cloud Computing	41
	Computer Architecture	41
	Computer Security & Cryptography.....	42
歯学	Dental Traumatology.....	43
経済学	Political Economics.....	44
教育	General & Introductory Education.....	44
	Writing.....	45

	Literacy & Reading	46
電気電子工学	Circuit Theory & Design	47
	Antennas & Propagation	47
	Mobile & Wireless Communications	48
	Communication Technology - Networks	49
	Electromagnetic Theory	50
	Electromagnetic Compatibility	50
	Fuzzy Systems	51
	Systems Engineering & Management	52
	Remote Sensing	52
	RF / Microwave Theory & Techniques	53
	Electrical Engineering Special Topics	55
エネルギー	General Energy	55
	Power Technology & Power Engineering	56
	Electric Power Systems	56
環境科学	Environmental Economics & Politics	57
	Environmental Science	57
地球科学	Geology & Geophysics	58
	Paleontology, Paleobiology & Geobiology	58
	Oceanography & Paleoceanography	59
	Climatology & Paleoclimatology	60
ファイナンス	General Finance & Investments	60
	Money & Banking	61
	Personal Finance	62
	Investments & Securities	62
食品科学	Food Biotechnology	63
地理学	General & Introductory Geography	63
	Human Geography	64
	Environmental Geography	64

公衆衛生	International Public Health.....	65
	Mental Health	65
コンシューマーヘルス	Health, Diet & Nutrition	66
歴史	General & Introductory History.....	66
	US History	67
	20th Century America	68
	American Social & Cultural History	68
	History of Science & Medicine	69
	Social & Cultural History	70
ホスピタリティ	General & Introductory Hospitality.....	70
エンジニアリング	Engineering Technology Management.....	71
法律	Criminology.....	71
ライフスタイル	Cooking.....	72
ライフサイエンス	General Biology	72
	Cell & Molecular Biology	73
	Virology.....	73
	Genetics.....	74
	Plant Science	74
	Plant Physiology.....	75
	Plant Biotechnology.....	75
数学	Algebra.....	76
	Numerical Methods	76
	Graph Theory	77
	Cryptography	77
メディカルサイエンス	Medical Professional Development.....	78
	Emergency Medicine & Trauma.....	79
	Gastroenterology.....	79
	Oncology & Radiotherapy	80

	Medical Oncology.....	81
	Pharmacology & Pharmaceutical Medicine	81
	Radiology & Imaging.....	82
	Orthopedics.....	82
	Urology	83
機械工学	General & Introductory Mechanical Engineering	83
	Solid Mechanics	84
	Aeronautic & Aerospace Engineering	85
	Automotive Engineering.....	86
	Computational / Numerical Methods.....	86
材料科学	Joining, Welding and Adhesion.....	87
	Ceramics.....	87
	Electronic Materials.....	88
	Optical and Non-Linear Optical Materials	89
ナノテクノロジー	Nanomaterials	90
	Manipulation of Nanosystems	90
ナーシング	Nursing Education & Professional Development.....	91
物理学	Astronomy & Astrophysics.....	91
	Atmospheric Sciences.....	92
	Classical & Fluid Mechanics	93
哲学	General Philosophy.....	93
	Continental Philosophy	94
	Bioethics & Medical Ethics.....	94
	17th & 18th Century Philosophy.....	95
	Philosophy of Language.....	95
政治学	Asian Politics	96
	Global Politics.....	96
	Military / Security / Intelligence.....	97
	Political Philosophy & Theory	98

心理学	Organizational & Industrial Psychology	98
	Clinical Psychology	99
	Addictions	99
	Psychotherapy & Counseling	99
ポリマーサイエンス	Biopolymers	100
セルフヘルプ	General Self-Help	101
社会学	General Sociology	101
	Environmental Sociology	102
	Sociology of Economics	103
	Social Policy	103
統計学	Environmental Statistics & Environmetrics	104
	Medical Statistics & Epidemiology	105
	Data Analysis	105
	Multivariate Analysis	107
	Survey Research Methods & Sampling	107
	Quality, Productivity & Reliability	108
テストプレップ	Test Prep General	109
	Certification (MSCE, Novell, etc.)	109
獣医学	Veterinary Dentistry	110
	Veterinary Medicine - Farm Animals	111
	Veterinary Medicine - Equine	111

芸術

Wiley Blackwell Companion to Impressionism

EDITOR ANDRÉ DOMBROWSKI & SERIES EDITOR DANA ARNOLD

University of Southampton

The 21st century's first major academic reassessment of Impressionism, providing a new generation of scholars with a comprehensive view of critical conversations

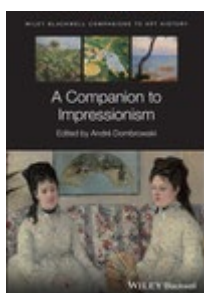
Presenting an expansive view of the study of Impressionism, this extraordinary volume breaks new thematic ground while also reconsidering established questions surrounding the definition, chronology, and membership of the Impressionist movement. In 34 original essays from established and emerging scholars, this collection considers a diverse range of developing topics and offers new critical approaches to the interpretation of Impressionist art.

Focusing on the 1860s to 1890s, this *Companion* explores artists who are well-represented in Impressionist studies, including Monet, Renoir, Degas, and Cassatt, as well as Morisot, Caillebotte, Bazille, and other significant yet lesser-known artists. The essays cover a wide variety of methodologies in addressing such topics as Impressionism's global predominance at the turn of the 20th century, the relationship between Impressionism and the emergence of new media, the materials and techniques of the Impressionists, and the movement's exhibition and reception history.

The *Wiley Blackwell Companion to Impressionism* is an invaluable text for students and academics studying Impressionism and late 19th century European art, Post-Impressionism, modern art, and modern French cultural history.

SERIES: BLACKWELL COMPANIONS TO ART HISTORY

JULY 2021 575PP
978-1-119-37389-6 CL \$185.00 (Japan)
Art History & Theory



会計学

Wiley Practitioner's Guide to GAAS 2021

Covering all SASs, SSAEs, SSARs, and Interpretations

JOANNE M. FLOOD

A comprehensive guide to GAAS for 2021, covering critical auditing standards, practices, and procedures

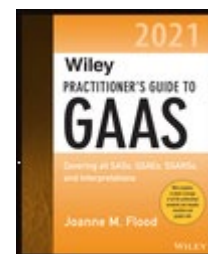
Over the last few years, the AICPA has clarified all its professional standards, raising challenges for the accounting professional to stay current and in compliance. This edition will give auditors and accountants the knowledge and understanding they will need to competently perform and successfully complete their engagements. With this valuable resource, readers will have a comprehensive guide to the latest professional standards, practices, and procedures. The *Wiley Practitioner's Guide to GAAS 2021* provides an analysis of all SASs, SSAEs, SSARs, and Interpretations. This one book provides all the most recent revisions to the standards, explaining them in a clear way that's designed for greater understanding.

Whenever standards are changed, professionals need guidance on conducting engagements efficiently and effectively. This guide to GAAS and other professional standards provides helpful, systematic direction that saves auditors and accountants time and supports them in their jobs. Readers will have a comprehensive view of moving through the process of auditing, reviewing, compiling, and preparing financial statements and performing attestation services. In addition to explanations, readers will get a detailed discussion of current issues and gain the benefits of practice notes, illustrations, checklists, and questionnaires to reference.

The *Wiley Practitioner's Guide to GAAS 2021* is a fully updated resource for completing audit, attestation, review, compilation, and preparation engagements successfully.

SERIES: WILEY REGULATORY REPORTING

JULY 2021 1152PP
978-1-119-78964-2 PB \$110.00 (Japan)
AUDITING



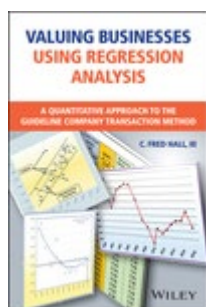
人類学

Valuing Businesses Using Regression Analysis

A Quantitative Approach to the Guideline Company Transaction Method

FRED HALL

Demystifies regression-based valuation through simple explanations, easy-to-understand charts, and time-saving bonus resources



Current methodologies using median, quartiles, or standard deviations to calculate revenue multipliers and cash flow multipliers often produce values that are wildly divergent. This forces the appraiser to choose between a very high or a very low value or consider averaging the values, opening the possibility for the appraiser to be challenged. On the surface, regression analysis appears to be the more complex, mathematical model, so many professionals shy away from using it out of fear that readers will be confused and reject the results of the appraisal. *Valuing Businesses Using Regression Analysis* solves this issue by breaking down regression to its simplest terms and providing easy-to-read charts and explanations that can be understood by all.

Since regression analysis does not come pre-installed in Excel, this book will show you how to enable Excel's regression in your computer. Then you'll learn four different Regression tools that can be used for business valuations or for forecasting in general. As an added perk, this book also comes with a template that simplifies the entire regression methodology into the click of one button. With a minimal amount of work, you can use this template to produce a compelling four-page valuation report.

This book is an excellent choice for valuers and other financial professionals ready to take the leap into regression analysis for more accurate, more objective business valuations.

JULY 2021 208PP
978-1-119-79342-7 CL \$65.00 (Japan)
Valuation

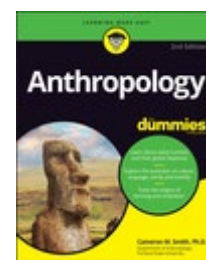
Anthropology For Dummies

2nd Edition

CAMERON M. SMITH, PORTLAND

Study the science of all of us

Anthropology is the organized study of what makes humans human. It takes an objective step back to view homo sapiens as a species and ask questions like: Given our common characteristics, why aren't all of us exactly the same? Why do people across the world have variable skin and hair color and so many inventive ways to say hello? And how can knowing the reasons behind our differences--as well as our similarities--teach us useful lessons for the future? The updated edition of *Anthropology For Dummies* gives you a panoramic view of the fascinating fieldwork and theory that seeks to answer these questions--and helps you view the human world through impartial, anthropological eyes.



Keeping the jargon to a minimum, *Anthropology For Dummies* explores the four main subdivisions of the discipline, from the adventurous Indiana Jones territory of archaeology and the hands-on biological insights provided by our physical nature to the studious book-cracking brainwork of cultural and linguistic investigation. Along the way, you'll journey deep into our prehistory where we begin to differentiate ourselves from our primate relatives--and then fast forward into the possibilities of centuries yet to come.

Whether you're studying anthropology for school or just want to know more about what makes us humans who we are, this is the perfect introduction to humanity's past and present--and a clue to what we need to build a better future.

JULY 2021 UnknownPP
978-1-119-78420-3 PB \$24.99 (Japan)
GENERAL & INTRODUCTORY ANTHROPOLOGY

建築学

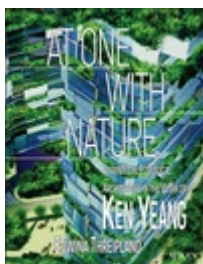
At One with Nature

Advances in Ecological Architecture in the Work of Ken Yeang

KEN YEANG, MALAYSIA & EDWINA THREIPLAND

T. R. Hamzah & Yeang, Malaysia

At One with Nature will provide an overview of Yeang's current thinking on the theory and practice of ecological design, including his technical ideas, design interpretations, aesthetic concepts for an ecological architecture, and images of Yeang's completed works. The primary aim and scope of the book is to present the current thinking and developments on the topic of ecological architecture and ecomasterplanning carried out by Ken Yeang in his research, theoretical and design work. This volume will discuss the implications of their recent developments, progressed since the 1st Edition of this book, published in 2011.



JULY 2021 240PP
978-1-119-52803-6 CL \$90.00 (Japan)
Building Design

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.

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

ビジネス

The Act of Leadership

DAN HAESLER

Unlock your true leadership potential with this insightful guide

In *The Act of Leadership*, accomplished coach and author Dan Haesler delivers an insightful treatment of the behaviors and habits required to effectively lead and coach other people.

As a leader, you might know exactly *what* you need to do, but might be less clear on *how* to do it. You might know you need to have that difficult conversation, but you're less sure about how to have it. You might know you need to hold your team accountable, but don't know how to do it in a manner that builds authentic engagement rather than mere compliance. *The Act of Leadership* goes beyond the theory. It is a coaching playbook designed to empower you to be the leader you want to be, and the leader your people need you to be.

Most books explain the *what* and the *why* of leadership, *The Act of Leadership* demonstrates the *how*. Author Dan Haesler takes a coaching approach, combining his years of experience as an educator and now coach to corporate leaders, elite athletes, teams and educators, to reveal the pivotal insights and enlightening case studies that will help you to define what kind of leader you want to be and understand how to get the best out of yourself and the people around you. You will also discover the importance of thinking and acting mindfully, instead of on autopilot, using the mindfulness techniques used by World Champions to lead in the moment, sharpen your intent, and increase your impact.

- Let go of your biases and assumptions by identifying common cognitive biases that impact how we view ourselves and our impact on others
- Adopt a growth mindset to help you deal with setbacks and mistakes
- Create organizational change that actually succeeds, by engaging people so that change is done *with* them not *to* them
- Adopt a coach-like mentality and use engaging techniques to improve your day-to-day interactions with the people you lead

Perfect for leaders, professionals, educators, and athletes seeking to improve their own performance, *The Act of Leadership* will also earn a place in the libraries of anyone hoping to improve the lives of the people who follow them, in business, sport, and life.

JULY 2021 UnknownPP
978-0-7303-9211-8 PB \$21.00 (Japan)
Business Self-Help

Changing the Game

The Playbook for Leading Business Transformation

MICHAEL VULLINGS & GRAHAM CHRISTIE

The Complete and Comprehensive Guide to Business Transformation

As digital technologies and consumer expectations continue to disrupt almost every industry sector, companies are placing greater emphasis on developing and implementing transformation programs. *Changing the Game* offers the practical knowledge required to create a dramatic step-change in company performance. Designed for executives and managers responsible for a transformation in any type of company and situation, this comprehensive real-world playbook covers the change process from start to finish -- from assessing the situation and determining strategic priorities, to developing a roadmap, establishing the governance structure, managing initiative delivery, and evaluating the impact of the transformation.

Adopting a robust and pragmatic approach to every stage of business transformation, this authoritative volume explains where to start, identifies key areas of focus, and describes the strategies, decisions, and actions necessary for achieving results. Throughout the text, case studies of leading organizations highlight essential tools and approaches, examine key challenges, and evaluate their impact. A wealth of practical tools help readers build a foundation for change in their organization, define a clear path forward, mobilize teams, assign responsibilities, execute initiatives, track progress, sustain momentum, and more.

Changing the Game: The Playbook for Leading Business Transformation is an invaluable step-by-step blueprint for executives, managers, teams, and consultants involved in devising and executing transformation programs.



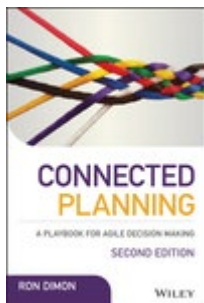
JULY 2021 UnknownPP
978-0-7303-8913-2 PB \$21.99 (Japan)
Business Technology

Connected Planning

A Playbook for Agile Decision Making

RON DIMON

Ron Dimon's thought-leading second edition of the book originally entitled *Enterprise Performance Management Done Right*, published in 2012, is a practical roadmap for using *Connected Planning* to develop an agile organization and to navigate the complex Enterprise Performance Management landscape.



According to esteemed author, researcher, and Management professor Dr. Christopher Neck, "In the same way that one needs to be self-leading to finish a grueling marathon, an organization must be self-leading in order to execute on its plans in an efficient and effective manner. What drives self-leadership at all levels in an organization? The people within the organization of course--and those people must be involved in the planning occurring in an organization. Without a plan, an organization has no direction."

Since 2012, much has changed in the world of connecting strategy with improved performance: new, cloud-based, in-memory technologies have been adopted by the largest organizations in the world. This book is for CFOs, CIOs, their direct reports, and any organizational visionary or aspiring leader who wants to bring it all together" and create an actionable vision and plan for improving readiness, resilience, and performance.

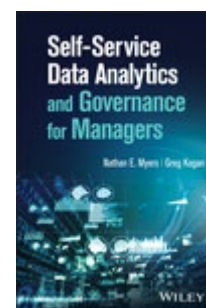
JULY 2021 224PP
978-1-119-48580-3 CL \$39.95 (Japan)
BUSINESS TECHNOLOGY

Self-Service Data Analytics and Governance for Managers

NATHAN E. MYERS & GREGORY KOGAN

Long Island University

Project governance, investment governance, and risk governance precepts are woven together in *Self-Service Data Analytics and Governance for Managers*, equipping managers to structure the inevitable chaos that can result as end-users take matters into their own hands



Motivated by the promise of control and efficiency benefits, the widespread adoption of data analytics tools has created a new fast-moving environment of digital transformation in the finance, accounting, and operations world, where entire functions spend their days processing in spreadsheets. With the decentralization of application development as users perform their own analysis on data sets and automate spreadsheet processing without the involvement of IT, governance must be revisited to maintain process control in the new environment.

In this book, emergent technologies that have given rise to data analytics and which form the evolving backdrop for digital transformation are introduced and explained, and prominent data analytics tools and capabilities will be demonstrated based on real world scenarios. The authors will provide a much-needed process discovery methodology describing how to survey the processing landscape to identify opportunities to deploy these capabilities. Perhaps most importantly, the authors will digest the mature existing data governance, IT governance, and model governance frameworks, but demonstrate that they do not comprehensively cover the full suite of data analytics builds, leaving a considerable governance gap.

This book is meant to fill the gap and provide the reader with a fit-for-purpose and actionable governance framework to protect the value created by analytics deployment at scale. Project governance, investment governance, and risk governance precepts will be woven together to equip managers to structure the inevitable chaos that can result as end-users take matters into their own hands.

JULY 2021 384PP
978-1-119-77329-0 CL \$45.00 (Japan)
Business Technology

Change

How Organizations Achieve Hard-to-Imagine Results in Uncertain and Volatile Times

JOHN P. KOTTER, VANESSA AKHTAR & GAURAV GUPTA

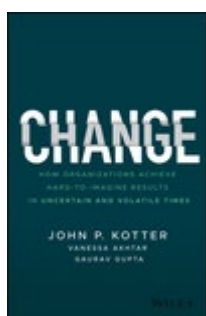
Transform your organization with speed and efficiency using this insightful new resource

Incremental improvement is no longer sufficient in helping organizations navigate the complexity, uncertainty and volatility of today's world. In *Change: How Organizations Achieve Hard-to-Imagine Results in Uncertain and Volatile Times*, authors John P. Kotter, Vanessa Akhtar, and Gaurav Gupta explore how to create non-linear, dramatic change in your organization. You'll discover the emerging science of change that teaches us about how to build organizations -- from businesses to governments -- that change and adapt rapidly.

In *Change* you'll discover:

- Why the ability of organizations to deal with threats and take advantage of opportunities in the face of ever greater complexity and uncertainty is being severely challenged
- In-depth, evidence-based, actionable solutions for dealing with institutional resistance to change
- Case studies and success stories that describe organizations who have successfully built the ability to change quickly into their DNA
- A universal approach for how to dramatically improve outcomes from various change efforts, including: strategy execution, digital transformation, restructuring, and more

Perfect for managers, executives, and leaders at companies of all types and sizes, *Change* will also prove to be a valuable asset to other professionals who serve these organizations. This book is for anyone seeking a proven approach for delivering fast, sustainable and comprehensive results.



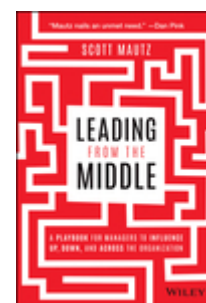
Leading from the Middle

A Playbook for Managers to Influence Up, Down, and Across the Organization

SCOTT MAUTZ

The definitive playbook for driving impact as a middle manager

Leading from the Middle: A Playbook for Managers to Influence Up, Down, and Across the Organization delivers an insightful and practical guide for the backbone of an organization: those who have a boss and are a boss and must lead from the messy middle. Accomplished author and former P&G executive Scott Mautz walks readers through the unique challenges facing these managers, and the mindset and skillset necessary for managing up and down and influencing what happens across the organization.



You'll learn the winning mindset of the best middle managers, how to develop the most important skills necessary for managing from the middle, how to create your personal Middle Action Plan (MAP), and effectively influence:

- Up the chain of command, to your boss and those above them
- Down, to your direct reports and teams who report to you
- Laterally, to peers and teams you have no formal authority over

Anyone in an organization who reports to someone and has someone reporting to them must lead from the middle. They are the most important group in an organization and have a unique opportunity to drive impact. *Leading from the Middle* explains how.

JULY 2021 256PP
978-1-119-81584-6 CL \$30.00 (Japan)
Management

JULY 2021 224PP
978-1-119-71791-1 CL \$25.00 (Japan)
Management

Leading at a Distance

Practical Lessons for Virtual Success

JAMES M. CITRIN & DARLEEN DEROSA

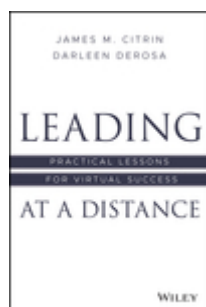
A timely and hands-on resource informed by lessons learned from Fortune 500 CEOs and executives

Leading at a Distance provides executives with the necessary skills to successfully lead in the new virtual workplace, backed by the research and expertise of global leadership firm Spencer Stuart.

Although working remotely is not new, the global pandemic has placed virtual work at the center of everyday life. And it has thrust workforce strategies to the core of business operations globally. As the shift towards large-scale virtual work continues to grow and become a permanent fixture--by some estimates, 30% of the workforce will be working virtually -- leaders must understand how to build virtual work environments that foster connected, engaged, and high-performing teams. Although some forward-thinking companies and not-for-profit organizations have made significant investments in technology and virtual collaboration, many others have simply joined the "Zoom culture" without fully appreciating what it takes to operate effectively at a distance on a sustained basis.

Leading at a Distance is a timely, research-based, and highly practical guide for developing and implementing strategies for conducting high-impact virtual work, building trust, and enhancing team unity. Designed to help leaders shape organizational culture remotely, this must-have resource demonstrates how to conduct virtual onboarding for senior leaders, build top teams from a distance, manage accountability in the new virtual environment, and much more.

Leveraging the authors' in-depth research and consulting experience, *Leading at a Distance* is required reading for anyone needing to adapt to a virtual way of working and develop their virtual leadership skills to maximize organizational effectiveness and performance.



JULY 2021 288PP
978-1-119-78244-5 CL \$25.00 (Japan)
Management / Leadership

Applied Modeling Techniques and Data Analysis 2

Financial, Demographic, Stochastic and Statistical Models and Methods

EDITOR YANNIS DIMOTIKALIS, EDITOR ALEX KARAGRIGORIOU,
EDITOR CHRISTINA PARPOULA & EDITOR CHRISTOS SKIADAS

BIG DATA, ARTIFICIAL INTELLIGENCE AND DATA ANALYSIS SET Coordinated by Jacques Janssen

Data analysis is a scientific field that continues to grow enormously, most notably over the last few decades, following rapid growth within the techindustry, as well as the wide applicability of computational techniques alongside new advances in analytic tools. Modeling enables data analysts to identify relationships, make predictions, and to understand, interpret and visualize the extracted information more strategically. This book includes the most recent advances on this topic, meeting increasing demand from wide circles of the scientific community. *Applied Modeling Techniques and Data Analysis 2* is a collective work by a number of leading scientists, analysts, engineers, mathematicians and statisticians, working on the front end of data analysis and modeling applications. The chapters cover a cross section of current concerns and research interests in the above scientific areas. The collected material is divided into appropriate sections to provide the reader with both theoretical and applied information on data analysis methods, models and techniques, along with appropriate applications.



JULY 2021 288PP
978-1-78630-674-6 CL \$165.00 (Japan)
Creativity & Innovation Management

Diversity Intelligence

How to Create a Culture of Inclusion for your Business

HEIDI R. ANDERSEN

There is a huge demand for diversity and inclusion counselling and hands on-training in the current climate. People from all parts of the world are lining up for a new approach to creating change and cultural transformation in order to create sustainable business results.

They express a need to bring new ways of talking about these topics into their organizations and to meet and accommodate all minorities groups within the organization in a more reflective and engaging way -- and on top of that to make things change.

The book will address these needs, and will cover topics including:

- The business case for diversity, inclusion and sustainable governance
- Diversity Dimensions -- what are we talking about when we say diversity'?
- Why have so many diversity programs failed?
- What did the successful companies do -- and how exactly did they reach their goals?
- Creating a culture of inclusion step by step

Diversity Intelligence will help break down the barriers to inclusion, and is a must-read for businesses supporting and driving change.

JULY 2021 256PP
978-1-119-79888-0 CL \$24.95 (Japan)
Training & Human Resource Development / Diversity

A Letter to My White Friends and Colleagues

What You Can Do Right Now to Help the Black Community

STEVEN ROGERS

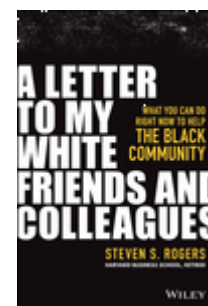
Harvard Business School

Learn how to address racial wealth disparity in the United States today

From the life, professional experiences, and research of former Harvard Business School professor Steven Rogers, comes his boldly stated, *A Letter to My White Friends and Colleagues*. This informative epistle investigates the causes of racial wealth disparity in the United States and provides solutions for addressing it. Through extensive data and historical research, anecdotes, teaching, and case studies, it presents practical ways White people can work with and help the Black community. It teaches readers that eliminating the \$153,000 wealth gap between Black and White people is the solution to over 75% of our problems and offers solutions to help improve Black-White racial relations in the United States.

In straightforward language, filled with facts, stories, advice, and sometimes even humor, *A Letter to My White Friends and Colleagues* encourages every White person to share his/her wealth with the Black community--plain and simple. This book recommends that you spend a portion of your annual household budget with Black-owned companies. If more money is spent at Black-owned businesses, those companies can grow and create more jobs for Black people. Rogers also proposes White people make large savings deposits into Black-owned banks. These are the financial institutions that are the backbone of the Black community that provide loans to the Black community for businesses, education, automobiles, and home mortgages.

This groundbreaking book provides financial recommendations that you can put into practice today, using his helpful instructions in most of the chapters, to address the systemic inequality between White and Black Americans. Read *A Letter to My White Friends and Colleagues* and be part of the path forward.



JULY 2021 256PP
978-1-119-79477-6 CL \$28.00 (Japan)
Business & Society

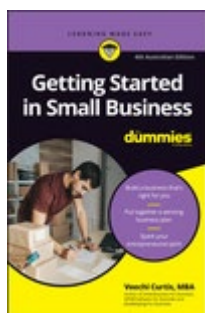
Getting Started in Small Business For Dummies

4th Edition

VEECHI CURTIS

The big ideas that you'll need to run your small business

So, you've decided to take the plunge into being an entrepreneur. (Congratulations, by the way!) Do you need advice about business structures, marketing, hiring employees, keeping the books or modelling financial scenarios? You can do it all, with *Getting Started in Small Business For Dummies*. Turn your bright idea into a real-world success and have fun while you're at it!



Planning is the trick for succeeding in small business. This process needn't be daunting, especially if you can get the timing right, pick a strategy that works and chart a sound financial course. And if your best-laid plans go sideways, there's always hope, and a practical way forward, right inside this book.

- Decide whether small business ownership is right for you, and assess the viability of your business idea
- Devise a clear strategy so you can get ahead of the competition
- Master the marketing must-haves to build a successful brand
- Find that extra bit of profit with smart business decisions
- Hire the right employees and build a winning team

This latest edition is fully updated to respond to Australia's rapidly changing business environment, delivering an easy-to-understand guide which will help you get your business off the ground!

JULY 2021 UnknownPP
978-0-7303-8485-4 PB \$13.58 (Japan)
SMALL BUSINESS & ENTREPRENEURSHIP

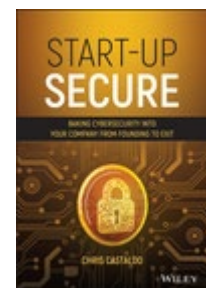
Start-Up Secure

Baking Cybersecurity into Your Company from Founding to Exit

CHRIS CASTALDO

Add cybersecurity to your value proposition and protect your company from cyberattacks

Cybersecurity is now a requirement for every company in the world regardless of size or industry. *Start-Up Secure: Baking Cybersecurity into Your Company from Founding to Exit* covers everything a founder, entrepreneur and venture capitalist should know when building a secure company in today's world. It takes you step-by-step through the cybersecurity moves you need to make at every stage, from landing your first round of funding through to a successful exit. The book describes how to include security and privacy from the start and build a cyber resilient company. You'll learn the basic cybersecurity concepts every founder needs to know, and you'll see how baking in security drives the value proposition for your startup's target market. This book will also show you how to scale cybersecurity within your organization, even if you aren't an expert!



Cybersecurity as a whole can be overwhelming for startup founders. *Start-Up Secure* breaks down the essentials so you can determine what is right for your start-up and your customers. You'll learn techniques, tools, and strategies that will ensure data security for yourself, your customers, your funders, and your employees. Pick and choose the suggestions that make the most sense for your situation--based on the solid information in this book.

Start-Up Secure is the go-to source on cybersecurity for start-up entrepreneurs, leaders, and individual contributors who need to select the right frameworks and standards at every phase of the entrepreneurial journey.

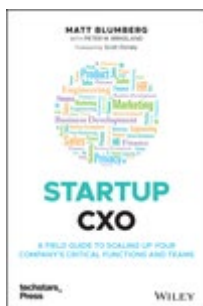
JULY 2021 160PP
978-1-119-70073-9 CL \$39.95 (Japan)
Small Business & Entrepreneurship

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

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

Third Shift Entrepreneur

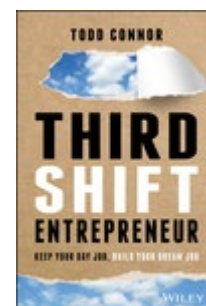
Keep Your Day Job, Build Your Dream Job

TODD CONNOR

Praise for THIRD SHIFT ENTREPRENEUR

"A must read for any aspiring entrepreneur with the itch to start their own business who is wondering 'but what do I do first?'"

—Gino Wickman, Author of *Traction* and Creator of EOS



"Our country and our communities are better when people bring their own ideas to life as entrepreneurs — and this book written as an engaging story helps show us how. If you're ready to step into the arena, grab hold of this book and the strategies in it."

—Robert A. McDonald, 8th Secretary of the Department of Veteran Affairs Retired Chairman, President and CEO of The Procter & Gamble Company

START YOUR DREAM BUSINESS WITHOUT THE RISK!

Too often people hold the dream of starting their own business and pursuing their destiny, but they are overcome not just by fear, but by the practical reality that they can not afford to take a financial risk. *Third Shift Entrepreneur* overcomes that false choice of settling for less or taking a financial risk and instead reveals a third path — one that allows you to fulfill your creative entrepreneurial potential while maintaining financial stability in your life.

If you are longing to make your life's work a reality, *Third Shift Entrepreneur* offers a roadmap that will give you the confidence to stop dreaming and start on your own journey to success.

JULY 2021 256PP
978-1-119-70836-0 CL \$25.00 (Japan)
Small Business & Entrepreneurship

Applied Modeling Techniques and Data Analysis 1

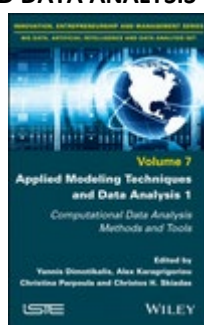
Computational Data Analysis Methods and Tools

EDITOR YANNIS DIMOTIKALIS, EDITOR ALEX KARAGRIGORIOU,
EDITOR CHRISTINA PARPOULA & EDITOR CHRISTOS SKIADAS

BIG DATA, ARTIFICIAL INTELLIGENCE AND DATA ANALYSIS
SETCoordinated by Jacques Janssen

Data analysis is a scientific field that continues to grow enormously, most notably over the last few decades, following rapid growth within the techindustry, as well as the wide applicability of computational techniques alongside new advances in analytic tools. Modeling enables data analysts to identify relationships, make predictions, and to understand, interpret and visualize the extracted information more strategically.

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JULY 2021 304PP
978-1-78630-673-9 CL \$165.00 (Japan)
Business & Management Special Topics

チルドレン

Janice VanCleave's Physics for Every Kid

Easy Activities That Make Learning Science Fun

2nd Edition

JANICE VANCLEAVE, RIESEL & ILLUSTRATOR TINA CASH WALSH

Ignite a passion for science in your student or child with these fascinating physics experiments for kids!

Janice VanCleave's Physics for Every Kid: Easy Activities That Make Learning Science Fun, 2nd Edition offers new and lively experiments designed to ignite a passion for science in every child. Designed for children of all ages, this book includes high-interest experiments suitable for home learning, science fair participation, and active classrooms.



Physics for Every Kid is sure to engage the natural curiosity of children with experiments that stimulate the mind and encourage a foundation in the principles of physics. With common household items, you'll be able to create:

- Pendulums
- Air cars
- Experiments exploring magnets, sound, motion, light, and more

This update to the celebrated Janice VanCleave series includes a fresh new look with full-color illustrations and easy-to-understand explanations for each experiment.

Perfect for educators and parents of middle school students, *Physics for Every Kid* can be used at home just for do-it-yourself science fun and in the classroom to build learning experiences that enlighten and entertain students.

SERIES: SCIENCE FOR EVERY KID SERIES

JULY 2021 UnknownPP
978-1-119-65428-5 PB \$17.99 (Japan)
CHILDREN'S SCIENCE

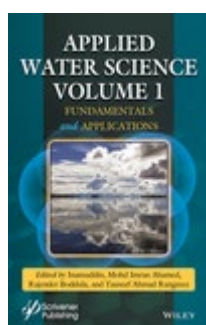
土木工学

Applied Water Science

Fundamentals and Applications, Volume 1

INAMUDDIN, MOHD IMRAN AHAMED, RAJENDER BODDULA
& TAUSEEF AHMAD RANGREEZKing Abdulaziz University, Jeddah, Saudi Arabia; Aligarh
Muslim University, Aligarh, India; Aligarh Muslim University,
Aligarh, India; National Center for Nanoscience and
Technology (NCNST, Beijing)

Water is one of the most precious and basic needs of life for all living beings, and a precious national asset. Without it, the existence of life cannot be imagined. Availability of pure water is decreasing day by day, and water scarcity has become a major problem that is faced by our society for the past few years. Hence, it is essential to find and disseminate the key solutions for water quality and scarcity issues. The inaccessibility and poor water quality continue to pose a major threat to human health worldwide. Around billions of people lacking to access drinkable water. The water contains the pathogenic impurities; which are responsible for water-borne diseases. The concept of water quality mainly depends on the chemical, physical, biological, and radiological measurement standards to evaluate the water quality and determine the concentration of all components, then compare the results of this concentration with the purpose for which this water is used. Therefore, awareness and a firm grounding in water science are the primary needs of readers, professionals, and researchers working in this research area. This book explores the basic concepts and applications of water science. It provides an in-depth look at water pollutants' classification, water recycling, qualitative and quantitative analysis, and efficient wastewater treatment methodologies. It also provides occurrence, human health risk assessment, strategies for removal of radionuclides and pharmaceuticals in aquatic systems. The book chapters are written by leading researchers throughout the world. This book is an invaluable guide to students, professors, scientists and R&D industrial specialists working in the field of environmental science, geoscience, water science, physics and chemistry.

JULY 2021 560PP
978-1-119-72476-6 CL \$225.00 (Japan)
Hydraulic / Water Engineering**Why do buildings collapse in earthquakes?
Building for safety in seismic areas**

ROBIN SPENCE & EMILY SO

Magdalene College, Cambridge

Using the experienced gained from many years as members of the UK's Earthquake Engineering Field Investigation Team (EEFIT) the authors will explain how buildings have fared in recent earthquakes around the world. Using empirical evidence and analyses they will show:

- why buildings have collapsed
- the way buildings collapse in earthquakes
- which building types are the main cause of casualties in earthquakes

They will illustrate the key lessons learnt about failures as well as successes in earthquake engineering and disaster preparedness and will review what is being done to reduce vulnerability to earthquakes.

JULY 2021 256PP
978-1-119-61942-0 CL \$110.00 (Japan)
Earthquake

化学工学

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.

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

Cyanobacteria biotechnology

EDITOR PAUL HUDSON, SERIES EDITOR SANG YUP LEE, SERIES
EDITOR JENS NIELSEN & SERIES EDITOR GREGORY
STEPHANOPOULOS

KAIST, Daejeon, Republic Korea; Center for Microbial
Biotechnology; Massachusetts Institute of Technology, USA

Unites a biological and a biotechnological perspective on cyanobacteria, and includes the industrial aspects and applications of cyanobacteria



Cyanobacteria Biotechnology offers a guide to the interesting and useful features of cyanobacteria metabolism that keeps true to a biotechnology vision. In one volume the book brings together both biology and biotechnology to illuminate the core aspects and principles of cyanobacteria metabolism.

Designed to offer a practical approach to the metabolic engineering of cyanobacteria, the book contains relevant examples of how this metabolic "module" is currently being engineered and how it could be engineered in the future. The author includes information on the requirements and real-world experiences of the industrial applications of cyanobacteria.

Written for biotechnologists, microbiologists, biologists, biochemists, *Cyanobacteria Biotechnology* provides a systematic and clear volume that brings together the biological and biotechnological perspective on cyanobacteria.

SERIES: ADVANCED BIOTECHNOLOGY

MAY 2021 560PP
978-3-527-34714-8 CL \$195.00 (Japan)
Biochemical Engineering

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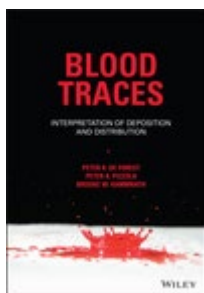
Blood Traces

Interpretation of Deposition and Distribution

PETER R. DE FOREST, PETER A. PIZZOLA & BROOKE W. KAMMRATH

A guide to the scientific interpretation of blood traces

Blood Traces provides an authoritative resource that reviews many of the aspects of the interpretation of blood traces that have not been treated with the thoroughness they deserve. With strict adherence to the scientific method, the authors -- noted experts on the topic -- address the complexities encountered when interpreting blood trace configurations. The book provides an understanding of the scientific basis for the use of blood trace deposits, i.e. bloodstain patterns, at crime scenes to better reconstruct a criminal event.



The authors define eight overarching principles for the comprehensive analysis and interpretation of blood trace configurations. Three of these principles are: blood traces may reveal a great deal of useful information; extensive blood traces, although present, may not always yield information relevant to questions that may arise in a given case; and a collection of a few seemingly related dried blood droplet deposits is not necessarily an interpretable "pattern". This important resource:

- Provides the fundamental principles for the scientific examination and understanding of blood trace deposits and configurations
- Dispels commonly accepted misinformation about blood traces.
- Contains a variety of illustrative case examples which will aid in demonstrating the concepts discussed

Written for forensic scientists, crime scene investigators, members of the legal community, and students in these fields, *Blood Traces* presents the fundamental principles for the scientific examination of blood trace deposits and configurations.

JULY 2021 386PP
978-1-119-76453-3 CL \$135.00 (Japan)
Forensics

Handbook of Ecological and Ecosystem Engineering

M. N. V. PRASAD

University of Hyderabad, India

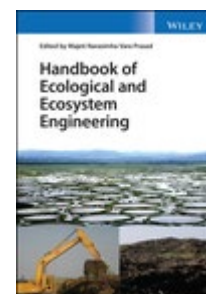
Learn from this integrated approach to the management and restoration of ecosystems edited by an international leader in the field

The *Handbook of Ecological and Ecosystem Engineering* delivers a comprehensive overview of the latest research and practical developments in the rapidly evolving fields of ecological and ecosystem engineering. Beginning with an introduction to the theory and practice of ecological engineering and ecosystem services, the book addresses a wide variety of issues central to the restoration and remediation of ecological environments.

The book contains fulsome analyses of the restoration, rehabilitation, conservation, sustainability, reconstruction, remediation, and reclamation of ecosystems using ecological engineering techniques. Case studies are used to highlight practical applications of the theory discussed within.

The material in the *Handbook of Ecological and Ecosystem Engineering* is particularly relevant at a time when the human population is dramatically rising, and the exploitation of natural resources is putting increasing pressure on planetary ecosystems. The book demonstrates how modern scientific ecology can contribute to the greening of the environment through the inclusion of concrete examples of successful applied management.

Perfect for academic researchers, industry scientists, and environmental engineers working in the fields of ecological engineering, environmental science, and biotechnology, the *Handbook of Ecological and Ecosystem Engineering* also belongs on the bookshelves of environmental regulators and consultants, policy makers, and employees of non-governmental organizations working on sustainable development.



JULY 2021 544PP
978-1-119-67853-3 CL \$220.00 (Japan)
Environmental Chemistry

Metabolic Engineering

Concepts and Applications

EDITOR SANG YUP LEE, EDITOR JENS NIELSEN & EDITOR GREGORY STEPHANOPOULOS

KAIST, Daejeon, Republic Korea; Center for Microbial Biotechnology; Massachusetts Institute of Technology, USA

Learn more about foundational and advanced topics in metabolic engineering in this comprehensive resource edited by leaders in the field

Metabolic Engineering: Concepts and Applications delivers a one-stop resource for readers seeking a complete description of the concepts, models, and applications of metabolic engineering. This guide offers practical insights into the metabolic engineering of major cell lines, including *E. coli*, *Bacillus* and *Yarrowia lipolytica*, and organisms, including human, animal, and plant. The distinguished editors also offer readers resources on microbiome engineering and the use of metabolic engineering in bioremediation.

Written in two parts, *Metabolic Engineering* begins with the essential models and strategies of the field, like Flux Balance Analysis, Quantitative Flux Analysis, and Proteome Constrained Models. It also provides an overview of topics like Pathway Design, Metabolomics, and Genome Editing of Bacteria and Eukarya.

The second part contains insightful descriptions of the practical applications of metabolic engineering, including specific examples that shed light on the topics within. In addition to subjects like the metabolic engineering of animals, humans, and plants, you'll learn more about:

- Metabolic engineering concepts and a historical perspective on their development
- The different modes of analysis, including flux balance analysis and quantitative flux analysis
- An illuminating and complete discussion of the thermodynamics of metabolic pathways
- The Genome architecture of *E. coli*, as well as genome editing of both bacteria and eukarya
- An in-depth treatment of the application of metabolic engineering techniques to organisms including *Corynebacterium*, *Bacillus*, and *Pseudomonas*, and more

SERIES: ADVANCED BIOTECHNOLOGY

JULY 2021 960PP
978-3-527-34662-2 CL \$395.00 (Japan)
Biotechnology (Chemistry)

Protein Engineering

Tools and Applications

EDITOR HUIMIN ZHAO, SERIES EDITOR SANG YUP LEE, SERIES EDITOR JENS NIELSEN & SERIES EDITOR GREGORY STEPHANOPOULOS

A one-stop reference that reviews protein design strategies to applications in industrial and medical biotechnology

Protein Engineering: Tools and Applications is a comprehensive resource that offers a systematic and comprehensive review of the most recent advances in the field, and contains detailed information on the methodologies and strategies behind these approaches. The authors--noted experts on the topic--explore the distinctive advantages and disadvantages of the presented methodologies and strategies in a targeted and focused manner that allows for the adaptation and implementation of the strategies for new applications.

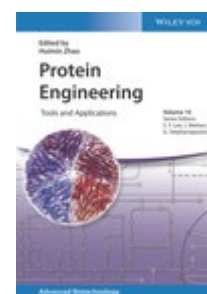
The book contains information on the directed evolution, rational design, and semi-rational design of proteins and offers a review of the most recent applications in industrial and medical biotechnology. This important book:

- Covers technologies and methodologies used in protein engineering
- Includes the strategies behind the approaches, designed to help with the adaptation and implementation of these strategies for new applications
- Offers a comprehensive and thorough treatment of protein engineering from primary strategies to applications in industrial and medical biotechnology
- Presents cutting edge advances in the continuously evolving field of protein engineering

Written for students and professionals of bioengineering, biotechnology, biochemistry, *Protein Engineering: Tools and Applications* offers an essential resource to the design strategies in protein engineering and reviews recent applications.

SERIES: ADVANCED BIOTECHNOLOGY

JULY 2021 512PP
978-3-527-34470-3 CL \$175.00 (Japan)
Biotechnology (Chemistry)



Flavin-based Catalysis

Principles and Applications

EDITOR RADEK CIBULKA & EDITOR MARCO W. FRAAIJE

The book gives a unique overview of this rapidly developing research field, presenting structures and properties of flavin derivatives as well as their proven application as bioinspired catalysts in various organocatalytic, biocatalytic, and photocatalytic reactions.

JULY 2021 300PP
978-3-527-34834-3 CL \$154.01 (Japan)
Catalysis

Manganese Catalysis in Organic Synthesis

EDITOR JEAN-BAPTISTE SORTAIS

This unique book highlights the most important reactions in the presence of homogeneous manganese catalysts, e.g. reduction reactions, C-H functionalization, cross-coupling reactions etc.

JULY 2021 350PP
978-3-527-34730-8 CL \$157.90 (Japan)
Catalysis

Delivering Safety Excellence

Engagement Culture at Every Level

MICHAEL WILLIAMSEN

Discover how to overcome a culture of inadequately addressing risk and thereby achieve safe working practices from a leader in the field

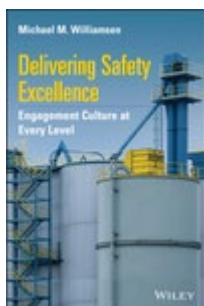
Delivering Safety Excellence: Engagement Culture At Every Level provides an in-depth and practical overview of how to energize frontline

employees, supervisors, managers, and leaders to overcome and solve regularly occurring safety concerns. The book teaches readers how to resolve dysfunctional safety cultures by engaging employees at all levels. This cross functional engagement culture regularly builds safe and effective working practices that eliminate regulatory, financial, and personal risk shortfalls while encouraging profitability and efficiency.

The distinguished author shows how culture improvement processes and models can be utilized to improve the performance all across an organization. The material is presented in dialogue format using case studies to highlight the relationship between the concepts discussed and their application in the real world.

You'll discover how to implement real solutions in industries of all types and in organizations of all sizes using practical and concrete strategies tested by the author in regions and varying cultures around the world.

Perfect for safety officers at all levels of organizations of any size, *Delivering Safety Excellence: Engagement Culture At Every Level* will also earn a place in the libraries of executives, managers, leaders, supervisors, and employees who seek a one-stop reference for how to build a safe and profitable company.

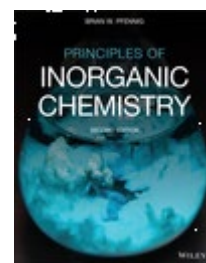


Principles of Inorganic Chemistry

2nd Edition

BRIAN W. PFENNIG

This text is designed for undergraduates and introductory-level graduate students taking an inorganic or advanced inorganic chemistry course. It appeals to instructors looking for a more physical inorganic chemistry course. Written in an informal and engaging style, the author includes in-chapter worked problems, explains difficult concepts in simplistic terms, and deposits some mathematical derivations into "in-depth" boxes within the chapter or appendices. The largest change between this edition and the previous is a pedagogical restructuring of the material in a more logical order and the gradual development of underlying concepts as one progresses through the textbook. Several introductory chapters are streamlined and combined from the 1st edition, others are updated, and there is greater emphasis on molecular orbital depictions of organometallic transformations. New to this edition are an increased emphasis on the comparison of the strengths and weaknesses of different models, the interconnectedness of VBT (valence bond theory) and MOT (molecular orbital theory), and a more thorough discussion of the atoms in molecules topological model. In addition, there are more end-of-chapter problems and a solutions guide for adopting instructors.



JULY 2021 UnknownPP
978-1-119-65032-4 PB \$150.00 (Japan)
INORGANIC CHEMISTRY

JULY 2021 272PP
978-1-119-77213-2 CL \$89.95 (Japan)
Chemical and Environmental Health and Safety

Supramolecular Chemistry

3rd Edition

JONATHAN W. STEED & JERRY L. ATWOOD

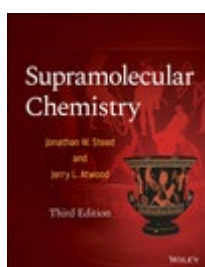
King's College, London; University of Missouri, Columbia

A one-stop, comprehensive, and thoroughly updated resource for students, professors, and researchers alike

Thoroughly revised and updated, the Third Edition of *Supramolecular Chemistry* delivers a comprehensive and integrated approach to this rapidly evolving and quickly expanding field. Distinguished professors and authors Jonathan Steed and Jerry Atwood provide readers with a broad and exhaustive resource that assumes little in the way of prior knowledge of supramolecular chemistry.

Extensive new content on cutting edge research throughout the field including molecular machines and the mechanical bond, mechanochemistry, halogen bonding, and crystal nucleation accompanies full-color imagery and study problems designed to help students understand and apply the principles introduced within the book.

Perfect for undergraduate and postgraduate students taking courses on supramolecular chemistry, the Third Edition of *Supramolecular Chemistry* also belongs on the bookshelves of all researchers in this, and any closely related, fields. Academics, in particular postdoctoral students and professors, will benefit significantly from this text.



JULY 2021 1000PP
978-1-119-58251-9 CL \$100.00 (Japan)
SUPRAMOLECULAR CHEMISTRY

Astrochemistry

The Physical Chemistry of the Universe

2nd Edition

ANDREW M. SHAW, UNITED KINGDOM

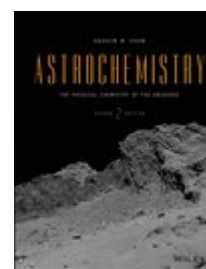
University of Exeter, UK

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.



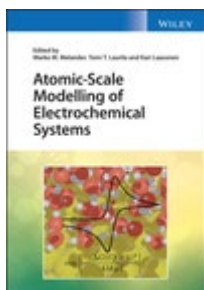
JULY 2021 480PP
978-1-119-11472-7 CL \$90.00 (Japan)
PHYSICAL CHEMISTRY

Atomic-Scale Modelling of Electrochemical Systems

EDITOR MARKO MELANDER, EDITOR TOMI LAURILA & EDITOR KARI LAASONEN

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

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



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

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

JULY 2021 472PP
978-1-119-60561-4 CL \$185.00 (Japan)
Electrochemistry

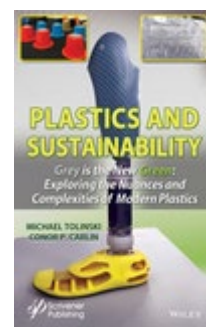
Plastics and Sustainability Grey is the New Green

Exploring the Nuances and Complexities of Modern Plastics, 2nd Edition

MICHAEL TOLINSKI & CONOR P. CARLIN

Plastics & Sustainability clearly lays out the thorny and contentious issues that we encounter at the nexus of plastics and sustainability. The book serves as a practical guide for making sustainability decisions about how plastics are made and used, including current developments in the newest bio-based plastics. Designers, marketers, academics, and engineers will all find something of value in this balanced and thoughtful second edition.

Increased public scrutiny of plastics materials and the plastics industry has led, paradoxically, to both a deeper understanding and growing confusion about polymers, their origins, their uses, their risks, and ultimately their disposal. The author makes objective comparisons among major polymer grades and bioplastics including their life cycle assessments and practical performance in commercial applications.



JULY 2021 288PP
978-1-119-59184-9 CL \$125.00 (Japan)
SUSTAINABLE CHEMISTRY & GREEN CHEMISTRY

Deep Learning for Physical Scientists

Accelerating Research with Machine Learning

EDWARD O. PYZER-KNAPP & MATTHEW BENATAN

Discover the power of machine learning in the physical sciences with this one-stop resource from a leading voice in the field

Deep Learning for Physical Scientists: Accelerating Research with Machine Learning delivers an insightful analysis of the transformative techniques being used in deep learning within the physical sciences. The book offers readers the ability to understand, select, and apply the best deep learning techniques for their individual research problem and interpret the outcome.

Designed to teach researchers to think in useful new ways about how to achieve results in their research, the book provides scientists with new avenues to attack problems and avoid common pitfalls and problems. Practical case studies and problems are presented, giving readers an opportunity to put what they have learned into practice, with exemplar coding approaches provided to assist the reader.

From modelling basics to feed-forward networks, the book offers a broad cross-section of machine learning techniques to improve physical science research. Readers will also enjoy:

- A thorough introduction to the basic classification and regression with perceptrons
- An exploration of training algorithms, including back propagation and stochastic gradient descent and the parallelization of training
- An examination of multi-layer perceptrons for learning from descriptors and de-noising data
- Discussions of recurrent neural networks for learning from sequences and convolutional neural networks for learning from images
- A treatment of Bayesian optimization for tuning deep learning architectures

JULY 2021 248PP
978-1-119-40833-8 CL \$95.00 (Japan)
Computational Chemistry & Molecular Modeling

Chemistry Entrepreneurship

JAVIER GARCIA-MARTINEZ & KUNHAO LI

The book is a step-by-step guide specifically devoted to start and grow a new company in the chemistry sector. It covers the different aspects of the creation of a new chemical enterprise including: the protection of the invention, the business plan, the transfer from the research center or university, the financing, the legal setup, the launching of the company and its growth and exit strategies.

JULY 2021 325PP
978-3-527-34544-1 CL \$168.73 (Japan)
Business & Management in Chemistry

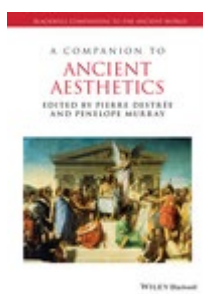
文化研究

A Companion to Ancient Aesthetics

PIERRE DESTREE & PENELOPE MURRAY

University of Warwick; University of Louvain, College Mercier

The first of its kind, *A Companion to Ancient Aesthetics* presents a synoptic view of the arts, which crosses traditional boundaries and explores the aesthetic experience of the ancients across a range of media--oral, aural, visual, and literary.



- Investigates the many ways in which the arts were experienced and conceptualized in the ancient world
- Explores the aesthetic experience of the ancients across a range of media, treating literary, oral, aural, and visual arts together in a single volume
- Presents an integrated perspective on the major themes of ancient aesthetics which challenges traditional demarcations
- Raises questions about the similarities and differences between ancient and modern ways of thinking about the place of art in society

SERIES: BLACKWELL COMPANIONS TO THE ANCIENT WORLD

JULY 2021 552PP
978-1-119-06391-9 PB \$57.25 (Japan)
9781444337648 CL \$202.75 (Japan) Published, JUL 2015
Ancient Culture

コミュニケーション

The Handbook of Strategic Communication

CARL H. BOTAN

George Mason University

Presents cocreational perspectives on current international practices and theories relevant to strategic communication



The *Handbook of Strategic Communication* brings together work from leading scholars and practitioners in the field to explore the many national and cultural differences in modern approaches to strategic communication. Designed to provide a coherent understanding of strategic communication across various subfields, this authoritative volume familiarizes practitioners, researchers, and advanced students with an inclusive range of international practices, current theories, and contemporary debates and issues in this dynamic multidisciplinary field.

The *Handbook* covers an expansive range of strategic communication models, theories, and applications, comprising two dozen in-depth chapters written by 47 international scholars and practitioners. In-depth essays discuss the three core areas of strategic communication--public relations, marketing communication, and health communication--and their many subfields, such as political communication, issues management, crisis and risk communication, environmental and science communication, public diplomacy, disaster management, strategic communication for social movements and religious communities, and many others.

The *Handbook of Strategic Communication* is an indispensable resource for practitioners, researchers, scholars, and students involved in any aspect of strategic communication across its many subfields.

SERIES: HANDBOOKS IN COMMUNICATION AND MEDIA

JULY 2021 400PP
978-1-118-85214-9 CL \$185.00 (Japan)
General Communication & Media Studies

Platforms and Cultural Production

THOMAS POELL, DAVID B. NIEBORG & BROOKE ERIN DUFFY

READERSHIP: Advanced students, scholars, and policy-makers trying to monitor, stimulate, and regulate cultural production in Media and Communication studies, Information studies, and Science and Technology studies. Core reading for courses on Political Economy of Culture, Platform Economy, Cultural Industries, Internet studies, and Innovation in the Creative Sector.

JULY 2021 260PP
978-1-5095-4050-1 CL \$69.95 (Japan)
978-1-5095-4051-8 PB \$24.95 (Japan)
Media Studies

Wi-Fi

JULIAN THOMAS, ROWAN WILKEN & ELLIE RENNIE

READERSHIP: Undergraduates, postgraduates and scholars in Media and Communication, New Media, Internet Studies, Social Studies of Technologies, Cultural Studies, Sociology, and Human-Computer Interaction.

SERIES: DIGITAL MEDIA AND SOCIETY

JULY 2021 500PP
978-1-5095-2989-6 CL \$64.95 (Japan)
978-1-5095-2990-2 PB \$22.95
Media Studies



Youth on Screen

Representing Young People in Film and Television

DAVID BUCKINGHAM

Institute of Education, University of London

READERSHIP: Undergraduate and postgraduate students of media, film and television, and cultural studies, and potentially those taking courses in childhood/youth studies, sociology, history, and education.



JULY 2021 256PP
978-1-5095-4525-4 CL \$69.95 (Japan)
978-1-5095-4526-1 PB \$24.95 (Japan)
Media Studies

Cord Cutting For Dummies

PAUL MCFEDRIES, TORONTO, ONTARIO, CANADA

Fast and easy steps to cutting your cable bill



The era of streaming means you have a real alternative to the cable and satellite services that once dictated what you could watch on TV. Cutting the cord requires some know-how for improving your wifi, setting up devices ready for streaming, and picking the services that fit your TV watching needs. This book gathers all the answers in one spot. Follow simple guidance on evaluating if cord-cutting is the right choice for you, evaluating your current equipment, upgrading your hardware and wifi, and picking streaming services that fit your new budget.

Inside...

- * Making the choice to cut or not to cut
- * Pumping up your wifi
- * Evaluating your current devices
- * Bringing in smart TVs
- * Choosing the best streaming services
- * Making it part of your smarter home

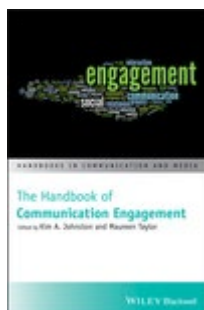
JULY 2021 UnknownPP
978-1-119-80093-4 PB \$16.99 (Japan)
TV & Radio

The Handbook of Communication Engagement

EDITOR KIM A. JOHNSTON & EDITOR MAUREEN TAYLOR

A comprehensive volume that offers the most current thinking on the practice and theory of engagement

With contributions from an international panel of leaders representing diverse academic and professional fields *The Handbook of Communication Engagement* brings together in one volume writings on both the theory and practice of engagement in today's organizations and societies. The expert contributors explore the philosophical, theoretical, and applied concepts of communication engagement as it pertains to building interaction and connections in a globalized, networked society.



The Handbook of Communication Engagement is comprehensive in scope with case studies of engagement from various disciplines including public relations, marketing, advertising, employee relations, education, public diplomacy, and politics. The authors advance the current thinking in engagement theory, strategy, and practice and provide a review of foundational and emerging research in engagement topics.

The Handbook of Communication Engagement offers an essential reference for advanced undergraduate, graduate students, practitioners and scholars from communication, media, advertising, public relations, public policy, and public diplomacy areas. The volume contains a compendium of the writings on the most recent advances on the theory and practice of engagement.

Winner of the 2018 PRIDE Award for Innovation, Development, and Educational Achievement from the Public Relations Division of the National Communication Association.

SERIES: HANDBOOKS IN COMMUNICATION AND MEDIA

JULY 2021 550PP
978-1-119-16750-1 PB \$54.95 (Japan)
9781119167495 CL \$ 210.00 (Japan) Published, JUNE 2018
Public Relations & Advertising

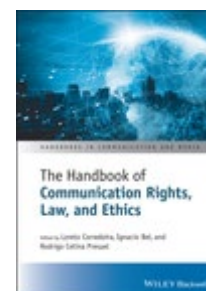
The Handbook of Communication Rights, Law, and Ethics

EDITOR LORETO CORREDOIRA, EDITOR IGNACIO BEL & EDITOR RODRIGO CETINA PRESUEL

Complutense University; University of Navarra, Madrid; Harvard

Discover how modern technological realities shape freedoms of expression and opinion with this comprehensive resource.

The Handbook of Communication Rights, Law, and Ethics delivers a comprehensive review of the challenges facing modern communication rights. It offers readers an examination of the interplay between communication law and ethics, and the role played by communication professionals in protecting individuals' right to communication.



Distinguished professors and authors Loreto Corredoira, Rodrigo Cetina Presuel, and Ignacio Bel walk you through the fundamental ideas and concepts that represent universal common ground amongst all conceptions of communication rights. They compare and contrast communication rights theories developed in Europe, the United States, Latin America, Australia and East Asia. The authors also describe how communication-related freedoms and rights are formulated and applied around the world. Finally, the meaning of the phrases "freedom of expression" and "freedom of the press" are examined in the context of national constitutions and international human rights instruments.

Perfect for professors, graduate students, doctoral students, and postdoctoral researchers studying communication rights and freedom of expression around the world, the *Handbook of Communication Rights, Law, and Ethics* also belongs on the bookshelves of researchers studying issues surrounding freedom of the press in North America, Europe, and Latin America.

SERIES: HANDBOOKS IN COMMUNICATION AND MEDIA

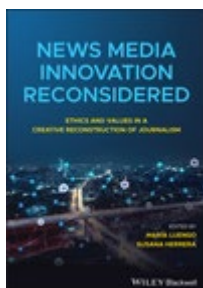
JULY 2021 352PP
978-1-119-71940-3 CL \$185.00 (Japan)
Media Law & Ethics

News Media Innovation Reconsidered

EDITOR MARIA LUENGO & EDITOR SUSANA HERRERA-DAMAS

A guide to journalistic ethics for today's digital technologies

With contributions from an international panel of experts on the topic, *New Media Innovation Reconsidered* offers a guide for the revitalizing of the ethical and civil ideals of journalism. The authors discuss how to energize journalistic practices and products and explore how to harness the power of digital technological innovations such as immersive journalism, the automatization and personalization of news, newsgames, and artificial-intelligence news production.



The book presents an innovative framework of "creative reconstruction" and reviews new journalistic concepts, models, initiatives, and practices that clearly demonstrate professional ethics that embrace truth seeking, transparency, fact checking, and accuracy, and other ethical considerations. While the contributors represent numerous countries, many of examples are drawn from the Spanish-speaking media and can serve as models for an international audience. This important book:

- Explores the impact on the news media from mobile-first, virtual reality, and artificial intelligence-driven platforms
- Examines the challenges of maintaining journalistic ethics in today's digital world
- Demonstrates how to use technology to expose readers to news outside their comfort zones
- Provides information for discerning truth from fake news

Written for researchers, students in journalism and communication programs, *New Media Innovation Reconsidered* offers a much-needed guide for recreating journalistic ethics in our digital age.

JULY 2021 255PP
978-1-119-70649-6 PB \$49.95 (Japan)
Journalism

Trusting the News in a Digital Age

Toward a "New" News Literacy

JEFFREY DVORKIN

How to use critical thinking to discern real news from fake news

Trusting the News in a Digital Age provides an ethical framework and the much-needed tools for assessing information produced in our digital age. With the tsunami of information on social media and other venues, many have come to distrust all forms of communication including the news. This practical text offers guidance on how to use critical thinking, appropriate skepticism, and journalistic curiosity to handle this flow of undifferentiated information.



Designed to encourage critical thinking, each chapter introduces specific content, followed at the end of each section with an ethical dilemma. The ideas presented are based on the author's experiences as a teacher and public editor/ombudsman at NPR News. *Trusting the News in a Digital Age* prepares readers to deal with changes to news and information in the digital environment. It brings to light the fact that journalism is about treating the public as citizens first, and consumers of information second. This important text:

- Reveals how to use critical thinking to handle the never-ending flow of information
- Contains ethical dilemmas to help sharpen critical thinking skills
- Explains how to verify sources and spot frauds
- Looks at the economic and technological conditions that facilitated changes in communication

Written for students of journalism and media studies, *Trusting the News in the Digital Age* offers guidance on how to hone critical thinking skills needed to discern fact from fiction.

JULY 2021 176PP
978-1-119-71429-3 PB \$39.95 (Japan)
Journalism

コンピューティング

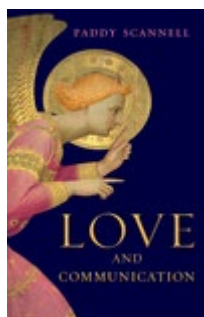
Love and Communication

PADDY SCANNELL

University of Central London

READERSHIP: Students and scholars of media and communication.

JULY 2021 160PP
978-1-5095-4752-4 CL \$59.95 (Japan)
978-1-5095-4753-1 PB \$19.95 (Japan)
Communication Studies



Facebook For Dummies

8th Edition

CAROLYN ABRAM, SAN FRANCISCO & AMY KARASAVAS

Be a new face on Facebook!

If you're new to the Facebook user community, don't be shy: you're joining around 2.7 billion users (roughly two-and-a-half Chinas) worldwide, so you'll want to make sure you're being as sociable as possible. And with more functionality and ways to say hello--like 3-D photos and Video Chat rooms--than ever before, Facebook For Dummies is the perfect, informative companion to get and new and inexperienced users acquainted with the main features of the platform and comfortable with sharing posts, pictures (or whatever else you find interesting) with friends, family, and the world beyond!



In a chatty, straightforward style, your friendly hosts, Carolyn Abram and Amy Karasavas--both former Facebook employees--help you get settled in with the basics, like setting up your profile and adding content, as well as protecting your privacy when you want to decide who can and can't see your posts. They then show you how to get involved as you add new friends, toggle your newsfeed, shape your timeline story, join groups, and more. They even let you in on ways to go pro and use Facebook for work, such as building a promo page and showing off your business to the world. Once you come out of your virtual shell, there'll be no stopping you!

- Build your profile and start adding friends
- Send private messages and instant notes
- Share your memories
- Tell stories about your day
- Set your privacy and curate your news feed

Don't be a wallflower: with this book you have the ideal icebreaker to get the party started so you can join in with all the fun!

JULY 2021 432PP
978-1-119-78210-0 PB \$24.99 (Japan)
INTERNET GENERAL

TikTok For Dummies

JESSE STAY, TAYLORSVILLE

Dance your way to internet stardom

TikTok took the world by storm, filling the need for a short-form video and giving creative folks a new way to connect with audience. This book serves as an introduction to those trying to figure out the hubbub around TikTok. Look inside for clear, concise explanation of how to add the app and establish an account, find your friends on the site, stay up-to-date with TikTok stars, and even create some video that might launch your new life as an Internet celebrity. Warm up your best dance moves!



Inside...

- * Adding the app and creating a profile
- * Getting to know the security issues
- * Following current TikTok users
- * Building your own following
- * Creating TikTok-ready videos

JULY 2021 UnknownPP
978-1-119-80341-6 PB \$18.99 (Japan)
Popular Culture

Mastering Microsoft Dynamics 365 Implementations

ERIC NEWELL

Confidently shepherd your organization's implementation of Microsoft Dynamics 365 to a successful conclusion

In *Mastering Microsoft Dynamics 365 Implementations*, accomplished executive, project manager, and author Eric Newell delivers a holistic, step-by-step reference to implementing Microsoft's cloud-based ERP and CRM business applications. You'll find the detailed and concrete instructions you need to take your implementation project all the way to the finish line, on-time, and on-budget.



You'll learn:

- The precise steps to take, in the correct order, to bring your Dynamics 365 implementation to life
- What to do before you begin the project, including identifying stakeholders and building your business case
- How to deal with a change management throughout the lifecycle of your project
- How to manage conference room pilots (CRPs) and what to expect during the sessions

Perfect for CIOs, technology VPs, CFOs, Operations leaders, application directors, business analysts, ERP/CRM specialists, and project managers, *Mastering Microsoft Dynamics 365 Implementations* is an indispensable and practical reference for guiding your real-world Dynamics 365 implementation from planning to completion.

JULY 2021 416PP
978-1-119-78932-1 PB \$50.00 (Japan)
Microsoft Other Software

AppleOne For Dummies

DWIGHT SPIVEY, MOBILE, UNITED STATES

A bundle of insight on a bundle of apps

The world of streaming services demands that you find music, movies, news, games, and storage from different providers. As they're known to do, Apple shakes up that system with Apple One, a bundle of six of their services that fill all those needs. Get to know the catalog in Apple Music, the streaming TV lineup on Apple TV+, keep up with the events of the day on Apple News+, get in shape using Apple Fitness+, play games on Apple Arcade, and keep your files safe on iCloud. Veteran Apple author Dwight Spivey shows how to get the most of these apps on your Apple device or other device.



Inside...

- * Choose the subscription level for your needs
- * Tune in to Apple Music
- * Find your favorite shows on Apple TV+
- * Stay informed on Apple News+
- * Get your game on with Apple Arcade
- * Shape up with Apple Fitness+
- * Store your files on iCloud
- * Access on various devices

JULY 2021 UnknownPP
978-1-119-80094-1 PB \$16.99 (Japan)
Office Productivity - Non-Microsoft (General & Suites)

Inside the World of Computing

Technologies, Uses, Challenges

JEAN-LOIC DELHAYE

Computers and the Internet are an undeniable and inextricable part of our daily lives. This book is for those who wish to better understand how this came to be. It explores the technological bases of computers, networks, software and data management, leading to the development of four “pillars” on which the essential applications that have a strong impact on individuals and society are based: embedded systems, Artificial Intelligence, the Internet, image processing and vision. We will travel to the heart of major application areas: robotics, virtual reality, health, mobility, energy, the factory of the future, not forgetting the major questions that this “digitization” can raise. This book is the author’s testimony after fifty years spent in environments that are very open to new technologies. It offers perspectives on the evolution of the digital world that we live in.



JULY 2021 256PP
978-1-78630-665-4 CL \$165.00 (Japan)
Computing Special Topics

コンピュータサイエンス

Kali Linux Penetration Testing Bible

GUS KHAWAJA

**A comprehensive
how-to pentest book, using the
popular Kali Linux tools**

Kali is a popular Linux distribution used by security professionals and is becoming an important tool for daily use and for certifications. Penetration testers need to master Kali's hundreds of tools for pentesting, digital forensics, and reverse engineering. *Kali Linux Penetration Testing Bible* is a hands-on guide for getting the most from Kali Linux for pentesting. This book is for working cybersecurity professionals in offensive, hands-on roles, including red teamers, white hat hackers, and ethical hackers. Defensive specialists will also find this book valuable, as they need to be familiar with the tools used by attackers.



This is the most comprehensive pentesting book on the market, covering every aspect of the art and science of penetration testing. It covers topics like building a modern Dockerized environment, the basics of bash language in Linux, finding vulnerabilities in different ways, identifying false positives, and practical penetration testing workflows. You'll also learn to automate penetration testing with Python and dive into advanced subjects like buffer overflow, privilege escalation, and beyond.

For established penetration testers, this book fills all the practical gaps, so you have one complete resource that will help you as your career progresses. For newcomers to the field, *Kali Linux Penetration Testing Bible* is your best guide to how ethical hacking really works.

JULY 2021 512PP
978-1-119-71908-3 PB \$40.00 (Japan)
Networking / Security

Data Analytics for Organisational Development

Unleashing the Potential of Your Data

UWE H. KAUFMANN & AMY B. C. TAN

**A practical guide for anyone who
aspires to become data analytics--savvy**

Data analytics has become central to the operation of most businesses, making it an increasingly necessary skill for every manager and for all functions across an organisation. *Data Analytics for Organisational Development: Unleashing the Potential of Your Data* introduces a methodical process for gathering, screening, transforming, and analysing the correct datasets to ensure that they are reliable tools for business decision-making. Written by a Six Sigma Master Black Belt and a Lean Six Sigma Black Belt, this accessible guide explains and illustrates the application of data analytics for organizational development and design, with particular focus on Customer and Strategy Analytics, Operations Analytics and Workforce Analytics.



Designed as both a handbook and workbook, *Data Analytics for Organisational Development* presents the application of data analytics for organizational design and development using case studies and practical examples. It aims to help build a bridge between data scientists, who have less exposure to actual business issues, and the "non-data scientists." With this guide, anyone can learn to perform data analytics tasks from translating a business question into a data science hypothesis to understanding the data science results and making the appropriate decisions. From data acquisition, cleaning, and transformation to analysis and decision making, this book covers it all. It also helps you avoid the pitfalls of unsound decision making, no matter where in the value chain you work.

Data Analytics for Organisational Development includes downloadable tools for learning enrichment, including spreadsheets, Power BI slides, datasets, R analysis steps and more. Regardless of your level in your organisation, this book will help you become savvy with data analytics, one of today's top business tools.

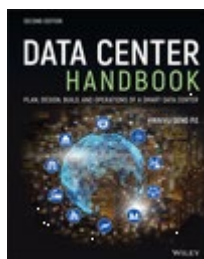
JULY 2021 240PP
978-1-119-75833-4 CL \$39.95 (Japan)
Business Data Processing

Data Center Handbook

Plan, Design, Build, and Operations of a Smart Data Center, 2nd Edition

EDITOR HWAIYU GENG

Written by 58 experts and reviewed by a seasoned technical advisory board, the *Data Center Handbook* is a thoroughly revised, one-stop resource that clearly explains the fundamentals, advanced technologies, and best practices used in planning, designing, building and operating a mission-critical, energy-efficient, sustainable data center. This handbook, in its second edition, covers anatomy, ecosystem and taxonomy of data centers that enable the Internet of Things and artificial intelligent ecosystems and encompass.



The *Data Center Handbook: Plan, Design, Build, and Operations of a Smart Data Center* belongs on the bookshelves of any professionals who work in, with, or around a data center.

JULY 2021 752PP
978-1-119-59750-6 CL \$171.50 (Japan)
DATABASE & DATA WAREHOUSING TECHNOLOGIES

Becoming a Data Head

How to Think, Speak, and Understand Data Science, Statistics, and Machine Learning

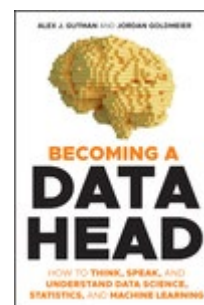
ALEX J. GUTMAN & JORDAN GOLDMEIER

You've heard the hype around data--now get the facts.

In *Becoming a Data Head: How to Think, Speak, and Understand Data Science, Statistics, and Machine Learning*, award-winning data scientists Alex Gutman and Jordan Goldmeier pull back the curtain on data science and give you the language and tools necessary to talk and think critically about it.

You'll learn how to:

- Think statistically and understand the role variation plays in your life and decision making
- Speak intelligently and ask the right questions about the statistics and results you encounter in the workplace
- Understand what's really going on with machine learning, text analytics, deep learning, and artificial intelligence
- Avoid common pitfalls when working with and interpreting data



Becoming a Data Head is a complete guide for data science in the workplace: covering everything from the personalities you'll work with to the math behind the algorithms. The authors have spent years in data trenches and sought to create a fun, approachable, and eminently readable book. Anyone can become a Data Head--an active participant in data science, statistics, and machine learning. Whether you're a business professional, engineer, executive, or aspiring data scientist, this book is for you.

JULY 2021 UnknownPP
978-1-119-74174-9 PB \$40.00 (Japan)
Data Mining & Knowledge Discovery

Big Data Analytics for Internet of Things

EDITOR TAUSIFA JAN SALEEM & EDITOR MOHAMMAD AHSAN CHISHTI

This book provides a thorough overview of all the aspects of data analytics in IoT systems including need for data analytics, computing platforms, big data analytical tools, data compression and storage, privacy and security etc. It includes discussions of ways to extract valuable insights from Big Data with the help of techniques like Regression, K-Nearest Neighbor, Decision tree, Support Vector Machine, Naïve Bayes, Clustering, Deep Neural Networks etc. The book explains the techniques that are suitable for digging out the best decisions from large amounts of IoT data to gain control of IoT devices. Moreover, the book offers novel designs for IoT systems covering applications like smart homes, smart healthcare, smart transportation, smart manufacturing, smart grid, smart agriculture, smart education, and smart government. The book discusses all aspects of IoT data analytics including presently available strategies as well as loopholes in those strategies and new solutions.



JULY 2021 400PP
978-1-119-74075-9 CL \$135.00 (Japan)
Data Mining & Knowledge Discovery

Machine Learning for Healthcare Applications

SACHI NANDAN MOHANTY, G. NALINIPRIYA, OM PRAKASH JENA & ACHYUTH SARKAR

When considering the idea of using machine learning in healthcare, it is a Herculean task to present the entire gamut of information in the field of intelligent systems. It is, therefore the objective of this book to keep the presentation narrow and intensive. This approach is distinct from others in that it presents detailed computer simulations for all models presented with explanations of the program code. It includes unique and distinctive chapters on disease diagnosis, telemedicine, medical imaging, smart health monitoring, social media healthcare, and machine learning for COVID-19. These chapters help develop a clear understanding of the working of an algorithm while strengthening logical thinking. In this environment, answering a single question may require accessing several data sources and calling on sophisticated analysis tools. While data integration is a dynamic research area in the database community, the specific needs of research have led to the development of numerous middleware systems that provide seamless data access in a result-driven environment. Since this book is intended to be useful to a wide audience, students, researchers and scientists from both academia and industry may all benefit from this material. It contains a comprehensive description of issues for healthcare data management and an overview of existing systems, making it appropriate for introductory and instructional purposes. Prerequisites are minimal; the readers are expected to have basic knowledge of machine learning. This book is divided into 22 real-time innovative chapters which provide a variety of application examples in different domains. These chapters illustrate why traditional approaches often fail to meet customers' needs. The presented approaches provide a comprehensive overview of current technology. Each of these chapters, which are written by the main inventors of the presented systems, specifies requirements and provides a description of both the chosen approach and its implementation. Because of the self-contained nature of these chapters, they may be read in any order. Each of the chapters use various technical terms which involve expertise in machine learning and computer science.



JULY 2021 416PP
978-1-119-79181-2 CL \$225.00 (Japan)
Artificial Intelligence

Microsoft Certified Azure Fundamentals Study Guide

Exam AZ-900

JIM BOYCE

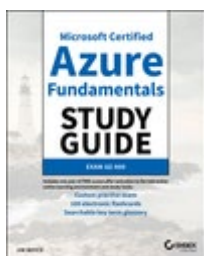
Quickly preps technical and non-technical readers to pass the Microsoft AZ-900 certification exam

Microsoft Certified Azure Fundamentals Study Guide: Exam AZ-900 is your complete resource for preparing for the AZ-900 exam. Microsoft Azure is a major component of Microsoft's cloud computing model, enabling organizations to host their applications and related services in Microsoft's data centers, eliminating the need for those organizations to purchase and manage their own computer hardware. In addition, serverless computing enables organizations to quickly and easily deploy data services without the need for servers, operating systems, and supporting systems. This book is targeted at anyone who is seeking AZ-900 certification or simply wants to understand the fundamentals of Microsoft Azure. Whatever your role in business or education, you will benefit from an understanding of Microsoft Azure fundamentals.

Readers will also get one year of FREE access to Sybex's superior online interactive learning environment and test bank, including hundreds of questions, a practice exam, electronic flashcards, and a glossary of key terms.

Growth in the cloud market continues to be very strong, and Microsoft is poised to see rapid and sustained growth in its cloud share. Written by a long-time Microsoft insider who helps customers move their workloads to and manage them in Azure on a daily basis, this book will help you break into the growing Azure space to take advantage of cloud technologies.

JULY 2021 256PP
978-1-119-77092-3 PB \$50.00 (Japan)
Grid & Cloud Computing



Multi-Processor System-on-Chip 1

Architectures

LILIANA ANDRADE & FREDERIC ROUSSEAU

A Multi-Processor System-on-Chip (MPSoC) is the key component for complex applications. These applications put huge pressure on memory, communication devices and computing units. This book, presented in two volumes - Architectures and Applications - therefore celebrates the 20th anniversary of MPSoC, an interdisciplinary forum that focuses on multi-core and multi-processor hardware and software systems. It is this interdisciplinarity which has led to MPSoC bringing together experts in these fields from around the world, over the last two decades. *Multi-Processor System-on-Chip 1* covers the key components of MPSoC: processors, memory, interconnect and interfaces. It describes advance features of these components and technologies to build efficient MPSoC architectures. All the main components are detailed: use of memory and their technology, communication support and consistency, and specific processor architectures for general purposes or for dedicated applications.



JULY 2021 320PP
978-1-78945-021-7 CL \$165.00 (Japan)
Computer Architecture

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 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.

JULY 2021 352PP
978-1-119-80546-5 PB \$30.00 (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.

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.

JULY 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 UnknownPP
978-1-119-77562-1 CL \$225.00 (Japan)
Computer Security & Cryptography

Dental Trauma at a Glance

AWS ALANI & GARETH CALVERT

Written in a short and concise manner, *Dental Trauma at a Glance* is a practical reference that contains essential information on the safe and effective clinical management of acute adult dental trauma injuries.



The book addresses the numerous types of adult dental injuries and contains guidance on how the correct identification and treatment of these injuries can be time sensitive. Filled with helpful illustrations and photographs, the text is formatted in a step-by-step manner for the reader to arrive at the correct diagnosis and the most up-to-date management for safe and optimum patient care.

- Provides the most contemporary must-have information for the clinical management of acute adult dental trauma
- Its format is quick and easy to use
- Offers a highly illustrated text with quality clinical photographs to aid with learning and revision
- Provides an understanding of traumatic adult dental injuries, their healing and an insight into their longer-term sequelae

A new addition to the popular *at a Glance* series, *Dental Trauma at a Glance* is an indispensable hands-on guide for dental students and general dental practitioners.

SERIES: AT A GLANCE (DENTISTRY)

JULY 2021 96PP
978-1-119-56283-2 PB \$55.00 (Japan)
Dental Traumatology

経済学

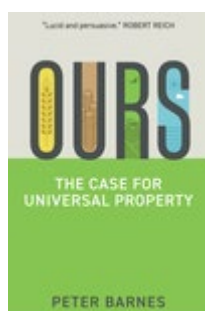
Ours

The Case for Universal Property

PETER BARNES

READERSHIP: General readers interested in political economy, the climate crisis, inequality and public policy.

JULY 2021 140PP
978-1-5095-4482-0 CL \$49.95 (Japan)
978-1-5095-4483-7 PB \$14.95 (Japan)
Political Economics



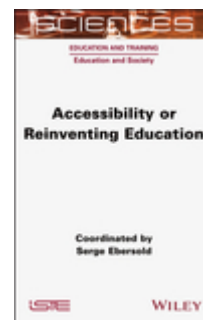
教育

Accessibility or Reinventing Education

COMPILED BY SERGE EBERSOLD

The accessibility requirement of educational policies is a reinvention of schools beyond the education of students with disabilities.

Accessibility or Reinventing Education studies the changes that have redefined the roles and missions of schools, by asking them to consider the obstacles to learning imposed on students -- regardless of their particular characteristics -- in order to make themselves accessible to the greatest number. This book examines the ways in which school stakeholders are addressing the need for accessibility to bring its principles to life on a daily basis. Particular attention is given to the strategies developed by teachers for creating accessible school environments, the conditions for mobilizing digital technologies, and the redefinition of relationships between teachers and their specialist counterparts. Finally, the new figures of "ineducability", established because of the accessibility imperative, are considered, and a grammar of accessibility is proposed, setting the stage for accessibility in school environments and the implementation of inclusive policies.



JULY 2021 256PP
978-1-78945-011-8 CL \$165.00 (Japan)
General & Introductory Education

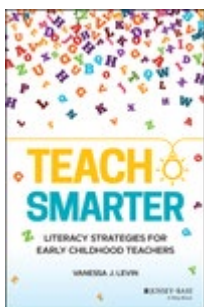
Teach Smarter

Literacy Strategies for Early Childhood Teachers

VANESSA LEVIN

Discover new, practical methods for teaching literacy skills in your early childhood classroom.

Has teaching early literacy skills become a stumbling block to getting your preschool students kindergarten ready? Break out of the tired "letter of the week" routine and learn how to transform your lessons with fun and effective techniques. *Teach Smarter: Literacy Strategies for Early Childhood Teachers* will equip teachers to infuse every aspect of their teaching with exciting hands-on literacy teaching methods that engage students and help them build authentic connections with books, so that 100% of their students will have a strong literacy foundation and will be fully prepared for success in kindergarten and beyond.



Respected author Vanessa Levin, veteran early childhood educator and author of the "Pre-K Pages" blog, breaks down the research and translates it into realistic, actionable steps you can take to improve your teaching.

- Features specific examples of teaching techniques and activities that engage students in hands-on, experiential learning during circle time, centers, and small groups.
- Offers a simple, four-step system for teaching literacy skills, based on the foundational principles of early literacy teaching
- Demonstrates how to build your confidence in your ability to get 100% of your students ready for kindergarten, long before the end of the school year

Understand the problems with traditional literacy teaching and identify gaps in your current teaching practice with this valuable resource.

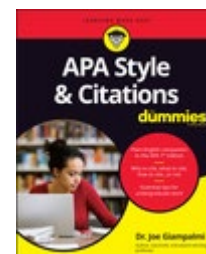
JULY 2021 176PP
978-1-119-69889-0 PB \$27.95 (Japan)
General & Introductory Education

APA Style & Citations For Dummies

JOE GIAMPALMI, CLEARWATER BEACH

Write right in for scholarly success

While world-renowned for the precision and clarity it lends to scholarly writing, keeping track of APA style's exacting standards can be demanding (at times even excruciating!) for initiates and seasoned writers alike. Created and governed by the American Psychological Association, it provides a universal style for formatting, citations, and footnotes in psychological research, behavioral and social science journals, and beyond. Getting up to speed is tough stuff, but once you've got it, your work will have that easy-to-follow scholarly authority that will get high marks from your professors and peers alike.



Your friendly, frustration-free guide for this adventure in simplifying APA style is Joe Giampalmi, who has taught more than 100 APA-style composition courses to college students. He takes the pain of following APA style away by breaking it down to its essential elements and focusing on the important stuff students encounter most. You'll work through specific, real-life examples of using APA style for psychology, criminology, business, and nursing papers. In addition to demystifying the intricacies of formatting and citation, *APA Style & Citations For Dummies* has got you covered in all matters of grammar and punctuation--as well as guidance on how APA style can help you negotiate issues around the ethics of authorship and the importance of word choice in reducing bias.

- Develop conciseness and clarity
- Pay attention to flow, structure, and logic in your writing
- Know when, why, how, and what to cite
- Keep your writing ethically conscious and bias-free

Writing in APA style is something that almost all students will need to do at some point: *APA Style & Citations For Dummies* is a must-have desk reference to know how to win the approval of your professors--and earn the marks you need for success!

JULY 2021 UnknownPP
978-1-119-71644-0 PB \$24.99 (Japan)
Writing

The Blue Book of Grammar and Punctuation

An Easy-to-Use Guide with Clear Rules, Real-World Examples, and Reproducible Quizzes, 12th Edition

LESTER KAUFMAN, MILL VALLEY, UNITED STATES & JANE STRAUS

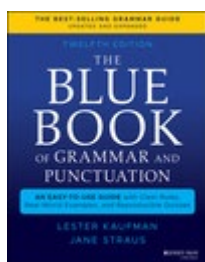
The best-selling workbook and grammar guide, revised and updated!

Hailed as one of the best books around for teaching grammar, *The Blue Book of Grammar and Punctuation* includes easy-to-understand rules, abundant examples, dozens of reproducible exercises, and pre- and post-tests to help teach grammar to middle and high schoolers, college students, ESL students, homeschoolers, and more. This concise, entertaining workbook makes learning English grammar and usage simple and fun. This updated Twelfth Edition reflects the latest updates to English usage and grammar and features a two-color design and lay-flat binding for easy photocopying.

- Clear and concise, with easy-to-follow explanations, offering "just the facts" on English grammar, punctuation, and usage
- Fully updated to reflect the latest rules, along with quizzes and pre- and post-tests to help teach grammar
- Ideal for students from seventh grade through adulthood in the US and abroad

For anyone who wants to understand the major rules and subtle guidelines of English grammar and usage, *The Blue Book of Grammar and Punctuation* offers comprehensive, straightforward instruction.

JULY 2021 272PP
978-1-119-65302-8 PB \$16.95 (Japan)
LITERACY & READING

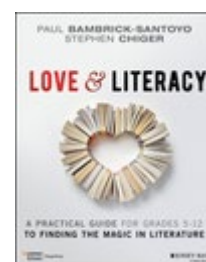


Love & Literacy

A Practical Guide to Finding the Magic in Literature (Grades 5-12)

PAUL BAMBRICK-SANTOYO, MONTCLAIR & STEPHEN CHIGER

When our students enter middle and high school, the saying goes that they stop learning to read and start reading to learn. Then why is literacy still a struggle for so many of our students? The reality is that elementary school isn't designed to prepare students for Othello and Song of Solomon: so what do we do?



Love and Literacy steps into the classrooms of extraordinary teachers who have guided students to the highest levels of literacy. There is magic in their teaching, but that magic is replicable. It starts with a simple premise: kids fall in love with texts when they understand them, and that understanding comes from the right knowledge and/or the right strategy at the right time.

Love and Literacy dissects the moves of successful teachers and schools and leaves you with the tools to make these your own:

- Research-based best practices in facilitating discourse, building curriculum, guiding student comprehension and analysis, creating a class culture where literacy thrives, and more
- Video clips of middle and high school teachers implementing these practices
- An online, print-ready Reading and Writing Handbook that places every tool at your fingertips to implement effectively
- Discussion questions for your own professional learning or book study group

Great reading is more than just liking books: it's having the knowledge, skill, and desire to experience any text in all its fullness. *Love and Literacy* guides you to create environments where students can build the will and wherewithal to truly fall in love with literacy.

JULY 2021 352PP
978-1-119-75165-6 PB \$29.95 (Japan)
Literacy & Reading

電気電子工学

Fundamentals of Microelectronics

3rd Edition

BEHZAD RAZAVI

AT&T Bell Laboratories

Fundamentals of Microelectronics, 3rd Edition, is a comprehensive introduction to the design and analysis of electrical circuits, enabling students to develop the practical skills and engineering intuition necessary to succeed in their future careers. Through an innovative "analysis by inspection" framework, students learn to deconstruct complex problems into familiar components and reach solutions using basic principles. A step-by-step synthesis approach to microelectronics demonstrates the role of each device in a circuit while helping students build "design-oriented" mindsets.

The revised third edition covers basic semiconductor physics, diode models and circuits, bipolar transistors and amplifiers, oscillators, frequency response, and more. In-depth chapters feature illustrative examples and numerous problems of varying levels of difficulty, including design problems that challenge students to select the bias and component values to satisfy particular requirements. The text contains a wealth of pedagogical tools, such as application sidebars, chapter summaries, self-tests with answers, and Multisim and SPICE software simulation problems. Now available in enhanced ePub format, *Fundamentals of Microelectronics* is ideal for single- and two-semester courses in the subject.

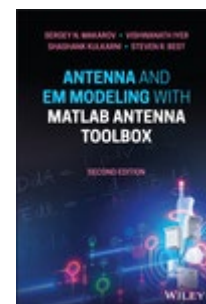
JUNE 2021 960PP
978-1-119-69514-1 PB \$120.59 (Japan)
CIRCUIT THEORY & DESIGN

**Antenna and EM Modeling with MATLAB
Antenna Toolbox**

2nd Edition

SERGEY N. MAKAROV, VISHWANATH IYER, SHASHANK
KULKARNI & STEVEN R. BESTAir Force Research Laboratory, Antenna Technology Branch,
Hanscom AFB

This book is based on and describes the operation of the MATLAB Antenna Toolbox modeling tool, which is accessible to virtually every engineering student in the U.S. and abroad. It begins with the simple yet common dipole antenna as a means of illustrating the need to impedance match and to reduce parasitic losses. The book also reviews Maxwell's equations and ties them to antenna analysis via the vector potential. Later chapters introduce the simple loop antenna and its duality to the dipole, as well as a number of practical embodiments using stubs and feed point location. The book concludes with a chapter on antennas that utilize travelling waves along a line. These include long-line antennas, helical antennas, and spiral antennas.

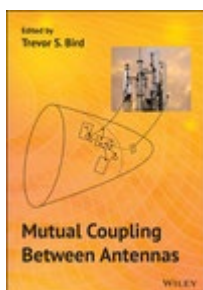


JULY 2021 320PP
978-1-119-69369-7 CL \$135.00 (Japan)
ANTENNAS & PROPAGATION

Mutual Coupling Between Antennas

EDITOR TREVOR S. BIRD

The aim of this book to provide an up-to-date description of the physical effects of mutual coupling for a variety of antennas and for techniques for analysing and assessing its effects. Practical aspects of mutual coupling will be presented as well as applications to show where the performance is impacted both positively and negatively by taking it into account. Mutual coupling is an important aspect of antenna array design that it is often neglected due to complexity or lack of computing power. It is a function of distance between the antennas, and depends on the near fields of the individual antenna elements, their proximity and their polarization. It can be analysed rigorously by a wide variety of methods from direct computer software using discrete methods, to integral equations and Greens function methods as well as approximate asymptotic methods. The book is directed at technical specialists, researchers and students working on problems connected with mutual interaction between antennas. A background in basic electromagnetics and antennas concepts is assumed.



JULY 2021 480PP
978-1-119-56498-0 CL \$135.00 (Japan)
Antennas & Propagation

Design and Analysis of Wireless Communication Signals

A Laboratory-based Approach

HUSEYIN ARSLAN

University of South Florida

This book describes wireless communication systems and concepts from modeling, simulation, testing, and wireless systems analyzing (along with wireless circuits) using modern instrumentation and computer aided design software. Readers learn how to model, simulate, test, and analyze wireless systems (along with wireless circuits) using modern instrumentation and computer aided design software. The book is structured in such a way that it can be used in support of various wireless courses at all levels and can serve as a reference for research projects for both undergraduate and graduate students. This book complements traditional theoretical textbooks by also introducing some practical aspects.



JULY 2021 464PP
978-1-119-76441-0 CL \$135.00 (Japan)
Mobile & Wireless Communications

Intelligent Network Management and Control

Intelligent Security, Multi-criteria Optimization, Cloud Computing, Internet of Vehicles, Intelligent Radio

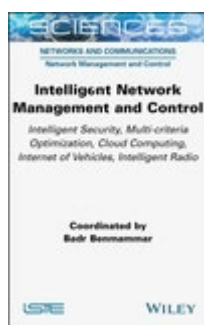
BADR BENMAMMAR

Bordeaux 1 University, France

The management and control of networks can no longer be envisaged without the introduction of artificial intelligence at all stages.

Intelligent Network Management and Control deals with topical issues related mainly to intelligent security of computer networks, deployment of security services in SDN (software-defined networking), optimization of networks using artificial intelligence techniques and multi-criteria optimization methods for selecting networks in a heterogeneous environment.

This book also focuses on selecting cloud computing services, intelligent unloading of calculations in the context of mobile cloud computing, intelligent resource management in a smart grid-cloud system for better energy efficiency, new architectures for the Internet of Vehicles (IoV), the application of artificial intelligence in cognitive radio networks and intelligent radio input to meet the on-road communication needs of autonomous vehicles.



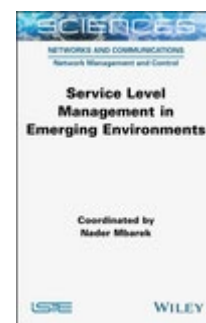
JULY 2021 304PP
978-1-78945-008-8 CL \$165.00 (Japan)
Communication Technology - Networks

Service Level Management in Emerging Environments

NADER MBAREK

Networks are now embedded in daily life thanks to smaller, faster, inexpensive components that are more powerful and increasingly connected. Parallel to this quantitative explosion of communication networks, technology has become more complex. This development comes with challenges related to management and control, and it has become necessary to manage the service level demands of the client to which the service provider

commits. Different approaches to managing one or more service level components in different emerging environments are explored, such as: the Internet of Things, the Cloud, smart grids, e-health, mesh networking, D2D (Device to Device), smart cities and even green networking. This book therefore allows for a better understanding of the important challenges and issues relating to Quality of Service (QoS) management, security and mobility in these types of environment.



JULY 2021 272PP
978-1-78945-002-6 CL \$165.00 (Japan)
Communication Technology - Networks

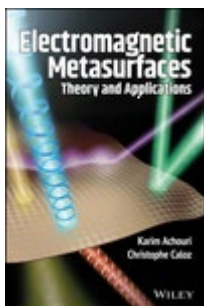
Electromagnetic Metasurfaces

Theory and Applications

KARIM ACHOURI & CHRISTOPHE CALOZ

This book introduces fundamental principles as well as applications of metasurfaces, i.e. electromagnetically thin structures manipulating EM wave propagation. The authors describe the precursors and history of metasurfaces before moving on to explore the physical insights that can be gained from the material parameters of the metasurface.

They also present how to compute the fields scattered by a metasurface, with known material parameters, being illuminated by an arbitrary incident field, as well as how to realize a practical metasurface and relate its material parameters to physical structures. The book finishes with a discussion of the future of the field.



SERIES: WILEY – IEEE

JULY 2021 224PP
978-1-119-52516-5 CL \$120.00 (Japan)
Electromagnetic Theory

Electromagnetic Waves 1

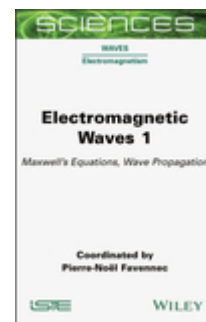
Maxwell's Equations, Wave Propagation

PIERRE-NOËL FAVENNEC

Electromagnetic Waves 1 examines Maxwell's equations and wave propagation. It presents the scientific bases necessary for any application using electromagnetic fields, and analyzes Maxwell's equations, their meaning and their resolution for various situations and material environments.

These equations are essential for understanding electromagnetism and its derived fields, such as radioelectricity, photonics, geolocation, measurement, telecommunications, medical imaging and radio astronomy.

This book also deals with the propagation of electromagnetic, radio and optical waves, and analyzes the complex factors that must be taken into account in order to understand the problems of propagation in a free and confined space. *Electromagnetic Waves 1* is a collaborative work, completed only with the invaluable contributions of Ibrahima Sakho, Hervé Sizun and JeanPierre Blot, not to mention the editor, Pierre-Noël Favennec. Aimed at students and engineers, this book provides essential theoretical support for the design and deployment of wireless radio and optical communication systems.



JULY 2021 304PP
978-1-78945-006-4 CL \$165.00 (Japan)
Electromagnetic Compatibility

Electromagnetic Waves 2

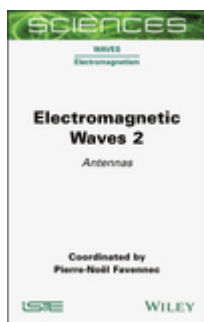
Antennas

PIERRE-NOËL FAVENNEC

Electromagnetic Waves 2 examines antennas in the field of radio waves. It analyzes the conditions of use and the parameters that are necessary in order to create an effective antenna.

This book presents antennas' definitions, regulations and fundamental equations, and describes the various forms of antennas that can be used in radio: horns, waveguides, coaxial cables, printed and miniature antennas. It presents the characterization methods and the link budgets as well as the digital methods that make the fine calculation of radio antennas possible.

Electromagnetic Waves 2 is a collaborative work, completed only with the invaluable contributions of Ibrahima Sakho, Hervé Sizun and JeanPierre Blot, not to mention the editor, Pierre-Noël Favennec. Aimed at students and engineers, this book provides essential theoretical support for the design and deployment of wireless radio and optical communication systems.



JULY 2021 272PP
978-1-78945-007-1 CL \$165.00 (Japan)
Electromagnetic Compatibility

Introduction to Fuzzy Logic

JAMES K. PECKOL

University of Washington

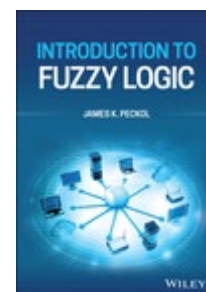
Learn more about the history, foundations, and applications of fuzzy logic in this comprehensive resource by an academic leader

Introduction to Fuzzy Logic delivers a high-level but accessible introduction to the rapidly growing and evolving field of fuzzy logic and its applications.

Distinguished engineer, academic, and author James K. Peckol covers a wide variety of practical topics, including the differences between crisp and fuzzy logic, the people and professions who find fuzzy logic useful, and the advantages of using fuzzy logic.

While the book assumes a solid foundation in embedded systems, including basic logic design, and C/C++ programming, it is written in a practical and easy-to-read style that engages the reader and assists in learning and retention. The author includes introductions of threshold and perceptron logic to further enhance the applicability of the material contained within.

Perfect for mid-level and upper-level undergraduate and graduate students in electrical, mechanical, and computer engineering courses, *Introduction to Fuzzy Logic* covers topics included in many artificial intelligence, computational intelligence, and soft computing courses. Math students and professionals in a wide variety of fields will also significantly benefit from the material covered in this book.



JULY 2021 320PP
978-1-119-77261-3 CL \$125.00 (Japan)
Fuzzy Systems

Multi-Processor System-on-Chip 2

Applications

LILIANA ANDRADE & FREDERIC ROUSSEAU

A Multi-Processor System-on-Chip (MPSoC) is the key component for complex applications. These applications put huge pressure on memory, communication devices and computing units. This book, presented in two volumes - Architectures and Applications - therefore celebrates the 20th anniversary of MPSoC, an interdisciplinary forum that focuses on multi-core and multi-processor hardware and software systems. It is this interdisciplinarity which has led to MPSoC bringing together experts in these fields from around the world, over the last two decades.

Multi-Processor System-on-Chip 2 covers application-specific MPSoC design, including compilers and architecture exploration. This second volume describes optimization methods, tools to optimize and port specific applications on MPSoC architectures. Details on compilation, power consumption and wireless communication are also presented, as well as examples of modeling frameworks and CAD tools. Explanations of specific platforms for automotive and real-time computing are also included.



JULY 2021 272PP
978-1-78945-022-4 CL \$165.00 (Japan)
Systems Engineering & Management

Introduction to the Physics and Techniques of Remote Sensing

3rd Edition

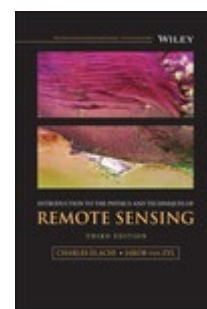
CHARLES ELACHI & JAKOB J. VAN ZYL

California Institute of Technology; Caltech/Jet Propulsion Laboratory

Discover cutting edge theory and applications of modern remote sensing in geology, oceanography, atmospheric science, ionospheric studies, and more

The thoroughly revised third edition of the *Introduction to the Physics and Techniques of Remote Sensing* delivers a comprehensive update to the authoritative textbook, offering readers new sections on radar interferometry, radar stereo, and planetary radar. It explores new techniques in imaging spectroscopy and large optics used in Earth orbiting, planetary, and astrophysics missions. It also describes remote sensing instruments on, as well as data acquired with, the most recent Earth and space missions.

Readers will benefit from the brand new and up-to-date concept examples and full-color photography, 50% of which is new to the series. You'll learn about the basic physics of wave/matter interactions, techniques of remote sensing across the electromagnetic spectrum (from ultraviolet to microwave), and the concepts behind the remote sensing techniques used today and those planned for the future.



Perfect for senior undergraduate and graduate students in the field of remote sensing instrument development, data analysis, and data utilization, *Introduction to the Physics and Techniques of Remote Sensing* will also earn a place in the libraries of students, faculty, researchers, engineers, and practitioners in fields like aerospace, electrical engineering, and astronomy.

SERIES: WILEY SERIES IN REMOTE SENSING AND IMAGE PROCESSING

JULY 2021 560PP
978-1-119-52301-7 CL \$150.00 (Japan)
REMOTE SENSING

Introduction To Modern Planar Transmission Lines

Physical, Analytical, and Circuit Models Approach

ANAND VERMA

Provides a comprehensive discussion of planar transmission lines and their applications, focusing on physical understanding, analytical approach, and circuit models

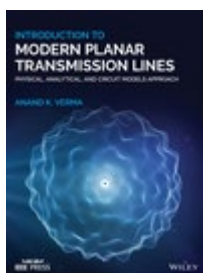
Planar transmission lines form the core of the modern high-frequency communication, computer, and other related technology. This advanced text gives a complete overview of the technology and acts as a comprehensive tool for radio frequency (RF) engineers that reflects a linear discussion of the subject from fundamentals to more complex arguments.

Introduction to Modern Planar Transmission Lines: Physical, Analytical, and Circuit Models Approach begins with a discussion of waves on transmission lines and waves in material medium, including a large number of illustrative examples from published results. After explaining the electrical properties of dielectric media, the book moves on to the details of various transmission lines including waveguide, microstrip line, co-planar waveguide, strip line, slot line, and coupled transmission lines. A number of special and advanced topics are discussed in later chapters, such as fabrication of planar transmission lines, static variational methods for planar transmission lines, multilayer planar transmission lines, spectral domain analysis, resonators, periodic lines and surfaces, and metamaterial realization and circuit models.

Introduction to Modern Planar Transmission Lines is an ideal book for senior undergraduate and graduate students of the subject. It will also appeal to new researchers with the inter-disciplinary background, as well as to engineers and professionals in industries utilizing RF/microwave technologies.

SERIES: WILEY – IEEE

JULY 2021 UnknownPP
978-1-119-63227-6 CL \$150.00 (Japan)
RF / Microwave Theory & Techniques



Microwave and Wireless Synthesizers

Theory and Design, 2nd Edition

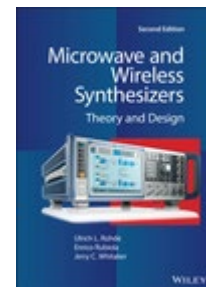
ULRICH L. ROHDE, ENRICO RUBIOLA & JERRY WHITAKER

Synergy Microwave Corp.

The new edition of the leading resource on designing digital frequency synthesizers from microwave and wireless applications, fully updated to reflect the most modern integrated circuits and semiconductors

Microwave and Wireless Synthesizers: Theory and Design, Second Edition, remains the standard text on the subject by providing complete and up-to-date coverage of both practical and theoretical aspects of modern frequency synthesizers and their components. Featuring contributions from leading experts in the field, this classic volume describes loop fundamentals, noise and spurious responses, special loops, loop components, multiloop synthesizers, and more. Practical synthesizer examples illustrate the design of a high-performance hybrid synthesizer and performance measurement techniques—offering readers clear instruction on the various design steps and design rules. The second edition includes extensively revised content throughout, including a modern approach to dealing with the noise and spurious response of loops and updated material on digital signal processing and architectures. Reflecting today's technology, new practical and validated examples cover a combination of analog and digital synthesizers and hybrid systems. Enhanced and expanded chapters discuss implementations of direct digital synthesis (DDS) architectures, the voltage-controlled oscillator (VCO), crystal and other high-Q based oscillators, arbitrary waveform generation, vector signal generation, and other current tools and techniques.

Containing numerous designs of proven circuits and more than 500 relevant citations from scientific journal and papers, *Microwave and Wireless Synthesizers: Theory and Design, Second Edition*, is a must-have reference for engineers working in the field of radio communication, and the perfect textbook for advanced electrical engineering students.



JULY 2021 UnknownPP
978-1-119-66600-4 CL \$150.00 (Japan)
RF / MICROWAVE THEORY & TECHNIQUES

Microwave Circuit Design Using Linear and Nonlinear Techniques

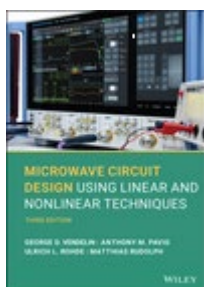
3rd Edition

GEORGE D. VENDELIN, ANTHONY M. PAVIO, ULRICH L. ROHDE
& MATTHIAS RUDOLPH

Vendelin Engineering; Arizona; Synergy Microwave Corp.

Four leaders in the field of microwave circuit design share their newest insights into the latest aspects of the technology

The third edition of *Microwave Circuit Design Using Linear and Nonlinear Techniques* delivers an insightful and complete analysis of microwave circuit design, from their intrinsic and circuit properties to circuit design techniques for maximizing performance in communication and radar systems. This new edition retains what remains relevant from previous editions of this celebrated book and adds brand-new content on CMOS technology, GaN, SiC, frequency range, and feedback power amplifiers in the millimeter range region. The third edition contains over 200 pages of new material.



The distinguished engineers, academics, and authors emphasize the commercial applications in telecommunications and cover all aspects of transistor technology. Software tools for design and microwave circuits are included as an accompaniment to the book. In addition to information about small and large-signal amplifier design and power amplifier design, readers will benefit from the book's treatment of a wide variety of topics.

Perfect for microwave integrated circuit designers, the third edition of *Microwave Circuit Design Using Linear and Nonlinear Techniques* also has a place on the bookshelves of electrical engineering researchers and graduate students. It's comprehensive take on all aspects of transistors by world-renowned experts in the field places this book at the vanguard of microwave circuit design research.

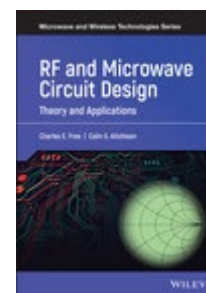
JULY 2021 1200PP
978-1-118-44975-2 CL \$199.00 (Japan)
RF / MICROWAVE THEORY & TECHNIQUES

RF and Microwave Circuit Design

Theory and Applications

CHARLES E. FREE & COLIN S. AITCHISON

This textbook covers a typical modern syllabus in radio frequency or microwave design at final year undergraduate or first year postgraduate level. The content has been chosen to include all of the basic topics necessary to give a rigorous introduction to high-frequency technology. Both the content and presentation reflect the considerable experience which both authors have in teaching and research at university level. The material is presented from first principles, and relies only on students having a reasonable grasp of basic electronic principles. One of the key features of the book is the inclusion of an extensive set of worked examples to guide the student reader who has no prior knowledge of the subject.



SERIES: MICROWAVE AND WIRELESS TECHNOLOGIES SERIES

JULY 2021 400PP
978-1-119-11463-5 CL \$95.00 (Japan)
RF / Microwave Theory & Techniques

エネルギー

Strategic Engineering

JACQUES ARCADE

In the face of increasing complexity, uncertainty and difficulty in the design and implementation of reforms, companies, organizations and institutions must strive to capitalize on the prevailing disarray by acting wisely in overcoming it.

Strategic engineering is part of an integrative, tool-based approach, inspired by the life sciences and “creative recursion”. This book is structured into three parts, which correspond to the three main phases of the strategic engineering approach: observe and discern; judge and arbitrate; act and intervene. Strategic Engineering has wide appeal, relevant to senior leaders, decisionmakers, managers and practitioners within businesses, government and local authorities. It is also intended for those who wish to develop their capability in anticipatory or transformative management within economic, sociopolitical and strategic contexts.



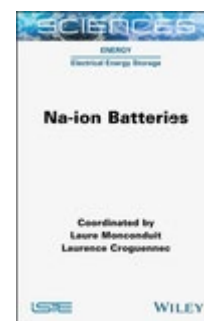
JULY 2021 320PP
978-1-78630-642-5 CL \$165.00 (Japan)
Electrical Engineering Special Topics

Na-ion Batteries

LAURE MONCONDUIT & LAURENCE CROGUENNEC

This book covers both the fundamental and applied aspects of advanced Na-ion batteries (NIB) which have proven to be a potential challenger to Li-ion batteries. Both the chemistry and design of positive and negative electrode materials are examined. In NIB, the electrolyte is also a crucial part of the batteries and the recent research, showing a possible alternative to classical electrolytes - with the development of ionic liquid-based electrolytes - is also explored.

Cycling performance in NIB is also strongly associated with the quality of the electrode-electrolyte interface, where electrolyte degradation takes place; thus, Na-ion Batteries details the recent achievements in furthering knowledge of this interface. Finally, as the ultimate goal is commercialization of this new electrical storage technology, the last chapters are dedicated to the industrial point of view, given by two startup companies, who developed two different NIB chemistries for complementary applications and markets.



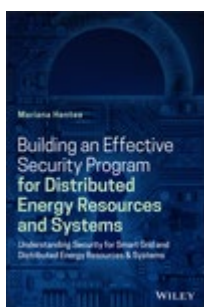
JULY 2021 384PP
978-1-78945-013-2 CL \$165.00 (Japan)
General Energy

Building an Effective Security Program for Distributed Energy Resources and Systems

MARIANA HENTEA

Build a critical and effective security program for DERs

This publication educates engineers on the design, implementation, and maintenance of a security program for distributed energy resources (DERs), smart grid, and industrial control systems. *Building an Effective Security Program for Distributed Energy Resources and Systems* provides a unified approach to establishing a critical security program for DER systems and Smart Grid applications. The methodology provided integrates systems security engineering principles, techniques, standards, and best practices.



The publication guides security professionals in learning the specific requirements of industrial control systems and real-time constrained applications. It also outlines the functions of the security program as well as the scope and differences between traditional IT system security requirements and those required for industrial control systems such as SCADA systems. This book:

- Addresses the cybersecurity needs for DERs and power grid as critical infrastructure
- Explores the assessment and management of security risks and ethical concerns
- Offers a full array of resources-- cybersecurity concepts, frameworks, and emerging trends.

Security Professionals and Engineers can use *Building an Effective Security Program* as a reliable resource that's dedicated to the essential topic of security for distributed energy resources and power grid. They will find standards, guidelines, and recommendations from standard organizations, such as ISO, IEC, NIST, IEEE, ENISA, ISA, ISACA, and ISF, conveniently included for reference within chapters.

JULY 2021 608PP
978-1-118-94904-7 CL \$145.00 (Japan)
Power Technology & Power Engineering

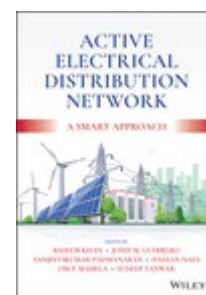
Active Electrical Distribution Network

A Smart Approach

EDITOR BASEEM KHAN, EDITOR JOSEP M. GUERRERO, EDITOR
SANJEEVIKUMAR PADMANABAN, EDITOR HASSAN HAES
ALHELOU, EDITOR OM P. MAHELA & EDITOR SUDEEP TANWAR

Universitat Politecnica de Catalunya

This book is about how to guide and address the major issues inside the most overlooked sector of the electrical Industry; Electrical Distribution. Various issues are discussed in detail with respect to the present smart grid scenario. It differs from other published books, as it includes a detailed framework to address generally all the major issues in the active electrical distribution sector with renewable energy integration.



JULY 2021 592PP
978-1-119-59951-7 CL \$145.00 (Japan)
Electric Power Systems

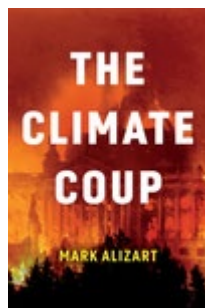
環境科学

The Climate Coup

MARK ALIZART

READERSHIP: Anyone interested in climate change, the environmental crisis and the deteriorating state of our planet; readers with an interest in radical politics.

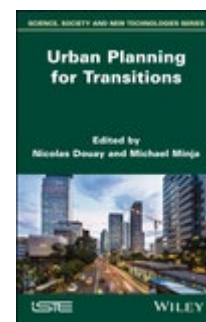
JULY 2021 120PP
978-1-5095-4613-8 CL \$45.00 (Japan)
978-1-5095-4614-5 PB \$12.95 (Japan)
Environmental Economics & Politics

**Urban Planning for Transitions**

EDITOR NICOLAS DOUAY & EDITOR MICHAEL MINJA

Today, as cities undergo rapid and dynamic transformations, riddled with uncertainties about the future, the roles of urban planning and urban planners lie in one of these new crossroad moments. Climate change, urban migration, social inclusion, health emergencies and financial and economic crises have elevated urbanization to newer heights of complexity that can only be tackled by integrating a multitude of scenarios, strategies and discourses, in order to create an urban future that is resilient and sustainable.

Urban planners have come up with transition proposals and concepts that they hope will be able to respond to cities' challenges and ultimately allow them to adapt and make the transition into more robust urban areas. This book presents and discusses various urban transition strategies, action plans and programs that have been proposed or even conducted in different countries all over the world. Different countries require different strategies, but they all have the same goal in mind, each of them trying to address urban complexities and cope with the rapid pace at which the world is evolving.



JULY 2021 224PP
978-1-78630-675-3 CL \$165.00 (Japan)
Environmental Science

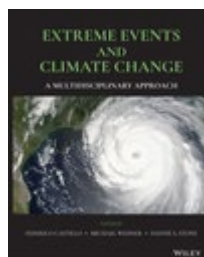
地球科学

Extreme Events and Climate Change**A Multidisciplinary Approach**

EDITOR FEDERICO CASTILLO, EDITOR MICHAEL WEHNER &
EDITOR DAITHI STONE

An authoritative volume focusing on multidisciplinary methods to estimate the impacts of climate-related extreme events to society

As the intensity and frequency of extreme events related to climate change continue to increase, there is an urgent need for clear and cohesive analysis that integrates both climatological and socioeconomic impacts. *Extreme Events and Climate Change* provides a timely, multidisciplinary examination of the impacts of extreme weather under a warming climate. Offering wide-ranging coverage of the methods and analysis that relate changes in extreme events to their societal impacts, this volume helps readers understand and overcome the methodological challenges associated with extreme event analysis.



Contributions from leading experts from across disciplines describe the theoretical requirements for analyzing the complex interactions between meteorological phenomena and the resulting outcomes, discuss new approaches for analyzing the impacts of extreme events on society, and illustrate how empirical and theoretical concepts merge to form a unified plan that enables informed decision making. Throughout the text, innovative frameworks allow readers to find solutions to the modeling and statistical challenges encountered when analyzing extreme events.

Extreme Events and Climate Change: A Multidisciplinary Approach is an indispensable volume for students, researchers, scientists, and practitioners in fields such as hazard and risk analysis, climate change, atmospheric and ocean sciences, hydrology, geography, agricultural science, and environmental and space science.

JULY 2021 240PP
978-1-119-41362-2 CL \$199.95 (Japan)
Geology & Geophysics

Investigating Fossils**A History of Palaeontology**

WILSON J. WALL

Auckland District Health Board

Investigating Fossils -- A History of Palaeontology is a concise and accessible look at changing attitudes to palaeontology in general, and fossils in particular. From the existential and philosophical debates arising from fossils -- such as their implications for the age of the Earth -- to their role as markers in Darwin's theory of evolution, fossils have been the centre of highly charged debate for over two centuries.

This book, which is aimed at anyone with an interest in the history and philosophy of science, not only describes the process of fossil formation and the history of the discovery of fossils. It goes further, and highlights the continuing importance of fossils to our ever-developing understanding of where the planet and its myriad species have come from. Painting a vivid, lively portrait of the history and development of palaeontology, *Investigating Fossils* is a fascinating and informative tour of the recent history -- and possible future -- of the science of fossils.

JULY 2021 256PP
978-1-119-69845-6 PB \$45.00 (Japan)
Paleontology, Paleobiology & Geobiology

A Mid-Ordovician Brachiopod Evolutionary Hotspot in Southern Kazakhstan

LEONID POPOV & L. ROBIN M. COCKS

SERIES: FOSSILS AND STRATA MONOGRAPH SERIES

JULY 2021 160PP
978-1-119-78187-5 PB \$75.00 (Japan)
Paleontology, Paleobiology & Geobiology

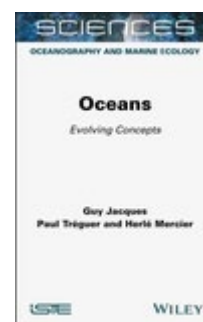
Oceans

Evolving Concepts

GUY JACQUES, PAUL TRÉGUER & HERLÉ MERCIER

Since the HMS Challenger expedition of 1872-1876, our vision of the ocean has changed completely. We now understand that it plays a key role in biodiversity, climate regulation, and mineral and biological resources, and as such, the ocean is a major service provider for humanity.

Oceans draws on data from new oceanographic and satellite tools, acquired through international interdisciplinary programs. It describes the processes that control how the ocean functions, on different spatial and temporal scales. After considering the evolution of concepts in physical, chemical and biological oceanography, the book outlines the future of a warmer, acidified, less oxygenated ocean. It shows how a view of the ocean at different scales changes how we understand it. Finally, the book presents the challenges facing the ocean in terms of the exploitation of biological and mineral resources, in the context of sustainable development and the regulation of climate change.



JULY 2021 320PP
978-1-78945-003-3 CL \$165.00 (Japan)
Oceanography & Paleooceanography

ファイナンス／インベストメント

Reconstructing Earth's Climate History

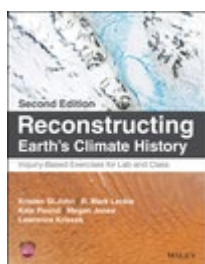
Inquiry-Based Exercises for Lab and Class

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.

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

Activate Your Money

Invest to Grow Your Wealth and Build a Better World

JANINE FIRPO, OAKLAND, UNITED STATES

Educate yourself about finance and socially conscious investing with a woman-centered approach

Activate Your Money provides the foundational support women need to talk to each other about their money, invest to grow their wealth, and to take the actions required to shift their assets into alignment with their values. Written for smart, savvy women who want to feel financially empowered, *Activate Your Money* starts where other personal finance books leave off. It delivers the depth of information you need to make informed investment decisions across your entire portfolio. Starting with checking and savings accounts and proceeding asset class by asset class, this book provides you with core investment knowledge, as well as concrete examples about how and where you can invest your money in alignment with your values.



You don't have to do it alone. As women, our strength is in relationships, and this book will help you use that strength to attain better financial outcomes for yourself and your family. *Activate Your Money* will help you find communities of support and position you to share your knowledge with other women and enable the next generation of smart, confident values-aligned investors. *Activate Your Money* also includes a companion website that contains downloadable tools you can use to take action and a curriculum that guides women through the process of starting and running their own values-aligned investment clubs.

Unlike any other investing book out there, *Activate Your Money* offers expert guidance, a uniquely woman-centered approach, and a focus on doing good while doing well. Whether you are just starting out or are already a seasoned investor, this book has something for you. Use it as a reference that you can return to again and again as you build your knowledge, confidence, and values-aligned portfolio.

JULY 2021 336PP
978-1-119-77708-3 CL \$29.95 (Japan)
General Finance & Investments

The Two Headed Coin

Unifying Strategy and Risk in Pursuit of Performance

JAMES L. DARROCH & DAVID W. M. FINNIE

Discover the interplay between strategy and risk in this insightful new resource from two experts in the financial industry who have applied their knowledge to multiple industries

In *The Two Headed Coin*, accomplished authors James L. Darroch and David Wm. Finnie deliver an insightful exploration of the interplay between strategy and risk that underlies the operational framework of successful organizations. You'll learn which risks are fundamental to the strategic positioning and goals of your organization and which are not. You'll also discover the importance of an independent risk function, e.g., the CRO, and its invaluable role as part of the strategic process.

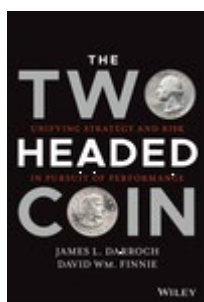
You'll also find:

- A thorough discussion of the notion of competitive advantage and how it relates to risk
- An exploration of consumer perception and reputation as an asset to be managed
- How to use scenario planning and real options to provide a framework for managing uncertainty
- How a focus on culture and ethics can minimize the risk of large losses due to adverse behaviors

Perfect for risk management and strategy professionals *The Two Headed Coin* will also earn a place in the libraries of executives and managers who wish to improve their ability to integrate strategic and risk thinking to create competitive advantage.

SERIES: WILEY FINANCE

JULY 2021 224PP
978-1-119-79420-2 CL \$39.95 (Japan)
General Finance & Investments



Transactional to Transformational

How Banks Innovate

CHRISTER C. HOLLOMAN

Banks, like any business, struggle to defend and grow their market share if they do not innovate. Research shows that when banks innovate, more often than not, the end product is usually delivered later than planned, has run over budget and fails to impress customers.

How do the most successful banks deliver digital innovation to customers and what can we learn from those that fail? In this book, the reader is invited to learn from the successes, as well as the failures, of 12 of the world's most well-known banks such as JP Morgan, HSBC and ING. Through a series of interviews with the key stakeholders at each bank, the author has codified the end-to-end process of taking something from the idea stage through to being used by customers. This book will equip the readers with a clear blueprint and actionable advice to ensure their own innovation projects are delivered successfully; on time, on budget and delighting customers. Once registered on the book website, readers can also access additional material online such as editable templates and models.

JULY 2021 304PP
978-1-119-79128-7 CL \$27.50 (Japan)
Money & Banking

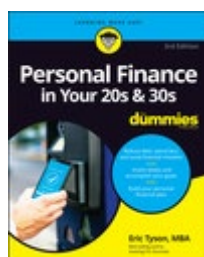
Personal Finance in Your 20s & 30s For Dummies

3rd Edition

ERIC TYSON, WESTON

The money lessons you wish you'd learned in school

Personal Finance in Your 20s & 30s For Dummies helps Millennials and Zoomers like you make smart financial moves. It's not as tough as it looks to reduce and file your taxes, pay off your student debt, buy a home, keep a budget to save and invest wisely, or start that side hustle, just to name a few. With a little bit of focus, you can start a clear path to financial freedom and avoid mistakes today. Your future self will thank you.



This edition is full of updates for the 2020s; wrap your mind around your investment opportunities, the realities of making a second income, higher ed options for career advancement, and lessons learned from the COVID-19 pandemic. If you're in need of financial guidance--and who isn't?--this is the book you need.

- Pay off loans, manage your credit, begin the home-buying journey, and more
- Set realistic money goals so you can create a solid path for financial success
- Make smart decisions to beef up your bank account and investment portfolio
- Protect the money you have today and learn how to put your money to work for the future

Get ready to turn up the volume on your financial know-how and stop worrying about money!

JULY 2021 UnknownPP
978-1-119-80543-4 PB \$22.99 (Japan)
PERSONAL FINANCE

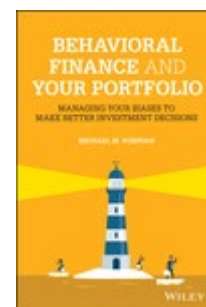
Behavioral Finance and Your Portfolio

Managing Your Biases to Make Better Investment Decisions

MICHAEL M. POMPIAN, ST. LOUIS

CFA, CFP, Hammond Associates

Conscientious individual investors can be difficult clients to advise due to their cerebral mindset, but they are usually grounded enough to listen to sound advice when it is presented in a way that respects their independent views. Often, they are confident in their beliefs and decisions but can be blinded by their contrary thinking-- becoming their own worst enemy. Michael Pompian has spent his career educating conscientious individual investors about how to identify what biases they display in managing their own portfolios, and to guard against the biases. A good approach is to have regular check ins -- with your advisor or yourself -- to that you can stay on track with your long-term investment goals. Because conscientious investors' biases are mainly cognitive, education on the benefits of portfolio diversification and sticking to a long-term plan can make all the difference and is usually the best course of action.



Conscientious investors (and their advisors) need to jointly need to reflect on how they make investment decisions and provide data-backed substantiation for recommendations. Your Portfolio shows individual investors how to take control of decision-making, even when challenging markets can push fear or greed to unproductive levels. The education in self-awareness and behavioral investment biases should yield more positive results.

As noted, this book is targeted at the individual investor -- helping them understanding the Big Five Behavioral Bias personality traits: loss aversion, status quo, recency, hindsight, confirmation, availability, and overconfidence. Pompian will mentor you to understand yourself and diagnose potential biases and your behavioral investor type that you will need to be aware of and regularly self-correct. The cases studies he shares with real people will aid you in become a better investor during bear and bull markets, when sound decision-making can be compromised due to how your brain is wired to behave.

SERIES: WILEY FINANCE
JULY 2021 320PP 978-1-119-80161-0 CL \$25.00 (Japan)
Investments & Securities

食品科学

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.

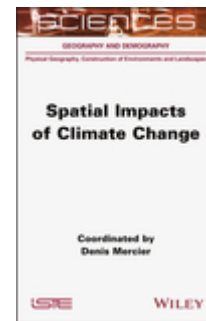
JULY 2021 960PP
978-1-119-04276-1 CL \$345.00 (Japan)
Food Biotechnology

地理学

Spatial Impacts of Climate Change

DENIS MERCIER

Climate change has been a central concern over recent years, with visible and highly publicized consequences such as melting Arctic ice and mountain glaciers, rising sea levels, and the submersion of low-lying coastal areas during mid-latitude and tropical cyclones. This book presents a review of the spatial impacts of contemporary climate change, with a focus on a systematic, multi-scalar approach. Beyond the facts - rises in temperature, changes in the spatial distribution of precipitation, melting of the marine and terrestrial cryosphere, changes in hydrological regimes at high and medium latitudes, etc. - it also analyzes the geopolitical consequences in the Arctic and Central Asia, changes to Mediterranean culture and to viticulture on a global scale, as well as impacts on the distribution of life, for example, in the Amazon rainforest, in large biomes on a global scale, and for birds.



JULY 2021 336PP
978-1-78945-009-5 CL \$165.00 (Japan)
General & Introductory Geography

Seven Ethics Against Capitalism

Towards a Planetary Commons

OLI MOULD

READERSHIP: advanced students and scholars in the social sciences as well as general readers with interests in postcapitalism, anticapitalism, and alternative economies

JULY 2021 156PP
978-1-5095-4595-7 CL \$64.95 (Japan)
978-1-5095-4596-4 PB \$22.95 (Japan)
Human Geography



The Unsettling Outdoors

Environmental Estrangement in Everyday Life

RUSSELL HITCHINGS

How is it that, in the course of everyday life, people are drawn away from greenspace experiences that are often good for them? By attending to the apparently idle talk of those who are living them out, this book shows us why we should attend to the processes involved.



- Develops an original perspective on how greenspace benefits are promoted
- Shows how greenspace experiences can unsettle the practices of everyday life
- Draws on several years of field research and over 180 interviews
- Makes new links between geographies of nature and the study of social practices
- Uses a focus on social practices to reimagine the research interview
- Offers a wealth of suggestions for future researchers in this field

SERIES: RGS-IBG BOOK SERIES

JULY 2021 256PP
978-1-119-54912-3 CL \$94.95 (Japan)
978-1-119-54915-4 PB \$39.95 (Japan)
Environmental Geography

公衆衛生

Global Climate Change and Human Health

From Science to Practice, 2nd Edition

JAY LEMERY, KIM KNOWLTON & CECILIA SORENSON

Learn more about the impact of global warming and climate change on human health and disease

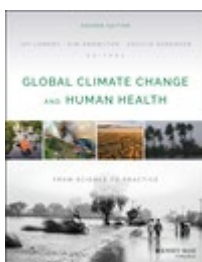
The Second Edition of *Global Climate Change and Human Health* delivers an accessible and comprehensive exploration of the rapidly accelerating and increasingly ubiquitous effects of climate change and global warming on human health and disease. The distinguished and accomplished authors discuss the health impacts of the economic, climatological, and geopolitical effects of global warming.

You'll learn about:

- The effect of extreme weather events on public health and the effects of changing meteorological conditions on human health
- How changes in hydrology impact the spread of waterborne disease and noninfectious waterborne threats
- Adaptation to, and the mitigation and governance of, climate change, including international perspectives on climate change adaptation

Perfect for students of public health, medicine, nursing, and pharmacy, *Global Climate Change and Human Health*, Second Edition is an invaluable resource for anyone with an interest in the intersection of climate and human health and disease.

JULY 2021 704PP
978-1-119-66795-7 PB \$85.00 (Japan)
INTERNATIONAL PUBLIC HEALTH

**The Mental Health and Wellbeing of Healthcare Practitioners**

Research and Practice

EDITOR ESTHER MURRAY & EDITOR JO BROWN

St George's University of London

JULY 2021 176PP
978-1-119-60951-3 PB \$65.00 (Japan)
Mental Health

コンシューマーヘルス

Nutrition For Dummies

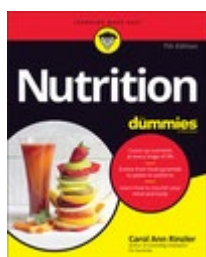
7th Edition

CAROL ANN RINZLER, NEW YORK, UNITED STATES

US Dummies

Updated with the latest available research and the new 2020-2025 Dietary Guidelines

It's a scientific fact: You really are what you eat. Good nutrition is your meal-ticket to staying sleek, healthy, and strong, both physically and mentally. *Nutrition For Dummies*, 7th Edition is a complete guide that shows you how to maintain a healthy weight, promote health, and prevent chronic disease. This book gives you the know-how to put together a shopping list, prepare healthy foods, and easily cut calories. Along the way, there's up-to-the-minute guidance for building a nutritious diet at every stage of life from toddler time to your Golden Years. Enjoy!



JULY 2021 432PP
978-1-119-72390-5 PB \$24.99 (Japan)
HEALTH, DIET & NUTRITION

歴史

Play in Renaissance Italy

PETER BURKE

Emmanuel College, Cambridge

READERSHIP: Graduates and Scholars of the renaissance in history

JULY 2021 120PP
978-1-5095-4342-7 CL \$64.95 (Japan)
978-1-5095-4343-4 PB \$22.95 (Japan)
General & Introductory History

Terra Incognita

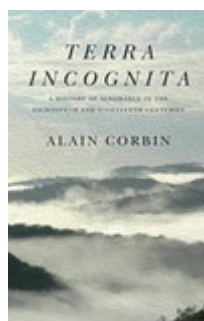
A History of Ignorance in the 18th and 19th Centuries

ALAIN CORBIN & TRANSLATED BY SUSAN PICKFORD

University of Paris I

READERSHIP: Students and scholars of cultural history, the history of science and knowledge, the general interested reader

JULY 2021 188PP
978-1-5095-4625-1 CL \$69.95 (Japan)
978-1-5095-4626-8 PB \$24.95 (Japan)
General & Introductory History

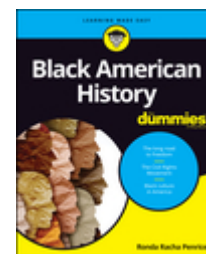


Black American History For Dummies

RONDA RACHA PENRICE, ATLANTA

Go deeper than the Black History you may think you know!

Black American History For Dummies reveals the terrors and struggles and celebrates the triumphs of Black Americans. This handy book goes way beyond what you may have studied in school, digging into the complexities and the intrigues that make up Black America. From slavery and the Civil Rights movement to Black Wall Street, Juneteenth, redlining, and Black Lives Matter, this book offers an accessible resource for understanding the facts and events critical to Black history in America.



The history of Black Americans is the history of Americans; Americans dance to Black music, read Black literature, watch Black movies, and whether they know it or not reap the benefits of the vibrant political, athletic, and sociological contributions of Black Americans. With this book, you can dive into history, culture, and beyond. See how far there's yet to go in the approach to studying Black American culture and ending racism.

- Get the authoritative story on the growth and evolution of Black America from slavery, Reconstruction, Jim Crow, the Civil Rights era through to today
- Discover the Black artists, musicians, athletes, and leaders who have made the United States what it is
- Develop a fuller understanding of concerns about police brutality and other front-and-center race issues
- Find out how every aspect of American life connects to Black history

Black American History For Dummies is for anyone who needs to learn or re-learn the true history about Black Americans.

JULY 2021 UnknownPP
978-1-119-78085-4 PB \$24.99 (Japan)
US History

The Birth of Modern America, 1914 - 1945

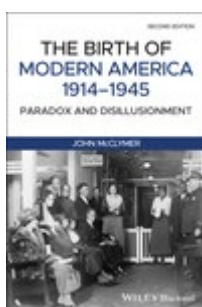
Paradox and Disillusionment, 2nd Edition

JOHN MCCLYMER

Assumption College

Provides a look at the origins of the culture wars of modern America and the political and economic transformation of the U.S. republic

This book tells, in clear and lively prose, how Americans struggled with modernity in both its cultural and economic forms between the start of World War I and the end of World War II, focusing on the 1920s through 1930s. This edition includes revisions that expand the scope and features increased coverage of topics that will be of great interest to new readers as well as those familiar with the subject.



The Birth of Modern America, 1914-1945, Second Edition begins with a discussion of the promises and perils of the progressive era. The book goes on to look at the Great War and life on the home front and explores many paradoxes that marked the birth of Modern America. Topics covered include: the pervasive racism and nativism during and after WWI; the disillusionment with Woodrow Wilson's rhetorical idealism; the emergence of national media; the Great Depression; FDR and the New Deal; the attack on Pearl Harbor; Hollywood's part during World War II; the United States' decision to drop "the bomb" on Japan; and more.

The Birth of Modern America, 1914-1945 is an excellent book for undergraduate courses on the 20th Century and advanced placement courses. It will benefit all students and scholars of the Progressive Era, the Depression, 1920s and 1930s America, and America between the Wars.

JULY 2021 304PP
978-1-119-08153-1 PB \$36.25 (Japan)
20TH CENTURY AMERICA

Narrative of the Life of Frederick Douglass

The Black History Classic

FREDERICK DOUGLASS & SERIES EDITOR TOM BUTLER-BOWDON

Oxford, UK

The Narrative of the Life of Frederick Douglass is regarded as one of the most important accounts of slavery in 19th century America that has ever been written. The narrative recounts Douglass' life from early childhood growing up on a Southern Plantation to his eventual escape to his freedom to the North.

Frederick Douglass writes about his experiences with his slave owners, how he became educated and his struggle to teach other slaves, and about his eventual escape from slavery. As an escaped slave, Douglass became a passionate and respected abolitionist, and served as an inspiration to many other early African Americans.

Part of the Capstone Classics Series, this deluxe hardback edition of this important slave narrative is a must have for anyone interested in African American history.

SERIES: CAPSTONE CLASSICS

JULY 2021 240PP
978-0-85708-910-6 CL \$13.99 (Japan)
American Social & Cultural History

Twelve Years a Slave

The Black History Classic

SOLOMON NORTHUP, SERIES EDITOR TOM BUTLER-BOWDON &
INTRODUCTION DAVID FISKE

Oxford, UK

Solomon Northup was born free as the son of an emancipated slave, who lived and worked in New York. In 1841, two con men offered him lucrative work playing fiddle in a circus, so he travelled with them to Washington, D.C., where he was drugged, kidnapped, and sold as a slave into the Red River region of Louisiana. For the next twelve years he survived as the human property of several different slave masters, where most of his suffering was at the hands of plantation owner Edwin Epps.

Twelve Years a Slave is Northup's harrowing memoir and is recognized as the most reliable, accurate eyewitness account of the daily lives of slaves. Not only as a significant historical reference, but also as an authentic and unforgettable account of a man starved of his freedom, it is an important part of the slave narrative genre.

The ongoing popularity of the Oscar-winning film has brought new audiences to Northup's classic, and this collectable Capstone Classics edition features an insightful introduction from series editor Tom Butler Bowdon.

SERIES: CAPSTONE CLASSICS

JULY 2021 240PP
978-0-85708-906-9 CL \$13.99 (Japan)
American Social & Cultural History

American Environmental History

2nd Edition

LOUIS S. WARREN

University of California at Davis

The thoroughly revised and newly updated Second Edition of *American Environmental History* delivers a comprehensive exploration of how the peoples of the United States have perceived, and made changes to, the natural world around them. It also describes how nature has changed in response to humanity, from the pre-Columbian era to the present, and how Americans have fought with one another over how best to live in the earth's natural systems.



Accomplished professor and author Louis S. Warren offers readers examinations of crucial topics, including Native American landscapes and relations with nature, virgin soil epidemics, colonial invasion, American slavery through environmental history and the nexus of race and environmental peril, market economies and the destruction of bison, passenger pigeons, whales, and other creatures, industrial development and its hazards, urbanization and calls for pollution control, conservation in the Progressive Era, wilderness and national parks, the rise of environmentalism, the birth of the environmental justice movement, consumerism and its environmental impact, the conservative backlash against environmentalism, and histories of ozone depletion, acid rain, overpopulation, and climate change. This book invites readers to weigh the distinctive experiences of different people--white, Black, and Native American--to environmental change and environmental threats from the colonial period to COVID-19.

Perfect for undergraduate and graduate students studying American Environmental History, this book is also ideal for anyone with even a passing interest in American natural history and the impact of her peoples on the natural world around them.

SERIES: WILEY BLACKWELL READERS IN AMERICAN SOCIAL
AND CULTURAL HISTORY

JULY 2021 544PP
978-1-4443-3939-0 PB \$58.25 (Japan)
HISTORY OF SCIENCE & MEDICINE

The Interesting Narrative of Olaudah Equiano

The Black History Classic

OLAUDAH EQUIANO & SERIES EDITOR TOM BUTLER-BOWDON

Oxford, UK

The Life of Olaudah Equiano first published in 1789 in London, is the autobiography of Olaudah Equiano. The narrative represents a variety of styles, including slavery narrative, travel narrative, and spiritual narrative. The book describes Equiano's time spent in enslavement, and documents his attempts at becoming an independent man through his study of the Bible, and his eventual success in gaining his own freedom.

Born in the area that is now southern Nigeria, he was kidnapped with his sister at around the age of 11, sold by local slave traders and shipped across the Atlantic to Barbados and then Virginia. After spells in Barbados and Virginia, he spent eight years travelling the world as slave to a British Royal Navy officer, who renamed him Gustavus Vassa. His final master, an English merchant in Montserrat, let him buy his freedom for £40 -- almost a year's salary. Equiano worked as an explorer and merchant for 20 years, and eventually settled in England, the country where he had converted to Christianity in 1759. With the encouragement of the Abolitionists, who campaigned against the slave trade, he published his memoirs in 1789.

Part of the best selling Capstone Classics Series, this collectable hardback edition is a volume which will occupy a prominent place in any library for years to come.

SERIES: CAPSTONE CLASSICS

JULY 2021 240PP
978-0-85708-913-7 CL \$13.99 (Japan)
Social & Cultural History

ホスピタリティ

Introduction to Hospitality Management

DENNIS R. REYNOLDS, IMRAN RAHMAN & CLAYTON W. BARROWS

School of Hospitality Business Management, Washington State University; School of Hotel, Restaurant & Tourism Administration, University of New Orleans

The hospitality industry's rapid evolution provides career-seekers with tremendous opportunity--and unique challenges. Changes in the global economy, rising interest in ecotourism, the influence of internet commerce, and myriad other trends contribute to the dynamic nature of this exciting field. *Introduction to Hospitality Management* presents a thorough overview of historical perspectives, current trends, and real-world practices. Coverage of bar and restaurant management, hotel and lodging operations, travel and tourism, and much more gives students a comprehensive survey of this rewarding field.

Focusing on practicality, this text presents real-world examples of traditional methods alongside insightful discussions surrounding changes in consumer demands and key issues affecting the industry. The industry's multifaceted nature lends itself to broad exploration, and this text provides clear guidance through topics related to foodservice operation, convention management, meeting planning, casino and gaming management, leadership and staffing, financial and business models, and promotion and marketing. Emphasis on career planning and job placement strategies give students a head start in charting their future in hospitality.

JULY 2021 UnknownPP
978-1-119-32627-4 CL \$120.95 (Japan)
GENERAL & INTRODUCTORY HOSPITALITY

エンジニアリング

Advanced Engineering Economics

2nd Edition

CHAN S. PARK & GUNTER P. SHARP

Auburn University; Georgia Institute of Technology

JULY 2021 UnknownPP
978-1-119-69196-9 PB \$166.95 (Japan)
ENGINEERING TECHNOLOGY MANAGEMENT

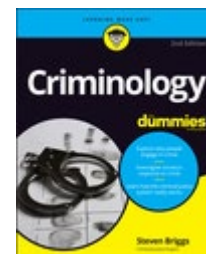
法律

Criminology For Dummies

2nd Edition

STEVEN BRIGGS

Criminology For Dummies 2e takes its reader into the world of crime by providing such information as reasons for crime and the consequences that follow, society's response to it, and how to prevent it. Criminology For Dummies 2e contains updated anecdotes and cases for the current day, and will take a detailed look into: Internet Crime, Marijuana legalization and changes in drug crime, and reform in the relationship between race and policing.



JULY 2021 UnknownPP
978-1-119-77319-1 PB \$24.99 (Japan)
CRIMINOLOGY

ライフスタイル

Canning & Preserving For Dummies

3rd Edition

AMELIA JEANROY, ROBBINSON

Get your food preservation skills in the can

Craving a juicy peach in the barren midwinter? Yearning for a cupful of home-grown tomato soup before the seeds are even in the ground? Canning makes you the ultimate boss of your food supply all year round and helps you reduce costs and maintain quality control over what you eat--and to be prepared in times of food shortages.

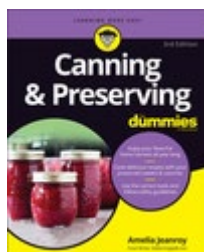
And *Canning & Preserving For Dummies* shows you how to do it all, helping you explore hundreds-of-years-old traditions of food preservation in the comfort of your own home.

In a friendly and step-by-step style, longtime canner and owner of TheFarmingWife.com Amy Jeanroy takes you inside the canning world to show how modern technology and techniques have made it easy to use the four main methods of preservation--water-bath and pressure canning, freezing, and dehydrating--to keep your pantry packed with delicious, out-of-season delights. She also clues you in on how to match preservation technique to food for the most flavorful results--and what supplies to keep on hand for your next canning adventure.

- Know the benefits, from healthier eating to self-reliance
- Follow the latest food safety guidelines
- Get guidance on food storage in urban living
- Cook up tasty recipes with your preserved delights

Whatever draws you to canning--saving money on groceries, healthy living, or the sheer fun of doing it--this book is stuffed with all the goodness you need to keep your palate happy whatever the season is!

JULY 2021 448PP
978-1-119-78778-5 PB \$24.99 (Japan)
COOKING



ライフサイエンス

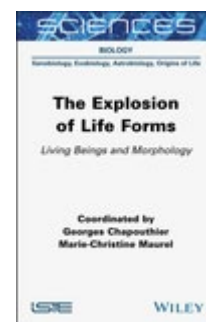
The Explosion of Life Forms

Living Beings and Morphology

COMPILED BY GEORGES CHAPOUTHIER & COMPILED BY
MARIE-CHRISTINE MAUREL

One of the essential characteristics of living beings is the explosion of variety in their forms that is intrinsically linked to the diversity of the environments they have adapted to.

This book, the result of collaboration between international specialists, analyzes the multiplicity of these morphologies. It explores the origin of forms, their role in defining living things, and the relationship between form and function. It exposes the role of genes and epigenetics and examines the forms of bacteria, protists and plants. The *Explosion of Life Forms* also studies the memory of animals and their sensory processes, the forms of robots (built in the image of living things), and medical technologies aimed at restoring damaged living forms. Finally, this work questions a common principle of construction in the diversity of forms, as well as the idea of an abandonment of the form, a possible hidden defect of some modern philosophies.



JULY 2021 256PP
978-1-78945-005-7 CL \$165.00 (Japan)
General Biology

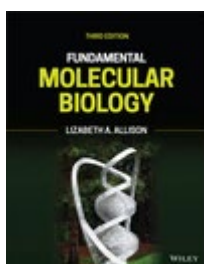
Fundamental Molecular Biology

3rd Edition

LIZABETH A. ALLISON

College of William and Mary, Virginia

While there is an innate fascination and interest in how our own genes influence our lives, molecular biology students are daunted by the amount of information they need to assimilate in order to succeed in the course. And, with the fast pace of discovery in the field, it is difficult to find suitable, up to date texts for the course—they are either too advanced, comprehensive and overwhelming detailed, or they are too basic, superficial, and less experimental in their approach. Instructors find it difficult to decide what topics are the most important to include and exclude in the course when presented with an extensive array of choices.



Fundamental Molecular Biology is selective in its coverage and presents essential topics that allow students to develop an understanding of how molecular biology is applied to the analysis of complex systems. Through the process of discovery—observations, questions, experimental designs, results and conclusions—and with an emphasis on the language of molecular biology, students can focus on the key ideas they need to succeed in the course. Students will also have the support they need outside the classroom to leave your course knowing the core, fundamental concepts of molecular biology delivered through a visually engaging, and focused text with a rich media program that promotes self-study.

With a strong emphasis on biomedical research and discovery, students are exposed to both classic and the most up to date techniques and research in molecular biology today. Our book encourages reading and discovery through in-text tools, and media tools.

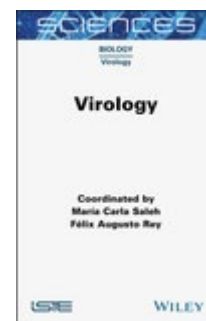
SEPTEMBER 2021 816PP
978-1-119-15629-1 CL \$169.95 (Japan)
CELL & MOLECULAR BIOLOGY

Virology

MARIA CARLA SALEH & FELIX AUGUSTO REY

Viruses interact with all forms of life and have shaped evolution for 4 billion years. The COVID-19 pandemic highlights the importance of conducting scientific research into viruses to understand the interactions between them and their hosts.

Virology is made up of eight chapters, all of which have been written by outstanding female virologists, emphasizing women's fundamental role in all aspects of science. It summarizes our current knowledge about the biology of viruses in general and analyzes the specific features of several ones of medical, veterinary and agricultural importance. Genome replication strategies of different virus families are covered, as well as strategies for survival within their hosts by counteraction of the cellular innate antiviral responses. Attention is also given to viral strategies for efficient dissemination in nature, as well as the evolution of a select group of viruses.



JULY 2021 368PP
978-1-78945-023-1 CL \$165.00 (Japan)
Virology

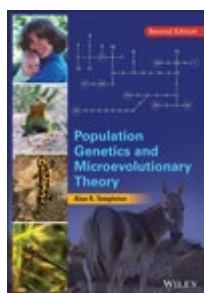
Population Genetics and Microevolutionary Theory

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.



JULY 2021 768PP
978-1-118-50423-9 CL \$135.25 (Japan)
GENETICS

Molecular Mechanisms of Photosynthesis

3rd Edition

ROBERT E. BLANKENSHIP

Arizona State University

The field of photosynthesis has changed dramatically since the 2nd edition of this book was published in 2014. One of the most important changes is the large number of new structures, both X-ray and Cryo-EM that have been determined for many of the key complexes that carry out photosynthesis. Important new information about the mechanism of oxygen production has recently become available. Substantial efforts to improve the efficiency of photosynthesis have been undertaken. New pigments and new organisms have been discovered that extend oxygenic photosynthesis deeper into the near infrared spectral region. There is important new information about the regulation of photosynthesis and about the critical process of photoprotection.

These advances will be included within the existing chapters of the book. The basic organization of the book will not be changed, and the current chapter scope and number will be retained.

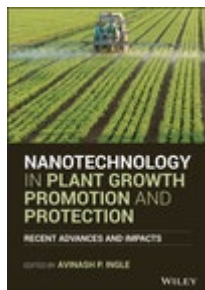
JULY 2021 324PP
978-1-119-80001-9 PB \$85.00 (Japan)
PLANT SCIENCE

Nanotechnology in Plant Growth Promotion and Protection

EDITOR AVINASH P. INGLE

Discover the role of nanotechnology in promoting plant growth and protection through the management of microbial pathogens

In *Nanotechnology in Plant Growth Promotion and Protection*, distinguished researcher and author Dr. Avinash P. Ingle delivers a rigorous and insightful collection of some of the latest developments in nanotechnology particularly related to plant growth promotion and protection. The book focuses broadly on the role played by nanotechnology in growth promotion of plants and their protection through the management of different microbial pathogens.



You'll learn about a wide variety of topics, including the role of nanomaterials in sustainable agriculture, how nano-fertilizers behave as soil feed, and the dual role of nanoparticles in plant growth promotion and phytopathogen management. You'll also discover why nanotechnology has the potential to revolutionize the current agricultural landscape through the development of nano-based products, like plant growth promoters, nano-fertilizers, nano-pesticides, and nano-insecticides.

Find out why nano-based products promise to be a cost-effective, economically viable, and eco-friendly approach to tackling some of the most intractable problems in agriculture today.

Perfect for undergraduate, graduate, and research students of nanotechnology, agriculture, plant science, plant physiology, and crops, *Nanotechnology in Plant Growth Promotion and Protection* will also earn a place in the libraries of professors and researchers in these areas, as well as regulators and policymakers.

JULY 2021 450PP
978-1-119-74585-3 CL \$200.00 (Japan)
Plant Physiology

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.

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

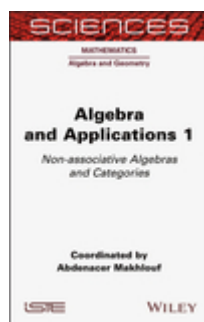
数学

Algebra and Applications 1

Non-associative Algebras and Categories

ABDENACER MAKHLOUF

This book is part of Algebra and Geometry, a subject within the SCIENCES collection published by ISTE and Wiley, and the first of three volumes specifically focusing on algebra and its applications. Algebra and Applications 1 centers on non-associative algebras and includes an introduction to derived categories. The chapters are written by recognized experts in the field, providing insight into new trends, as well as a comprehensive introduction to the theory.



The book incorporates self-contained surveys with the main results, applications and perspectives. The chapters in this volume cover a wide variety of algebraic structures and their related topics. Jordan superalgebras, Lie algebras, composition algebras, graded division algebras, non-associative C^* -algebras, H^* -algebras, Krichever-Novikov type algebras, preLie algebras and related structures, geometric structures on 3-Lie algebras and derived categories are all explored. Algebra and Applications 1 is of great interest to graduate students and researchers. Each chapter combines some of the features of both a graduate level textbook and of research level surveys.

JULY 2021 368PP
978-1-78945-017-0 CL \$165.00 (Japan)
Algebra

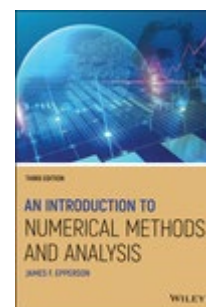
An Introduction to Numerical Methods and Analysis

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.

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

Graphs and Networks

SANDRA KINGAN

A unique blend of graph theory and the modern applications of networks for students and data science professionals

In *Graphs and Networks*, accomplished mathematician and author Dr. Sandra R. Kingan delivers up to date and topical coverage of graph theory while tying in the various real-world applications of social, telecommunication, and computer networks. It includes topics like Tutte's Wheels Theorem, Seymour's Splitter Theorem, and decomposition theorems, and offers access to an accompanying website containing a growing collection of papers that illustrate the practical applications and techniques of graph theory to network science.

Dr. Kingan has extensively classroom tested the text and includes an Instructor's Manual available via written request to the publisher. The book offers practical homework problems to reinforce the presented concepts and limits its use of proof-based, mathematically rigorous problems to advanced topical chapters in Part III. You'll discover a distillation of elements common to large graphs and presentation of particular graphs as examples of the underlying mathematics. Readers will also benefit from the inclusion of:

- A thorough introduction to basic definitions in graph and network theory, as well as isomorphism, graph substructures, and graph operations
- An exploration of graph statistics, tress, degree sequences, Eulerian circuits, Hamiltonian cycles, planar graphs, and colorings
- A practical discussion of matchings and coverings, graph algorithms, network algorithms, random graphs, spectral graph theory, centrality measures, and network flows
- A concise examination of network reliability, extremal graph theory, higher connectivity, excluded minors, and k-sums

Perfect for upper-undergraduate students in graph theory and network science courses or as a self-study text for graduate level students, *Graphs and Networks* will also earn a place in the libraries of network scientists and graph theorists seeking an insightful reference for the mathematics underlying network science.

JULY 2021 288PP
978-1-118-93718-1 CL \$99.95 (Japan)
Graph Theory

Cryptography, Information Theory, and Error-Correction

A Handbook for the 21st Century, 2nd Edition

AIDEN A. BRUEN, CALGARY, ALBERTA, CANADA, MARIO A. FORCINITO, CALGARY, ALBERTA, CANADA & JAMES M. MCQUILLAN

University of Calgary, Alberta, Canada ; AP-Dynamics, Inc., Calgary, Alberta, Canada

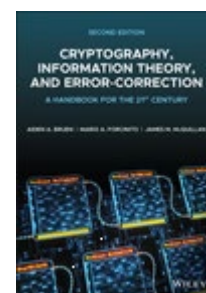
A rich examination of the technologies supporting secure digital information transfers from a respected leader in the field

As technology continues to advance, *Cryptography, Information Theory, and Error-Correction: A Handbook for the Twenty-First Century* is an indispensable resource for anyone interested in the secure exchange of financial information. Identity theft, cybercrime, and other security issues have taken center stage as information becomes easier to access. Three disciplines offer solutions to these digital challenges: cryptography, information theory, and error-correction, all of which are addressed in this book.

This book is geared toward a broad audience of professionals working at financial institutions, law firms, and governments who need updated information to make critical decisions. The book's discussions will also be of interest to those involved in blockchains as well as those working in companies developing and applying security for new products, like self-driving cars. The second edition is also an authoritative overview for IT professionals, statisticians, mathematicians, computer scientists, electrical engineers, and entrepreneurs.

Cryptography, Information Theory, and Error-Correction guides readers in their understanding of reliable toolsthat can be used tostoreor transmit digital informationsafely.

JULY 2021 656PP
978-1-119-58242-7 CL \$135.00 (Japan)
Cryptography



メディカル・サイエンス

ABC of Clinical Resilience

EDITOR ANNA FRAIN, EDITOR SUE MURPHY & EDITOR JOHN FRAIN

University of Nottingham

Professional burnout remains a constant and increasing concern. With *ABC of Clinical Resilience*, you'll learn how to connect with those impulses that motivated you to become a healthcare professional in the first place. You'll rediscover that joy of practice' that nourishes and replenishes your energy even as you do the hard work of caring for your patients, and practice the self-care necessary to maintain a positive and consistently productive outlook.



ABC of Clinical Resilience delivers a concise and perceptive treatment of what it means to be a resilient healthcare professional. The book describes the concept of resilience and how organisations and healthcare teams can use intelligent kindness to help their team members maintain their efficacy and avoid burnout in the long term.

Readers will also benefit from the inclusion of:

A thorough introduction to the concept of resilience and why it's important at this moment in time in the healthcare profession

- An exploration of the emotional impact of working in healthcare
- Practical discussions of resilience and how it affects cognitive performance, as well as organisational kindness and the teaching of resilience and compassion
- Treatments of self-care, the physiology of resilience and well-being, and an examination of intelligent kindness in healthcare teams

Perfect for healthcare professionals, especially mental healthcare professionals, *ABC of Clinical Resilience* will also earn a place in the libraries of professionals who treat healthcare workers and readers interested in the psychology and prevention of burnout, vicarious trauma, and compassion fatigue.

SERIES: ABC SERIES

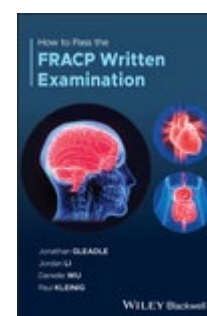
JULY 2021 108PP
978-1-119-69343-7 PB \$45.00 (Japan)
Medical Professional Development

How to Pass the FRACP Written Examination

JONATHAN GLEADLE, JORDAN LI, DANIELLE WU & PAUL KLEINIG

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

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



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

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

JULY 2021 592PP
978-1-119-59950-0 PB \$70.00 (Japan)
Medical Professional Development

Emergency Management of the Hi-Tech Patient in Acute and Critical Care

EDITOR IOANNIS KOUTROULIS & EDITOR NICHOLAS TSAROUHAS

Emergency Management of the Hi-Tech Patient in Acute and Critical

Care helps practitioners stabilize and care for pediatric and adult patients who have specialized medical devices such as prosthetic valves, cochlear transplants, insulin pumps, orthopedic hardware, and ventriculoperitoneal (VP) shunts. Using a step-by-step approach to acute presentations of patients with clinical hardware, this concise yet comprehensive guide provides specific instructions for the initial evaluation and management of numerous clinical scenarios including device malfunctions, infections, trauma, surgical complications, and more.



Encompassing management of both the patient and the device, the guide enables emergency and critical care clinicians to rapidly make appropriate treatment decisions without the immediate need for extensive research, extended discussions with subspecialists, or recalling complex diagnostic and therapeutic algorithms. Clear, concise, and easy-to-follow chapters--written by a panel of highly experienced experts across specialties--include numerous algorithms, figures, tables, diagrams, and color illustrations and clinical images.

Emergency Management of the Hi-Tech Patient in Acute and Critical Care is a must-have clinical reference and guide for pediatric and adult emergency medicine physicians, general pediatricians, internists, general practitioners, critical care specialists, and allied health practitioners.

JULY 2021 400PP
978-1-119-26292-3 CL \$124.95 (Japan)
Emergency Medicine & Trauma

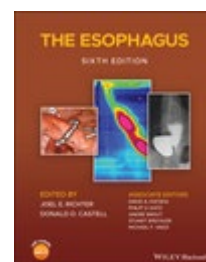
The Esophagus

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

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

Gastrointestinal Pathology

Correlative endoscopic and histologic assessment

GREGORY Y. LAUWERS

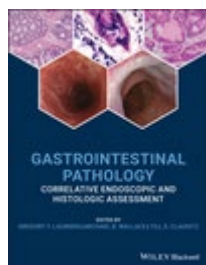
An illustrated guide to best practices when performing and assessing biopsies for GI conditions of all kinds

Accurate diagnosis of GI conditions necessarily entails both the careful taking of biopsies and the informed analysis of tissue material. With that being so, gastroenterologists and GI pathologists alike must have a solid understanding of the techniques, handling requirements, and diagnostic characteristics involved if they are to collaborate effectively. *Gastrointestinal Pathology* has been designed to provide a clinically focussed and richly illustrated guide to real-world scenarios faced by practicing GI specialists, offering step-by-step instruction and professional advice on the correct diagnosis of all major GI conditions. This essential new book includes:

- Full-color illustrations throughout
- Complete details of biopsy samples required to diagnose specific conditions
- Reviews of differential diagnoses
- Clinical management clues based on pathologic findings

Featuring information to improve the practice of all gastroenterologists and GI pathologists, *Gastrointestinal Pathology* is a practical and every-day resource for the precise diagnosis of a wide range of GI conditions.

JULY 2021 384PP
978-0-470-65836-9 CL \$200.00 (Japan)
Gastroenterology

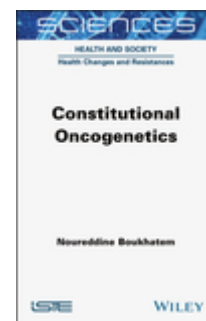


Constitutional Oncogenetics

NOUREDDINE BOUKHATEM

In the age of genomics, oncogenetics is a growing discipline. It is defined as the identification and management of families where there is a suspected hereditary risk of cancer. This relatively new discipline is part of a modern medicine that aims to be both preventive and predictive.

Constitutional Oncogenetics gives precise descriptions of the main syndromes that cause a predisposition for cancer. The first part examines the most common syndromes in the majority of the world, including the heightened hereditary risk of breast and ovarian cancer and Lynch syndrome. The second part introduces less common infracentesimal syndromes, such as Bloomsyndrome and Fanconi syndrome. This book is intended for oncogenetic practitioners and otherspecialists, as well as medical students.



JULY 2021 288PP
978-1-78945-016-3 CL \$165.00 (Japan)
Oncology & Radiotherapy

Clinical Guide to Paediatrics

EDITOR RACHEL VARUGHESE, EDITOR ANNA MATHEW & SERIES
EDITOR CHRISTIAN FIELDER CAMM

King's College Hospital, London

Clinical Guide to Paediatrics enables rapid reference to common paediatric conditions presenting in acute settings to any professional working with children. Organised into systems-based sections, the guide focuses on important differential diagnoses based on presenting complaints, and addresses the key features of the history and physical examination within each diagnosis to guide necessary investigations and subsequent management principles.

Medical students, junior doctors, nurses and general practitioners would benefit from this clear, up-to-date evidence-based book, supported by numerous diagnostic algorithms, diagrams, tables and bullet points throughout. Succinct chapters are logically structured to allow easy access to important concepts.

Designed to complement the doctor-patient interaction in clinical practice, this valuable guide:

- Covers the most common presenting complaints encountered in acute paediatrics
- Provides evidence-based information on a wide variety of disorders, and issues faced in paediatric medicine to provide a unique, highly practical approach to the subject
- Includes access to a companion website containing images and clinical photos, audio podcasts, clinical case studies, and self-assessment exercises

Clinical Guide to Paediatrics is essential reading for medical students, junior doctors, nurses, general practitioners and specialist trainees working on paediatric wards or emergency departments.

SERIES: CLINICAL GUIDES

JULY 2021 2700PP
978-1-119-53911-7 PB \$59.99 (Japan)
Paediatrics

Randomised Clinical Trials

Design, Practice & Reporting, 2nd Edition

DAVID MACHIN, UNITED KINGDOM & PETER M. FAYERS

Medical Research Council Cancer Trials Office, Cambridge;
Medical Research Council Clinical Trials Unit, London, UK

Randomised Clinical Trials: Design, Practice and Reporting provides a detailed overview of the methodology for conducting clinical trials, including developing protocols, data capture, randomisation, analysis and reporting. Assuming no prior background, this user-friendly resource describes the statistical, regulatory, and practical components required for conducting randomised clinical trials. Numerous examples and case studies from industry, academia, and the research literature help readers understand each stage of the clinical trial process.



This second edition contains extensively revised material throughout, including new chapters covering designs for repeated measures, non-inferiority, cluster and stepped wedge trials. Other new chapters describe data and safety monitoring, biomarker studies, and feasibility studies. Updated and expanded sections discuss situations where multiple organs, different body locations or competing risks are involved, subgroup analysis, and multiple outcomes.

Randomised Clinical Trials is essential reading for clinicians, nurses, data managers, and medical statisticians involved in clinical trials, and for health practitioners responsible for direct patient care in a clinical trial setting.

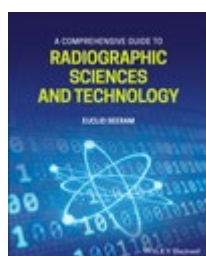
JULY 2021 416PP
978-1-119-52464-9 PB \$99.99 (Japan)
PHARMACOLOGY & PHARMACEUTICAL MEDICINE

A Comprehensive Guide to Radiographic Sciences and Technology

EUCLID SEERAM

British Columbia Institute of Technology Medical Imaging,
School of Health Sciences, Canada

A comprehensive and succinct guide to radiographic physics and imaging, covering all the core components of the radiographic sciences, including digital imaging production and equipment, radiation protection and safety, and the principles of Computed Tomography.



- Designed to support students preparing to sit certification and board examinations, including the American Registry for Radiologic Technologists (ARRT) and other global radiography certification examinations.
- Addresses the core radiographic science components of the ASRT curriculum, including digital imaging production and equipment, radiation protection and safety, and the principles of Computed Tomography.
- Useful for students and practitioners in diagnostic medical radiation technology, radiography and medical radiation sciences, as well as in biomedical engineering technology.

JULY 2021 240PP
978-1-119-58184-0 PB \$69.99 (Japan)
Radiology & Imaging

Evidence-Based Orthopedics

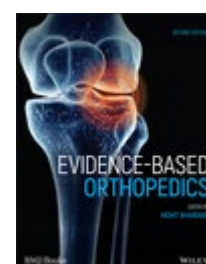
2nd Edition

MOHIT BHANDARI

McMaster University, Hamilton, Ontario

Evidence-Based Orthopedics is an up-to-date review of the best evidence for the diagnosis, management, and treatment of orthopedic conditions.

Covering orthopedic surgery as well as pre- and post-operative complications, this comprehensive guide provides recommendations for implementing evidence-based practice in the clinical setting. Chapters written by leading clinicians and researchers in the field are supported by tables of evidence that summarize systematic reviews and randomized controlled trials. In areas where evidence is insufficient to recommend a practice, summaries of the available research are provided to assist in decision-making.



This fully revised new edition reflects the most recent evidence using the approved evidence-based medicine (EBM) guidelines and methodology. The text now places greater emphasis on GRADE—a transparent framework for developing and presenting summaries of evidence—to allow readers to easily evaluate the quality of evidence and the strength of recommendations. The second edition offers a streamlined presentation and an improved standardized format emphasizing how evidence in each chapter directly affects clinical decisions.

Evidence-Based Orthopedics is an invaluable resource for orthopedic specialists, surgeons, trauma surgeons, trainees, and medical students.

SERIES: EVIDENCE-BASED MEDICINE

JULY 2021 1216PP
978-1-119-41400-1 CL \$299.95 (Japan)
ORTHOPEDICS

Abrams' Urodynamics

4th Edition

MARCUS DRAKE & HASHIM HASHIM

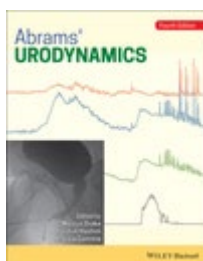
A practical guide to all aspects of urodynamic investigation and its role in modern health care

Urodynamic testing is an ever-advancing field with applications in the management of patients from across a wide range of clinical areas. Bringing together fundamental principles and cutting-edge innovations, *Abrams' Urodynamics* has been designed as an all-in-one guide to Functional Urology and Urogynecology, offering direct, up-to-date instruction on how to best perform and understand urodynamic tests within the overall treatment pathway. Its chapters cover everything from everyday basic practice to advanced complex cases, and are enhanced with more than 450 helpful illustrations. Including numerous revisions and new features, this fourth edition of the book boasts:

- Coverage of all investigative approaches, including uroflowmetry, cystometry, video-urodynamics, and non-invasive techniques
- Details on the successful running of a urodynamic unit, with information on organizational issues, equipment set-up, and common problems and pitfalls
- Sections addressing children, women, men, the elderly, and neuropaths
- Extensive description of International Continence Society (ICS) Standards throughout
- Appendices that include ICS Standards and Fundamentals documents, ICIQ modules and Patient Information Leaflets

With its wealth of clinical tips, illustrations, new innovations, and hands-on advice, *Abrams' Urodynamics* is essential reading for all those wishing to better integrate urodynamic testing into their daily practice.

MAY 2021 640PP
978-1-118-84471-7 PB \$80.00 (Japan)
Urology



Introductory Mathematics for Engineering Applications

2nd Edition

KULDIP S. RATTAN, NATHAN W. KLINGBEIL & CRAIG M. BAUDENDISTEL

Wright State University; Wright State University

Introductory Mathematics for Engineering Applications, 2nd Edition, provides first-year engineering students with a practical, applications-based approach to the subject. This comprehensive textbook covers pre-calculus, trigonometry, calculus, and differential equations in the context of various discipline-specific engineering applications. The text offers numerous worked examples and problems representing a wide range of real-world uses, from determining hydrostatic pressure on a retaining wall to measuring current, voltage, and energy stored in an electrical capacitor. Rather than focusing on derivations and theory, clear and accessible chapters deliver the hands-on mathematical knowledge necessary to solve the engineering problems students will encounter in their careers. The textbook is designed for courses that complement traditional math prerequisites for introductory engineering courses -- enabling students to advance in their engineering curriculum without first completing calculus requirements. Now available in enhanced ePub format, this fully updated second edition helps students apply mathematics to engineering scenarios involving physics, statics, dynamics, strength of materials, electric circuits, and more.

JUNE 2021 464PP
978-1-119-60442-6 PB \$75.95 (Japan)
GENERAL & INTRODUCTORY MECHANICAL ENGINEERING

Vibration-based Condition Monitoring

Industrial, Automotive and Aerospace Applications

2nd Edition

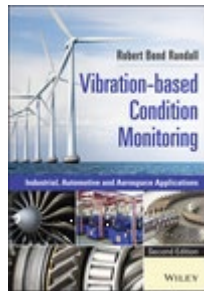
ROBERT BOND RANDALL

Stay up to date on the newest developments in machine condition monitoring with this brand-new resource from an industry leader

The newly revised second edition of *Vibration-based Condition Monitoring: Industrial, Automotive and Aerospace Applications* delivers a thorough update to the most complete discussion of the field of machine condition monitoring. The distinguished author offers readers new sections on diagnostics of variable speed machines, including wind turbines, as well as new material on the application of cepstrum analysis to the separation of forcing functions, structural model properties, and the simulation of machines and faults.

The book provides improved methods of order tracking based on phase demodulation of reference signals and new methods of determining instantaneous machine speed from the vibration response signal. Readers will also benefit from an insightful discussion of new methods of calculating the Teager Kaiser Energy Operator (TKEO) using Hilbert transform methods in the frequency domain.

Perfect for machine manufacturers who want to include a machine monitoring service with their product, *Vibration-based Condition Monitoring: Industrial, Automotive and Aerospace Applications* will also earn a place in university and research institute libraries where there is an interest in machine condition monitoring and diagnostics.



JULY 2021 448PP
978-1-119-47755-6 CL \$145.00 (Japan)
SOLID MECHANICS

Vibrations of Linear Piezostructures

ANDREW J. KURDILA & PABLO A. TARAZAGA

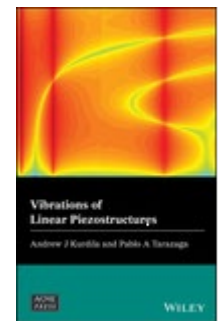
University of Florida

A thorough guide to the fundamental development of linear piezoelectricity for vibrations

Vibrations of Linear Piezostructures is an introductory text that offers a concise examination of the general theory of vibrations of linear piezostructures. This important book brings together in one comprehensive volume the most current information on the theory for modeling and analysis of piezostructures. The authors explore the fundamental principles of piezostructures, review the relevant mathematics, continuum mechanics and elasticity, and continuum electrodynamics as they are applied to electromechanical piezostructures, and include the work that pertains to linear constitutive laws of piezoelectricity.

The book addresses modeling of linear piezostructures via Newton's approach and Variational Methods. In addition, the authors explore the weak and strong forms of the equations of motion, Galerkin approximation methods for the weak form, Fourier or modal methods, and finite element methods.

Written for students, professionals, and researchers in the field, *Vibrations of Linear Piezostructures* is an up-to-date volume to the fundamental development of linear piezoelectricity for vibrations from initial development to fully modeled systems using various methods.



SERIES: WILEY-ASME PRESS SERIES

JULY 2021 240PP
978-1-119-39340-5 CL \$120.00 (Japan)
Solid Mechanics

Aircraft Propulsion

Cleaner, Leaner, and Greener, 3rd Edition

SAEED FAROKHI

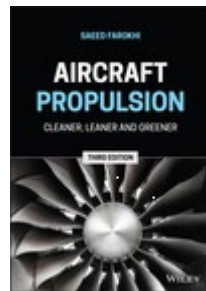
University of Kansas

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

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

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

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



JULY 2021 900PP
978-1-119-71864-2 CL \$110.00 (Japan)
AERONAUTIC & AEROSPACE ENGINEERING

Introduction to Flight Testing

JAMES W. GREGORY & TIANSHU LIU

Provides an introduction to the basic flight testing methods employed on general aviation aircraft and unmanned aerial vehicles

Introduction to Flight Testing of Light Aircraft and UAVs provides a concise introduction to the basic flight testing methods employed on general aviation aircraft and unmanned aerial vehicles for courses in aeronautical engineering. There is particular emphasis on the use of modern on-board instruments and inexpensive, off-the-shelf portable devices that make flight testing accessible to nearly any student.

This text presents a clear articulation of standard methods for measuring aircraft performance characteristics. Topics covered include aircraft and instruments, digital data acquisition techniques, flight test planning, the standard atmosphere, uncertainty analysis, level flight performance, airspeed calibration, stall, climb and glide, take-off and landing, level turn, and static and dynamic longitudinal stability.

Unique to this book is a detailed discussion of digital data acquisition (DAQ) techniques, which are an integral part of modern flight test programs. This treatment includes discussion of the analog-to-digital conversion, sample rate, aliasing, and filtering. These critical details provide the flight test engineer with the insight needed to understand the capabilities and limitations of digital DAQ.

Introduction to Flight Testing of Light Aircraft and UAVs provides resources and guidance for practitioners in the rapidly-developing field of UAV performance flight test and the general aviation flight test community.



SERIES: AEROSPACE SERIES

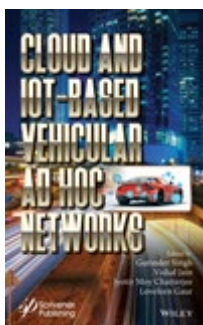
JULY 2021 400PP
978-1-118-94982-5 CL \$120.00 (Japan)
Aeronautic & Aerospace Engineering

Cloud and IoT Based Vehicular Ad-Hoc Networks

GURINDER SINGH, VISHAL JAIN, JYOTIR MOY CHATTERJEE & LOVELEEN GAUR

Optimizing the traffic management operations is a big challenge due to massive global increase in vehicles numbers, traffic congestion and road accidents.

This book describes the state-of-the-art of the recent developments of Internet of Things (IoT) and cloud computing-based concepts have been introduced to improve Vehicular Ad-Hoc Networks (VANET) with advanced cellular networks such as 5G networks and vehicular cloud concepts. 5G cellular networks provide consistent, faster and more reliable connections within the vehicular mobile nodes. By 2030, 5G networks will deliver the virtual reality content in VANET which will support vehicle navigation with real time communications capabilities, improving road safety and enhance passenger comfort.



JULY 2021 432PP
978-1-119-76183-9 CL \$225.00 (Japan)
Automotive Engineering

Finite Element Analysis

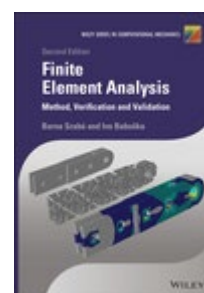
Method, Verification and Validation, 2nd Edition

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.



Designed as an accessible resource, the book has a companion website that contains a solutions manual, PowerPoint slides for instructors, and a link to finite element software. 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

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

材料科学

Rubber to Rubber Adhesion

DINESH KUMAR KOTNEES & ANIL K. BHOWMICK

This book covers various aspects of rubber to rubber adhesion. Rubber is a polymer whose glass transition temperature is well below the room temperature and hence the chains are very mobile at room and higher temperatures. This property makes this material very versatile. Rubber is used in a large number of applications ranging from underground mining to tire to space shuttle. In all these cases, compounded rubbers are used in laminates and joined. Higher the adhesion, higher will be the joint strength. The principles taught in adhesion science and technology are extensively used to prepare better joints and hence useful products. The subject of this book is important theoretically and it has practical implications as well. Rubber to rubber adhesion is all pervading. Hence, the book will be used by academicians, R & D personnel, company people, and rubber and adhesion practitioners.

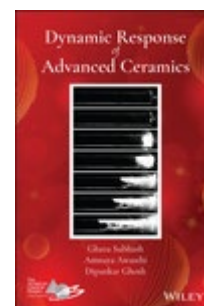
The book serves to satisfy a wide range of disciplines (polymer, materials, chemical, chemistry, mechanical etc.) and hence starts with an introduction on rubber, then characterization of rubber, rubber surface and joints and finally covers other chapters on rubber to rubber adhesion. Scientific aspects to understand the technology are highlighted. It gives a comprehensive treatment on Adhesion between Unvulcanized Elastomers, Self-healing of Elastomers, Adhesion between Compounded Elastomers by co-crosslinking, Adhesion between partially Vulcanized Compounded Rubber and partially Vulcanized Compounded Rubber, Adhesion between Vulcanized Rubber and Unvulcanized Rubber- or partially Vulcanized Rubber, and Adhesion between Vulcanized Rubber and Vulcanized Rubber.

JULY 2021 UnknownPP
978-1-119-76889-0 CL \$195.00 (Japan)
Joining, Welding and Adhesion

Dynamic Response of Advanced Ceramics

GHATU SUBHASH, AMNAYA AWASTHI & DIPANKAR GHOSH

In the last few decades, significant progress has been made in developing in-depth understanding of high strain-rate behavior of ceramic materials. The widespread use of ceramics for a variety of civilian and military applications, for example, in blast protection for armored vehicles, lightweight protective armor for soldiers etc., has invigorated new research directions in this field. The scientific discussions presented here are also applicable to a range of civilian applications including high-speed machining, cutting, and grinding of brittle materials. The book is organized into eight chapters as detailed in the following: Chapter 1 provides a brief history of ceramic materials, early approach to understanding their mechanical behavior, and motivation for studying their dynamic response. Chapter 2 focuses on experimental methods frequently deployed for assessing high strain-rate deformation and failure in brittle solids. Chapter 3 illustrates the overarching example problem of projectile impact on a confined ceramic target, which presents the complex sequence of events and mechanisms (e.g. shock propagation, dynamic fracture, fragmentation and comminution, phase transformation) central to the in-depth understanding of dynamic behavior of ceramic materials. Chapter 4 presents a broad review of experimental, analytical and computational efforts currently available in the literature on dynamic constitutive behavior of intact and damaged ceramics. Chapter 5 discusses shock response of brittle materials at strain rates in the range of 10^5 s⁻¹ and beyond. Chapter 6 describes dynamic deformation behavior of a unique class of advanced structural ceramics called icosahedral ceramics (e.g., B₄C, B₆O and BAM materials); ceramics which possess high hardness, second only to diamond-like structural solids. Chapter 7 focusses on dynamic behavior of a variety of transparent materials including chemically strengthened glass and glass ceramics (single crystal sapphire, spinels, ALON). Finally, chapter 8 presents emerging directions as well as challenges in experimental and computational domains with particular emphasis on dynamic behavior of ultrahard ceramics.



JULY 2021 448PP
978-1-119-59977-7 CL \$205.00 (Japan)
Ceramics

High Temperature Mechanical Behavior of Ceramic-Matrix Composites

LONGBIAO LI

This book presents state-of-the-art investigation on the properties of ceramic-matrix composites subjected to tensile and fatigue loading at different testing conditions. It helps designer to better design components for civil aircrafts or aero engines.



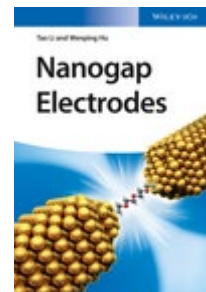
JULY 2021 450PP
978-3-527-34903-6 CL \$162.45 (Japan)
Ceramics

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.



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

Two-Dimensional Materials for Electromagnetic Shielding

CHONG MIN KOO, PRADEEP SAMBYAL & AAMIR IQBAL

This book covers knowledge on shielding mechanisms and hence the demanding physical, chemical and mechanical properties of the novel 2D materials against betrayed electromagnetic waves.

JULY 2021 256PP
978-3-527-34842-8 CL \$155.00 (Japan)
Electronic Materials

Physics, Optics, and Spectroscopy of Materials

ZEEV BURSHTAIN

This book bridges a gap that exists between the optical spectroscopists and the laser developers, and contains eighteen chapters.

The first eight chapters cover the subject of Atoms and Molecules. Chapters one and two present the main effects of light and matter interaction: light absorption, emission, and scattering, by atoms and molecules. Chapters three and four describe the energy levels in hydrogen and hydrogen-like atoms, which are the simplest atomic systems. Chapter five considers many-electron atoms, starting with helium and helium-like atoms, while chapter six considers the electronic structure of molecules, starting with the simplest and progressing to complex polyatomic molecules. The seventh and eighth chapters are devoted to classification of vibrational and rotational motions of molecules, the related energy levels scheme, and light absorption, emission and scattering.

The ten later chapters cover the subject of Dielectric Solids, Optics, and Lasers. Chapter nine presents the symmetry assumed by periodic crystals in connection to those assumed by constructed molecules. In chapter ten the propagation of electromagnetic waves in a dielectric medium are covered with chapter eleven dealing with group-theoretical analysis of the internal vibrations. Chapters twelve and thirteen provide a survey of many electron atomic and ionic energy states structure, continued by the energy states splitting when atoms and/or ions occupy crystalline sites of known point symmetry, and the contribution of non-radiative transitions in those atoms and ions, namely when the transitions induce and enhance crystalline oscillations. Chapter fourteen provides a basic overview of the laser and its comprising components and chapter fifteen elaborates on three important subjects in laser beams optics. The sixteenth chapter describes methods to achieve fast Q-switching in laser cavities. Chapter seventeen describes and analyses various non-linear effects occurring in non-centro-symmetric crystals. The final chapter (eighteen) provides examples of several specific laser systems used in industry and scientific research.

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

ナノテクノロジー

Metal Oxide Nanoparticles

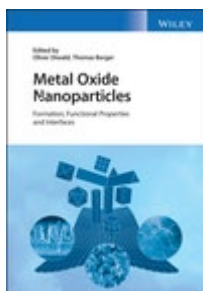
Formation, Functional Properties and Interfaces

2 Volume Set

EDITOR OLIVER DIWALD & EDITOR THOMAS BERGER

A complete nanoparticle resource for chemists and industry professionals

Metal oxide nanoparticles are integral to a wide range of natural and technological processes--from mineral transformation to electronics. Additionally, the fields of engineering, electronics, energy technology, and electronics all utilize metal oxide nanoparticle powders. *Metal Oxide Nanoparticles: Formation, Functional Properties and Interfaces* presents readers with the most relevant synthesis and formulation approaches for using metal oxide nanoparticles as functional materials. It covers common processing routes and the assessment of physical and chemical particle properties through comprehensive and complementary characterization methods.



This book can serve as an introduction to nanoparticle formulation, their interface chemistry and functional properties at the nanoscale. It can also act as an in-depth resource, sharing detailed information on advanced approaches to the physical, chemical, surface, and interface characterization of metal oxide nanoparticle powders and dispersions.

With one book, academic researchers, industrial chemists, and PhD students can all gain insight into the synthesis, properties, and applications of metal oxide nanoparticles.

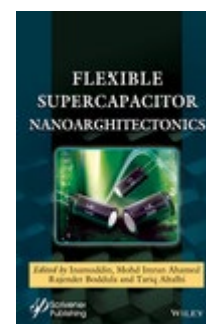
JULY 2021 632PP
978-1-119-43674-4 CL \$250.00 (Japan)
Nanomaterials

Flexible Supercapacitor Nanoarchitectonics

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)

The 21 chapters in this book presents a comprehensive overview of flexible supercapacitors using engineering nanoarchitectures mediated by functional nanomaterials and polymers as electrodes, electrolytes, and separators, etc. for advanced energy applications. The various aspects of flexible supercapacitors, including capacitor electrochemistry, evaluating parameters, operating conditions, characterization techniques, different types of electrodes, electrolytes, and flexible substrates are covered. This is probably the first book of its type which systematically describes the recent developments and progress in flexible supercapacitor technology, and will be very helpful for generating new and innovative ideas in the field of energy storage material for wearable/flexible industry applications.



JULY 2021 UnknownPP
978-1-119-71145-2 CL \$249.00 (Japan)
Manipulation of Nanosystems

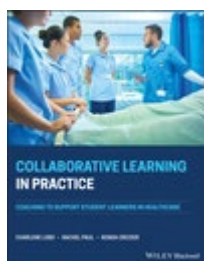
ナーシング

Collaborative Learning in Practice

Coaching to Support Student Learners in Healthcare

CHARLENE LOBO, RACHEL PAUL & KENDA CROZIER

Cited in the 2015 Willis review on nurse education as an exemplary system-wide approach for supporting learning in practice, *Collaborative Learning in Practice* (CLiP) is an innovative coaching model that empowers students to take the lead in their practice through creating positive learning cultures.



Collaborative Learning in Practice provides a detailed description of the CLiP model and explains how coaching can be integrated into a range of learning conversations. Written by an experienced team of practitioners, this unique text describes the theoretical basis of the CLiP model, highlights potential pitfalls and successes, and offers practical guidance on implementation. A wealth of real-world case studies demonstrates how the CLiP model works in a range of professional and practice settings, considering healthcare education, research and leadership. This authoritative book:

- Provides an overview of the innovative CLiP model of practice-based learning, linked to the NMC standards for student supervision and assessment
- Offers numerous real-life examples of how to implement and evaluate CLiP in practice
- Explores the use of reverse mentoring to update and share knowledge collaboratively
- Discusses how coaching approaches such as GROW and OSCAR can enhance learning experiences
- Includes access to online learning tools including self-assessment tests, additional practical scenarios and case studies, and links to further reading

Developing practitioner knowledge and skill through an accessible, reader-friendly approach, *Collaborative Learning in Practice* is an essential resource for nursing and allied healthcare educators, nursing and healthcare students, and practice mentors, supervisors, and assessors in clinical environments.

JULY 2021 264PP
978-1-119-69536-3 PB \$45.00 (Japan)
Nursing Education & Professional Development

物理学

Galaxies

Formation and Evolution

EDITOR FRANCOISE COMBES

Galaxies are vast ensembles of stars, gas and dust, embedded in dark matter halos. They are the basic building blocks of the Universe, gathered in groups, clusters and super-clusters. They exist in many forms, either as spheroids or disks. Classifications, such as the Hubble sequence (based on mass concentration and gas fraction) and the color magnitude diagram (which separates a blue cloud from a red sequence) help to understand their formation and evolution. Galaxies spend a large part of their lives in the blue cloud, forming stars as spiral or dwarf galaxies. Then, via a mechanism that is still unclear, they stop forming stars and quietly end in the red sequence, as spheroids. This transformation may be due to galaxy interactions, or because of the feedback of active nuclei, through the energy released by their central super-massive black holes. These mechanisms could explain the history of cosmic star formation, the rate of which was far greater in the first half of the Universe's life. *Galaxies* delves into all of these surrounding subjects in six chapters written by dedicated, specialist astronomers and researchers in the field, from their numerical simulations to their evolutions.



JULY 2021 288PP
978-1-78945-012-5 CL \$165.00 (Japan)
Astronomy & Astrophysics

Space Physics and Aeronomy, 5 Volumes Set

EDITOR-IN-CHIEF YONGLIANG ZHANG & EDITOR-IN-CHIEF LARRY J. PAXTON

Johns Hopkins University; Johns Hopkins University

The *Space Physics and Aeronomy* collection is a five-volume set of books presenting the latest scientific observations, models, and theories.

Arranged sequentially, the books examine the Sun and the solar wind, magnetospheres in the Solar system, Earth's ionosphere, Earth's upper atmosphere, and the effects of space weather.



SERIES: GEOPHYSICAL MONOGRAPH SERIES

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Radiation Detection and Measurement

5th Edition

GLENN F. KNOLL

University of Michigan, Ann Arbor

Radiation Detection and Measurement, Fifth Edition, provides authoritative information on the instruments and techniques used for the detection and spectroscopy of ionizing radiation originating in atomic or nuclear processes. The most comprehensive textbook available on the subject, this classic volume contains detailed yet student-friendly coverage of radiation sources and interactions, counting statistics and error prediction, Geiger-Mueller Counters, ionization chambers, gamma ray detectors, and more.

The fifth edition contains new and revised material throughout, including up-to-date coverage of current scientific literature and leading-edge detection and measurement technologies. The text clearly explains the principles of operation and basic characteristics of a wide range of detector systems, including organic and inorganic scintillators, photomultiplier tubes, high-pressure xenon spectrometers, and lithium-drifted silicon detectors. Also available in enhanced eBook format, this leading textbook is ideal for first courses in nuclear instrumentation or radiation measurements, and a valuable review and reference guide for scientists and engineers actively involved in radiation measurements.

JULY 2021 UnknownPP
978-1-119-29540-2 PB \$212.95 (Japan)
NUCLEAR & HIGH ENERGY PHYSICS

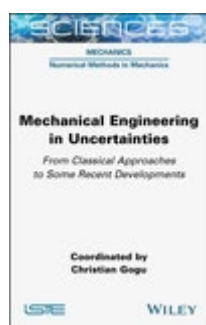
哲学

Mechanical Engineering in Uncertainties From Classical Approaches to Some Recent Developments

COMPILED BY CHRISTIAN GOGU

Considering the uncertainties in mechanical engineering in order to improve the performance of future products or systems is becoming a competitive advantage, sometimes even a necessity, when seeking to guarantee an increasingly high safety requirement.

Mechanical Engineering in Uncertainties deals with modeling, quantification and propagation of uncertainties. It also examines how to take into account uncertainties through reliability analyses and optimization under uncertainty. The spectrum of the methods presented ranges from classical approaches to more recent developments and advanced methods. The methodologies are illustrated by concrete examples in various fields of mechanics (civil engineering, mechanical engineering and fluid mechanics). This book is intended for both (young) researchers and engineers interested in the treatment of uncertainties in mechanical engineering.



JULY 2021 352PP
978-1-78945-010-1 CL \$165.00 (Japan)
Classical & Fluid Mechanics

The Palliative Society

Pain Today

BYUNG-CHUL HAN & TRANSLATED BY DANIEL STEUER

READERSHIP: Students and scholars in critical theory, social and political theory, philosophy and psychoanalysis; the interested general reader

JULY 2021 76PP
978-1-5095-4723-4 CL \$59.95 (Japan)
978-1-5095-4724-1 PB \$16.95 (Japan)
General Philosophy

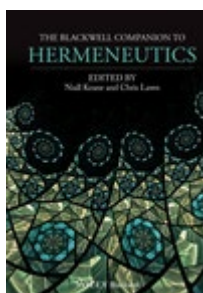


The Blackwell Companion to Hermeneutics

EDITOR NIALL KEANE & EDITOR CHRIS LAWN

Mary Immaculate College, University of Limerick, Ireland;
Mary Immaculate College, University of Limerick, Ireland

A Companion to Hermeneutics is a collection of original essays from leading international scholars that provide a definitive historical and critical compendium of philosophical hermeneutics.



- Offers a definitive historical, systematic, and critical compendium of hermeneutics
- Represents state-of-the-art thinking on the major themes, topics, concepts and figures of the hermeneutic tradition in philosophy and those who have influenced hermeneutic thought, including Kant, Hegel, Schleiermacher, Dilthey, Heidegger, Gadamer, Ricoeur, Foucault, Habermas, and Rorty
- Explores the art and theory of interpretation as it intersects with a number of philosophical and inter-disciplinary areas, including humanism, theology, literature, politics, education and law
- Features contributions from an international cast of leading and upcoming scholars, who offer historically informed, philosophically comprehensive, and critically astute contributions in their individual fields of expertise
- Written to be accessible to interested non-specialists, as well as professional philosophers

JULY 2021 640PP
978-1-119-10052-2 PB \$45.95 (Japan)
9781118529638 CL \$202.75 (Japan) Published, JAN 2016
Continental Philosophy

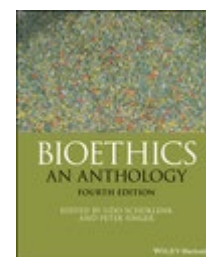
Bioethics

An Anthology, 4th Edition

UDO SCHÜKLENK, HELGA KUHSE & PETER SINGER

Monash University ; Princeton University

The new edition of the classic collection of key readings in bioethics, fully updated to reflect the latest developments and main issues in the field



For more than two decades, *Bioethics: A n Anthology* has been widely regarded as the definitive single-volume compendium of seminal readings on both traditional and cutting-edge ethical issues in biology and medicine. Acclaimed for its scope and depth of coverage, this landmark work brings together compelling writings by internationally-renowned bioethicists to help readers develop a thorough understanding of the central ideas, critical issues, and current debates in the field.

Now fully revised and updated, the fourth edition contains a wealth of new content on ethical questions and controversies related to the COVID-19 pandemic, advances in CRISPR gene editing technology, physician-assisted death, public health and vaccinations, transgender children, medical aid in dying, the morality of ending the lives of newborns, and much more. Throughout the new edition, carefully selected essays explore a wide range of topics and offer diverse perspectives that underscore the interdisciplinary nature of bioethical study.

Bioethics: An Anthology, Fourth Edition remains a must-have resource for all students, lecturers, and researchers studying the ethical implications of the health-related life sciences, and an invaluable reference for doctors, nurses, and other professionals working in health care and the biomedical sciences.

SERIES: BLACKWELL PHILOSOPHY ANTHOLOGIES

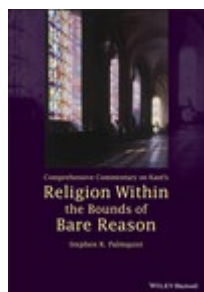
SEPTEMBER 2021 UnknownPP
978-1-119-63511-6 PB \$64.95 (Japan)
BIOETHICS & MEDICAL ETHICS

Comprehensive Commentary on Kant's Religion Within the Bounds of Bare Reason

STEPHEN R. PALMQUIST

Hong Kong Baptist University, Hong Kong

Palmquist's *Commentary* provides the first definitive clarification on Kant's Philosophy of Religion in English; it includes the full text of Pluhar's translation, interspersed with explanations, providing both a detailed overview and an original interpretation of Kant's work.



- Offers definitive, sentence-level commentary on Kant's *Religion within the Bounds of Bare Reason*
- Presents a thoroughly revised version of Pluhar's translation of the full text of Kant's *Religion*, including detailed notes comparing the translation with the others still in use today
- Identifies most of the several hundred changes Kant made to the second (1794) edition and unearths evidence that many major changes were responses to criticisms of the first edition
- Provides both a detailed overview and original interpretation of Kant's work on the philosophy of religion
- Demonstrates that Kant's arguments in *Religion* are not only cogent, but have clear and profound practical applications to the way religion is actually practiced in the world today
- Includes a glossary aimed at justifying new translations of key technical terms in *Religion*, many of which have previously neglected religious and theological implications

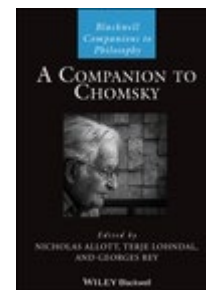
JULY 2021 640PP
978-1-119-09023-6 PB \$45.95 (Japan)
9781118619209 CL \$ 202.75 (Japan) Published, DEC 2015
17th & 18th Century Philosophy

A Companion to Chomsky

EDITOR GEORGES REY, EDITOR NICHOLAS ALLOTT & EDITOR
TERJE LOHNDAL

University of Maryland

Noam Chomsky is first and foremost a linguist, but his revolutionary ideas about grammar have had a profound impact upon philosophy and the new field of cognitive science that emerged in large part from his work. Balancing theoretical rigor with accessibility to the non-specialist, this collection of 43 original essays from a diverse international team of linguists and philosophers offers comprehensive coverage of his contributions to universal grammar, language acquisition, linguistic diversity, semantics and speech pragmatics, as well as to philosophy of language, science and mind.



Special efforts have been made to explain technical terms and issues as they arise.

A new addition to the acclaimed *Wiley Blackwell Companions to Philosophy* series, *A Companion to Chomsky* is an indispensable resource for philosophers, linguists, psychologists, advanced undergraduate and graduate students, and general readers with interest in the life and legacy of Noam Chomsky.

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From Mao to Now

DAVID SHAMBAUGH

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Asian Politics

**Israel**

ALAN DOWTY

Professor Emeritus at the University of Notre Dame and former Kahanoff Chair of Israel Studies at the University of Calgary

READERSHIP: General readers curious about Israel, as well as students of Middle Eastern history and politics

SERIES: POLITY HISTORIES

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Bitskrieg

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JOHN ARQUILLA

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978-1-5095-4363-2 PB \$22.95 (Japan)

Military / Security / Intelligence /



Urban Warfare in the Twenty-First Century

ANTHONY KING

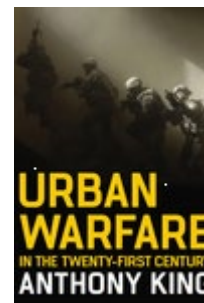
READERSHIP: Military history readers as well as students of war and security studies and professionals in military education institutions

JULY 2021 288PP

978-1-5095-4365-6 CL \$69.95 (Japan)

978-1-5095-4366-3 PB \$26.95 (Japan)

Military / Security / Intelligence



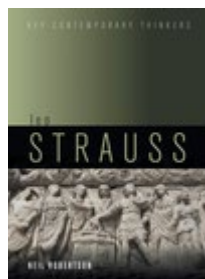
心理学

Leo Strauss

An Introduction

NEIL G. ROBERTSON

READERSHIP: Students and scholars of the history of political thought, political theory, philosophy, the history of philosophy, classics, intellectual history and conservatism.



SERIES: KEY CONTEMPORARY THINKERS

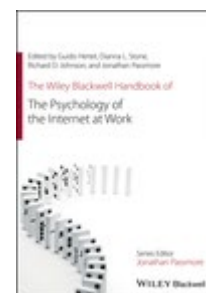
JULY 2021 220PP
978-1-5095-1630-8 CL \$69.95 (Japan)
978-1-5095-1631-5 PB \$24.95 (Japan)
Political Philosophy & Theory

The Wiley Blackwell Handbook of the Psychology of the Internet at Work

EDITOR GUIDO HERTEL, EDITOR DIANNA L. STONE, EDITOR
RICHARD D. JOHNSON & SERIES EDITOR JONATHAN PASSMORE

University of Central Florida; University of East London, UK

This authoritative *Wiley Blackwell Handbook in Organizational Psychology* focuses on individual and organizational applications of Internet-enabled technologies within the workplace. The editors have drawn on their collective experience in collating thematically structured material from leading writers based in the US, Europe, and Asia Pacific. Coinciding with the growing international interest in the application of psychology to organizations, the work offers a unique depth of analysis from an explicitly psychological perspective. Each chapter includes a detailed literature review that offers academics, researchers, scientist-practitioners, and students an invaluable frame of reference. Coverage is built around competencies set forth by regulatory agencies including the APA and BPS, and includes E-Recruiting, E-Leadership, and E-Learning; virtual teams; cyberloafing; ergonomics of human-computer interaction at work; permanent accessibility and work-life balance; and trust in online environments.



SERIES: WILEY-BLACKWELL HANDBOOKS IN ORGANIZATIONAL PSYCHOLOGY

JULY 2021 550PP
978-1-119-25622-9 PB \$57.25 (Japan)
9781119256144 CL \$202.75 (Japan) Published, NOV 2017
Organizational & Industrial Psychology

The Wiley Handbook of What Works in Child Maltreatment

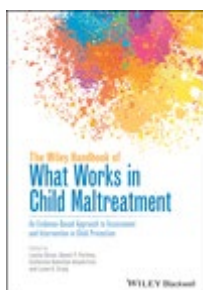
An Evidence-Based Approach to Assessment and Intervention in Child Protection

EDITOR LOUISE DIXON, EDITOR DANIEL F. PERKINS, EDITOR CATHERINE HAMILTON-GIACHRITSIS, UNITED KINGDOM & EDITOR LEAM A. CRAIG

University of Birmingham, UK; School of Psychology,
University of Birmingham, UK; Forensic Psychology Practice Ltd, UK

A comprehensive guide to empirically supported approaches for child protection cases

The Wiley Handbook of What Works in Child Maltreatment offers clinicians, psychologists, psychiatrists and other professionals an evidence-based approach to best professional practice when working in the area of child protection proceedings and the provision of assessment and intervention services in order to maximize the well-being of young people. It brings together a wealth of knowledge from expert researchers and practitioners, who provide a comprehensive overview of contemporary work informing theory, assessment, service provision, rehabilitation and therapeutic interventions for children and families undergoing care proceedings. Coverage includes theoretical perspectives, insights on the prevalence and effects of child neglect and abuse, assessment, children's services, and interventions with children, victims and families.



JULY 2021 488PP
978-1-118-97612-8 PB \$52.00 (Japan)
9781118976173 CL \$64.95 (Japan) Published, JUNE 2017
Clinical Psychology

The Adult Psychotherapy Progress Notes Planner

6th Edition

ARTHUR E. JONGSMA JR., TIMOTHY J. BRUCE, PEORIA, DAVID J. BERGHUIS, GRAND RAPIDS & KATHERINE PASTOOR

Reduce paperwork and increase efficiency with this indispensable companion to the *Complete Adult Psychotherapy Treatment Planner*, Sixth Edition



The newly revised sixth edition of *The Adult Psychotherapy Progress Notes Planner*, delivers complete prewritten session and patient presentation descriptions for each behavioral problem described in the *Complete Adult Psychotherapy Treatment Planner*, Sixth Edition. These prewritten progress notes can easily be adapted to fit a particular client need or treatment situation.

The Progress Notes Planner will save you hours of time-consuming paperwork while allowing you to retain the flexibility you need to adapt your notes to each individual patient. The *Planner* is organized around the 44 behaviorally based problems found in the sixth edition of the *Complete Adult Psychotherapy Treatment Planner*, including depression, chronic pain, anxiety, and more.

The Progress Notes Planner identifies the latest evidence-based treatment clinical interventions with language that satisfies the requirements of managed care and accrediting agencies, like CARF, TJC, COA, and the NCQA. Perfect for any professional who performs psychotherapy with the *Complete Adult Psychotherapy Treatment Planner*, Sixth Edition, the sixth edition of *The Adult Psychotherapy Progress Notes Planner* will also earn a place on the bookshelves of professors and students of psychotherapy programs and courses, as well as any university or private professional school that trains counselors or psychotherapists.

SERIES: PRACTICEPLANNERS

JULY 2021 576PP
978-1-119-69118-1 PB \$67.50 (Japan)
PSYCHOTHERAPY & COUNSELING

ポリマーサイエンス

The Complete Adult Psychotherapy Treatment Planner

6th Edition

ARTHUR E. JONGSMA JR., L. MARK PETERSEN & TIMOTHY J. BRUCE, PEORIA

University of Illinois College of Medicine in Peoria, Illinois.

The revised edition of the clinicians' time-saving Psychotherapy Treatment Planner

Revised and updated, the sixth edition of *The Complete Adult Psychotherapy Treatment Planner* offers clinicians a timesaving, evidence-based guide that helps to clarify, simplify and accelerate the treatment planning process so they can spend less time on paperwork and more time with clients. The authors provide all the elements necessary to quickly and easily develop formal, customizable treatment plans that satisfy the demands of HMOs, managed-care companies, third-party payers and state and federal agencies.



This revised edition includes new client Short-Term Objectives and clinician Therapeutic Interventions that are grounded in evidence-based treatment wherever research data provides support to an intervention approach. If no research support is available a best practice standard is provided. This new edition also offers two new presenting problem chapters (Loneliness and Opioid Use Disorder) and the authors have updated the content throughout the book to improve clarity, conciseness and accuracy. Written for psychologists, therapists, counselors, social workers, addiction counselors, psychiatrists, and other mental health professionals, *The Complete Adult Psychotherapy Treatment Planner, Sixth Edition* has been updated to contain the most recent interventions that are evidence-based.

SERIES: PRACTICEPLANNERS

JULY 2021 704PP
978-1-119-62993-1 PB \$70.00 (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.

JULY 2021 785PP
978-1-119-71138-4 CL \$275.00 (Japan)
Biopolymers

セルフヘルプ

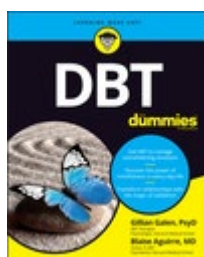
DBT For Dummies

GILLIAN GALEN, LEXINGTON & BLAISE AGUIRRE, LEXINGTON

Harvard Medical School; Harvard Medical School

Keep calm, be skillful--and take control!

Dialectical Behavior Therapy (DBT) is one of the most popular--and most effective--treatments for mental health conditions that result from out-of-control emotions. Combining elements of Cognitive Behavior Therapy with Eastern mindfulness practice, DBT was initially used as a powerful treatment to address the suffering associated with borderline personality disorder. It has since proven to have positive effects on many other mental health conditions and is frequently found in non-clinical settings, such as schools. Whether you struggle with depression, anger, phobias, disordered eating, or want to have a better understanding of emotions and how to focus and calm your mind, DBT practice serves the needs of those facing anything from regular life challenges to severe psychological distress.



Written in a no-jargon, friendly style by two of Harvard Medical School's finest, *DBT For Dummies* shows how DBT can teach new ways not just to reverse, but to actively take control of self-destructive behaviors and negative thought patterns, allowing you to transform a life of struggle into one full of promise and meaning. Used properly and persistently, the skills and strategies in this book will change your life: when you can better regulate emotions, interact effectively with people, deal with stressful situations, and use mindfulness on a daily basis, it's easier to appreciate what's good in yourself and the world, and then act accordingly.

Many of life's problems are not insurmountable even if they appear to be. Life can get better, if you are willing to live it differently. Get *DBT For Dummies* and discover the proven methods that will let you take back control--and build a brighter, more capable, and promising future!

JULY 2021 384PP
978-1-119-73012-5 PB \$24.99 (Japan)
General Self-Help

社会学

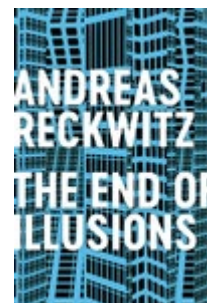
The End of Illusions

Politics, Economy, and Culture in Late Modernity

ANDREAS RECKWITZ & TRANSLATED BY VALENTINE A. PAKIS

READERSHIP: Students and scholars in sociology, cultural studies and critical theory.

JULY 2021 244PP
978-1-5095-4569-8 CL \$69.95 (Japan)
978-1-5095-4570-4 PB \$24.95 (Japan)
General Sociology

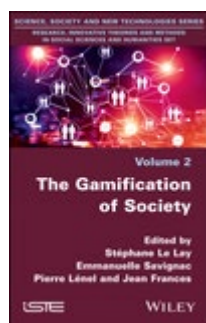


The Gamification of Society

EDITOR STÉPHANE LE LAY, EDITOR EMMANUELLE SAVIGNAC,
EDITOR JEAN FRANCES & EDITOR PIERRE LÉNEL

Institut de Psychodynamique du Travail, France; Université de la Sorbonne Nouvelle; CNAM-CNRS, France; ENSTA Bretagne, France

The applications of gamification and the contexts in which game elements can be successfully incorporated have grown significantly over the years. They now include the fields of health, education, work, the media and many others. However, the human and social sciences still neglect the analysis and critique of gamification.



Research conducted in this area tends to focus on game objects and not gamification's logic as its ideological dimension. Considering that the game, as a model and a reference, laden with social value, deserves to be questioned beyond its objects, *The Gamification of Society* gathers together texts, observations and criticisms that question the influence that games and their "mechanics" have on wider society. The empirical research presented in this book (examining designers' practices, early childhood, political action, the quantified self, etc.) also probes several different national contexts - those of Norway, Belgium, the United States and France, among others.

JULY 2021 224PP
978-1-78630-645-6 CL \$165.00 (Japan)
General Sociology

What is Environmental Sociology?

DIANA STUART

READERSHIP: undergraduate and lower-level graduate classes in environmental sociology and related sociological and environmental studies courses.

SERIES: WHAT IS SOCIOLOGY?

JULY 2021 176PP
978-1-5095-4438-7 CL \$59.95 (Japan)
978-1-5095-4439-4 PB \$19.95 (Japan)
Environmental Sociology



Sustainable Futures

An Agenda for Action

RAPHAEL KAPLINSKY

University of Sussex

READERSHIP: advanced students and scholars of sociology, development studies, environmental studies and politics

JULY 2021 264PP

978-1-5095-4782-1 CL \$69.95 (Japan)

978-1-5095-4783-8 PB \$26.95 (Japan)

Sociology of Economics



Social Policy

A Critical and Intersectional Analysis

FIONA WILLIAMS

READERSHIP: scholars and upper-level students of social policy and welfare in departments of social policy, sociology, and political science.

JULY 2021 248PP

978-1-5095-4038-9 CL \$69.95 (Japan)

978-1-5095-4039-6 PB \$28.95 (Japan)

Social Policy



統計学

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.

JULY 2021 400PP
978-1-119-71668-6 CL \$130.00 (Japan)
Probability & Mathematical Statistics

Geostatistical Functional Data Analysis

JORGE MATEU MAHIQUES & RAMON GIRALDO

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

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

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

SERIES: WILEY SERIES IN PROBABILITY AND STATISTICS

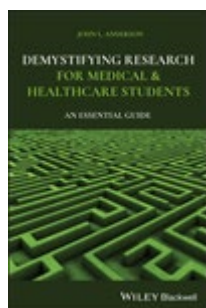
JULY 2021 300PP
978-1-119-38784-8 CL \$120.00 (Japan)
Environmental Statistics & Environmetrics

Demystifying Research for Medical and Healthcare Students

An Essential Guide

JOHN L. ANDERSON

All healthcare students need to understand research methods to be able to understand research articles and to actively engage in research where necessary. Most clinical programs include research training within their courses, and many students are required to undertake an assessed research project—both at undergraduate and postgraduate levels. Breaking down the jargon barriers of research methods, and designed for those new to the world of research, *Demystifying Research* is a straightforward and highly accessible guide to fundamental research methods, approaches, and skills.



This student-friendly resource describes quantitative and qualitative research approaches, mixed research methods, research ethics and governance, research skills and more. Step-by-step, students learn to appraise research in scholarly articles, design a project, and conduct research in the lab, in clinical practice, and other real-life situations. Technical jargon and classic research are explained in plain English, while relevant theory is illustrated through relatable examples of research in practice. Designed to make learning about research easy, this valuable guide:

- Explains basic research methods in a direct and engaging style
- Breaks research methods down into manageable, easy-to-digest pieces
- Defines what research is, and provides an overview of its methods and methodologies
- Covers all key areas of research, including observational and experimental approaches, and clinical trials
- Includes real-life examples of successful student research projects

Demystifying Research is a must-have for undergraduate and postgraduate medical, nursing, other healthcare and social sciences students, as well as professionals looking to refresh their knowledge.

JULY 2021 224PP
978-1-119-70137-8 PB \$37.50 (Japan)
Medical Statistics & Epidemiology

Applied Univariate, Bivariate, and Multivariate Statistics Using Python

A Beginner's Guide to Advanced Data Analysis

DANIEL J. DENIS

A practical, "how-to" reference for anyone performing essential statistical analyses and data management tasks in Python

Applied Univariate, Bivariate, and Multivariate Statistics Using Python delivers a comprehensive introduction to a wide range of statistical methods performed using Python in a single, one-stop reference. The book contains user-friendly guidance and instructions on using Python to run a variety of statistical procedures without getting bogged down in unnecessary theory. Throughout, the author emphasizes a set of computational tools used in the discovery of empirical patterns, as well as several popular statistical analyses and data management tasks that can be immediately applied.

The datasets used in the book are small enough to easily be entered into Python manually, although they can also be downloaded for free from www.datapsyc.com. Only minimal knowledge of statistics is assumed, and the book is perfect for those seeking an easily accessible toolkit for statistical analysis with Python. *Applied Univariate, Bivariate, and Multivariate Statistics Using Python* represents the fastest way to learn how to analyze data with Python.

Perfect for undergraduate and graduate students in the social, behavioral, and natural sciences, *Applied Univariate, Bivariate, and Multivariate Statistics Using Python* will also earn a place in the libraries of researchers and data analysts seeking a quick go-to resource for univariate, bivariate, and multivariate analysis in Python.

JULY 2021 304PP
978-1-119-57814-7 CL \$125.00 (Japan)
Data Analysis

Data Science in Theory and Practice

Techniques for Big Data Analytics and Complex Data Sets

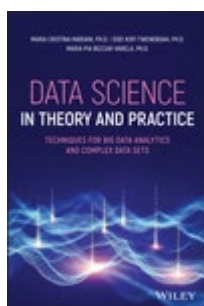
MARIA C. MARIANI, OSEI KOFI TWENEBOAH & MARIA PIA BECCAR-VARELA

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.



Using Predictive Analytics to Improve Healthcare Outcomes

EDITOR JOHN W. NELSON, EDITOR JAYNE FELGEN & 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. They provide tools for anyone in any role who aims to improve healthcare outcomes.

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.

JULY 2021 UnknownPP
978-1-119-74775-8 CL \$130.00 (Japan)
Data Analysis

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

Applied Univariate, Bivariate, and Multivariate Statistics

Understanding Statistics for Social and Natural Scientists, With Applications in SPSS and R
2nd Edition

DANIEL J. DENIS

AN UPDATED GUIDE TO STATISTICAL MODELING TECHNIQUES USED IN THE SOCIAL AND BEHAVIORAL SCIENCES

The revised and updated second edition of *Applied Univariate, Bivariate, and Multivariate Statistics: Understanding Statistics for Social and Natural Scientists, with Applications in SPSS and R* contains an accessible introduction to statistical modeling techniques commonly used in the social and behavioral sciences. The text offers a blend of statistical theory and methodology and reviews both the technical and theoretical aspects of good data analysis.

Featuring applied resources at various levels, the book includes statistical techniques using software packages such as R and SPSS®. To promote a more in-depth interpretation of statistical techniques across the sciences, the book surveys some of the technical arguments underlying formulas and equations. The thoroughly updated edition includes new chapters on nonparametric statistics and multidimensional scaling, and expanded coverage of time series models. The second edition has been designed to be more approachable by minimizing theoretical or technical jargon and maximizing conceptual understanding with easy-to-apply software examples.

Written for students of social and applied sciences, *Applied Univariate, Bivariate, and Multivariate Statistics, Second Edition* offers a text to statistical modeling techniques used in social and behavioral sciences.

JULY 2021 576PP
978-1-119-58304-2 CL \$130.00 (Japan)
MULTIVARIATE ANALYSIS



Handbook of Web Surveys

2nd Edition

SILVIA BIFFIGNANDI & JELKE BETHLEHEM

Statistics Netherlands

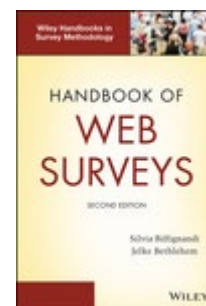
The updated, must-have guide for creating and implementing web surveys

Revised and thoroughly updated, the second edition of *Handbook of Web Surveys* offers a practical and comprehensive guide for creating and conducting effective web surveys. The authors noted experts on the topic, include a review the Blaise system (which has been around for 30 years) and provide information on the most recent developments and techniques in the field. The book illustrates the steps needed to develop effective web surveys and explains how the survey process should be carried out. It also examines the aspects of sampling and presents a number of sampling designs.

The book includes ideas for overcoming possible errors in measurement and nonresponse. The authors also compare the various methods of data collection (face-to-face, telephone, mail, and mobile surveys) and discuss their advantages and disadvantages. Critical information for designing questionnaires for mobile devices is also provided. Filled with real-world examples, *Handbook of Web Surveys* discuss the key concepts, methods, and techniques of effective web surveys.

Written for researchers in government, business, economics, and social scientists, the second edition of *Handbook of Web Surveys* provides an introduction to web surveys and the various methods and techniques.

JULY 2021 624PP
978-1-119-37168-7 CL \$165.00 (Japan)
Survey Research Methods & Sampling



Fundamentals of Quality Control and Improvement

5th Edition

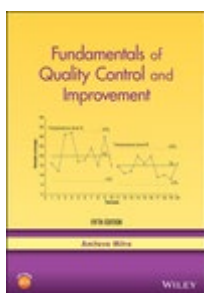
AMITAVA MITRA

Auburn University

The newest edition of an insightful and practical statistical approach to quality control and management

In the newly revised and thoroughly updated Fifth Edition of *Fundamentals of Quality Control and Improvement*, accomplished academic, consultant, and author

Dr. Amitava Mitra delivers a comprehensive and quantitative approach to quality management techniques. The book demonstrates how to integrate statistical concepts with quality assurance methods, incorporating modern ideas, strategies, and philosophies of quality management.



You'll discover experimental design concepts and the use of the Taguchi method to incorporate customer needs, improve lead time, and reduce costs. The new edition also includes brand-new case studies at the end of several chapters, references to the statistical software Minitab 19, and chapter updates that add discussions of trending and exciting topics in quality control.

The book includes access to supplementary material for instructors consisting of a new instructor's solutions manual and PowerPoint slides, as well as access to data sets for all readers.

Perfect for upper-level undergraduate and graduate students in quality control and improvement, the Fifth Edition of *Fundamentals of Quality Control and Improvement* will also earn a place in the libraries of business students and those undertaking training programs in Six Sigma.

JULY 2021 800PP
978-1-119-69233-1 CL \$156.00 (Japan)
Quality, Productivity & Reliability

Statistical Quality Control

Using MINITAB, R, JMP and Python

BHISHAM C. GUPTA

University of Southern Maine

Provides a basic understanding of statistical quality control (SQC) and demonstrates how to apply the techniques of SQC to improve the quality of products in various sectors



This book introduces Statistical Quality Control and the elements of Six Sigma Methodology, illustrating the widespread applications that both have for a multitude of areas, including manufacturing, finance, transportation, and more. It places emphasis on both the theory and application of various SQC techniques and offers a large number of examples using data encountered in real life situations to support each theoretical concept. *Statistical Quality Control: Using MINITAB, R, JMP and Python* begins with a brief discussion of the different types of data encountered in various fields of statistical applications and introduces graphical and numerical tools needed to conduct preliminary analysis of the data. It then discusses the basic concept of statistical quality control (SQC) and Six Sigma Methodology and examines the different types of sampling methods encountered when sampling schemes are used to study certain populations. The book also covers Phase I Control Charts for variables and attributes; Phase II Control Charts to detect small shifts; the various types of Process Capability Indices (CPI); certain aspects of Measurement System Analysis (MSA); various aspects of PRE-control; and more. *Statistical Quality Control: Using MINITAB, R, JMP and Python* is an excellent book for students studying engineering, statistics, management studies, and other related fields and who are interested in learning various techniques of statistical quality control. It also serves as a desk reference for practitioners who work to improve quality in various sectors, such as manufacturing, service, transportation, medical, oil, and financial institutions. Its also useful for those who use Six Sigma techniques to improve the quality of products in such areas.

JULY 2021 400PP
978-1-119-67163-3 CL \$125.00 (Japan)
Quality, Productivity & Reliability

テストプレップ

Series 7 Exam For Dummies

5th Edition

STEVEN M. RICE, HAUPPAUGE

Empire Stockbroker Training Institute

The Series 7 is the must-pass exam for aspiring securities professionals, and *Series 7 Exam For Dummies, 5th Edition* is the study tool you need to help you earn that coveted certification. It's filled with tips and strategies for success! And with six online practice tests and brand new chapter quizzes, you'll find plenty of opportunities to test your knowledge.



JULY 2021 UnknownPP
978-1-119-79683-1 PB \$29.99 (Japan)
TEST PREP GENERAL

(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.

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.

JULY 2021 UnknownPP
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.

Coverage of all of the exam topics in the book means you'll be ready for:

- 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
- Software Development Security

JULY 2021 UnknownPP
978-1-119-78623-8 PB \$70.00 (Japan)
CERTIFICATION (MSCE, NOVELL, ETC.)

獣医学

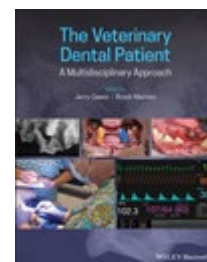
The Veterinary Dental Patient: A Multidisciplinary Approach

JERZY GAWOR & BROOK A. NIEMIEC

American Veterinary Dental College, California

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

The Veterinary Dental Patient: A Multidisciplinary Approach helps veterinarians understand the dental aspects of every canine and feline patient and shows them how to effectively manage their oral health. It also provides guidance to the rest of the veterinary team so they can offer a coordinated approach when recommending and performing veterinary dentistry as a regular part of general practice.



Edited by two prominent veterinary dentists who are Board Certified in both Europe and the United States, the text includes the latest information on safe anesthetic and monitoring protocols, accurate diagnosis and management, and referring patients to specialists. Chapters cover: establishing a dental presence in general veterinary practice; nutrition, oral health, and feeding dental patients; local, regional, and systemic complications of dental diseases; pain management; ophthalmic considerations; common situations for malpractice and mistakes; oral and maxillofacial surgery; extraction techniques and equipment; drug dosages and more. The book also offers several helpful appendixes. *The Veterinary Dental Patient: A Multidisciplinary Approach* is an essential book for all vets in general small animal practice as well as the wider veterinary team, including managers, veterinary nurses and technicians, and administrative staff.

JULY 2021 400PP
978-1-118-97473-5 CL \$100.00 (Japan)
Veterinary Dentistry

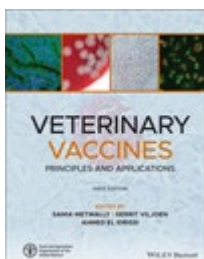
Veterinary Vaccines

Principles and Applications

EDITOR SAMIA METWALLY, EDITOR GERRIT VILJOEN & EDITOR AHMED EL IDRISSI

Provides a concise and authoritative reference on the use of vaccines against diseases of livestock

Compiled by Senior Animal Health Officers at The Food and Agriculture Organization of the United Nations, and with contributions from international leading experts, *Veterinary Vaccines: Principles and Applications* is a concise and authoritative reference featuring easily readable reviews of the latest research in vaccinology and vaccine immune response to pathogens of major economic impact to livestock.



It covers advice and recommendations for vaccine production, quality control, and effective vaccination schemes including vaccine selection, specifications, vaccination programs, vaccine handling in the field, application, failures, and assessment of herd protection. In addition, the book presents discussions on the current status and potential future developments of vaccines and vaccination against selected transboundary animal diseases.

- Provides a clear and comprehensive guide on using veterinary vaccines to protect livestock from diseases
- Teaches the principles of vaccinology and vaccine immune response
- Highlights the vaccine production schemes and standards for quality control testing
- Offers easy-to-read reviews of the most current research on the subject
- Gives readers advice and recommendations on which vaccination schemes are most effective
- Discusses the today's state of vaccines and vaccination against selected transboundary animal diseases as well as possible future developments in the field

Veterinary Vaccines: Principles and Applications is an important resource for veterinary practitioners, animal health department officials, vaccine scientists, and veterinary students. It will also be of interest to professional associations and NGO active in livestock industry.

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VETERINARY MEDICINE - EQUINE

AUTHOR INDEX

Abram, C. , Facebook For Dummies	35
Achouri, K. , Electromagnetic Metasurfaces	50
Alani, A. , Dental Trauma at a Glance	43
Alizart, M. , The Climate Coup.....	57
Allison, L. , Fundamental Molecular Biology.....	73
Andersen, H. , Diversity Intelligence.....	17
Anderson, J. , Demystifying Research for Medical and Healthcare Students.....	105
Andrade, L. , Multi-Processor System-on-Chip 1	41
Andrade, L. , Multi-Processor System-on-Chip 2	52
Arcade, J. , Strategic Engineering	55
Arquilla, J. , Bitskrieg.....	97
Arslan, H. , Design and Analysis of Wireless Communication Signals	48
Bambrick-Santoyo, P. , Love & Literacy.....	46
Barnes, P. , Ours.....	44
Benmamar, B. , Intelligent Network Management and Control.....	49
Bhandari, M. , Evidence-Based Orthopedics.....	82
Biffignandi, S. , Handbook of Web Surveys.....	107
Bird, T. , Mutual Coupling Between Antennas	48
Blankenship, R. , Molecular Mechanisms of Photosynthesis	74
Blumberg, M. , Startup CXO	19
Bock, R. , Item Response Theory	104
Botan, C. , The Handbook of Strategic Communication	30
Boukhatem, N. , Constitutional Oncogenetics.....	80
Boyce, J. , Microsoft Certified Azure Fundamentals Study Guide.....	41
Briggs, S. , Criminology For Dummies	71
Bruen, A. , Cryptography, Information Theory, and Error-Correction	77
Buckingham, D. , Youth on Screen	32
Burke, P. , Play in Renaissance Italy.....	66
Burshtein, Z. , Physics, Optics, and Spectroscopy of Materials	89
Castaldo, C. , Start-Up Secure.....	18
Castillo, F. , Extreme Events and Climate Change	58
Chapouthier, G. , The Explosion of Life Forms	72
Chapple, M. , (ISC)2 CISSP Certified Information Systems Security Professional Official Practice Tests.....	109
Chapple, M. , (ISC)2 CISSP Certified Information Systems Security Professional Official Study Guide	110
Cibulka, R. , Flavin-based Catalysis.....	25
Citrin, J. , Leading at a Distance	16
Combes, F. , Galaxies	91
Connor, T. , Third Shift Entrepreneur	19
Corbin, A. , Terra Incognita	67
Corredoira, L. , The Handbook of Communication Rights, Law, and Ethics	33
Curtis, V. , Getting Started in Small Business For Dummies	18
Darroch, J. , The Two Headed Coin.....	61
David, S. , Security Issues and Privacy Concerns in Industry 4.0 Applications.....	43
De Forest, P. , Blood Traces.....	23
Delhay, J. , Inside the World of Computing.....	37
Denis, D. , Applied Univariate, Bivariate, and Multivariate Statistics	107
Denis, D. , Applied Univariate, Bivariate, and Multivariate Statistics Using Python.....	105
Dimon, R. , Connected Planning.....	14
Dimotikalis, Y. , Applied Modeling Techniques and Data Analysis 1	20
Dimotikalis, Y. , Applied Modeling Techniques and Data Analysis 2	16
Diwald, O. , Metal Oxide Nanoparticles.....	90
Dixon, L. , The Wiley Handbook of What Works in Child Maltreatment.....	99
Dombrowski, A. , Wiley Blackwell Companion to Impressionism	10
Douay, N. , Urban Planning for Transitions.....	57

Douglass, F. , Narrative of the Life of Frederick Douglass	68
Dowty, A. , Israel.....	96
Drake, M. , Abrams' Urodynamics.....	83
Dvorkin, J. , Trusting the News in a Digital Age.....	34
Destr&eacute;	30
Ebersold, S. , Accessibility or Reinventing Education	44
Elachi, C. , Introduction to the Physics and Techniques of Remote Sensing	52
Epperson, J. , An Introduction to Numerical Methods and Analysis.....	76
Equiano, O. , The Interesting Narrative of Olaudah Equiano.....	70
Farokhi, S. , Aircraft Propulsion	85
Favennec, P. , Electromagnetic Waves 1	50
Favennec, P. , Electromagnetic Waves 2	51
Fife, L. , The Official (ISC)2 Guide to the CCSP CBK.....	42
Firpo, J. , Activate Your Money.....	60
Flood, J. , Wiley Practitioner's Guide to GAAS 2021.....	10
Frain, A. , ABC of Clinical Resilience.....	78
Free, C. , RF and Microwave Circuit Design.....	54
Galen, G. , DBT For Dummies	101
Garcia-Martinez, J. , Chemistry Entrepreneurship.....	29
Gawor, J. , The Veterinary Dental Patient: A Multidisciplinary Approach.....	110
Geng, H. , Data Center Handbook.....	39
Giampalmi, J. , APA Style & Citations For Dummies.....	45
Gleadle, J. , How to Pass the FRACP Written Examination	78
Gogu, C. , Mechanical Engineering in Uncertainties From Classical Approaches to Some Recent Developments	93
Gregory, J. , Introduction to Flight Testing	85
Gupta, B. , Statistical Quality Control	108
Gutman, A. , Becoming a Data Head	39
Haesler, D. , The Act of Leadership.....	13
Hall, F. , Valuing Businesses Using Regression Analysis.....	11
Han, B. , The Palliative Society	93
Hentea, M. , Building an Effective Security Program for Distributed Energy Resources and Systems.....	56
Hertel, G. , The Wiley Blackwell Handbook of the Psychology of the Internet at Work	98
Hitchings, R. , The Unsettling Outdoors.....	64
Hudson, P. , Cyanobacteria biotechnology	22
Inamuddin , Applied Water Science	21
Inamuddin , Flexible Supercapacitor Nanoarchitectonics	90
Inamuddin , Polysaccharides.....	100
Ingle, A. , Nanotechnology in Plant Growth Promotion and Protection	75
Jacques, G. , Oceans.....	59
Jeanroy, A. , Canning & Preserving For Dummies	72
Johnston, K. , The Handbook of Communication Engagement	33
Jongsma, A. , The Adult Psychotherapy Progress Notes Planner.....	99
Jongsma, A. , The Complete Adult Psychotherapy Treatment Planner	100
Kaplinsky, R. , Sustainable Futures.....	103
Kaufman, L. , The Blue Book of Grammar and Punctuation	46
Kaufmann, U. , Data Analytics for Organisational Development.....	38
Keane, N. , The Blackwell Companion to Hermeneutics	94
Khan, B. , Active Electrical Distribution Network	56
Khawaja, G. , Kali Linux Penetration Testing Bible	38
King, A. , Urban Warfare in the Twenty-First Century.....	97
Kingan, S. , Graphs and Networks	77
Sch&uuml;	94
Knoll, G. , Radiation Detection and Measurement.....	92
Koo, C. , Two-Dimensional Materials for Electromagnetic Shielding.....	89
Kotnees, D. , Rubber to Rubber Adhesion	87
Kotter, J. , Change	15

Koutroulis, I. , Emergency Management of the Hi-Tech Patient in Acute and Critical Care	79
Kurdila, A. , Vibrations of Linear Piezstructures	84
Lauwers, G. , Gastrointestinal Pathology	80
Le Lay, S. , The Gamification of Society	102
Lechner, N. , Heating, Cooling, Lighting	12
Lee, B. , Advanced Fermentation and Cell Technology	63
Lee, S. , Metabolic Engineering	24
Lemery, J. , Global Climate Change and Human Health	65
Levin, V. , Teach Smarter	45
Li, L. , High Temperature Mechanical Behavior of Ceramic-Matrix Composites	88
Li, T. , Nanogap Electrodes	88
Lobo, C. , Collaborative Learning in Practice	91
Luengo, M. , News Media Innovation Reconsidered	34
Machin, D. , Randomised Clinical Trials	81
Makarov, S. , Antenna and EM Modeling with MATLAB Antenna Toolbox	47
Makhlouf, A. , Algebra and Applications 1	76
Mariani, M. , Data Science in Theory and Practice	106
Mateu Mahiques, J. , Geostatistical Functional Data Analysis	104
Mautz, S. , Leading from the Middle	15
Mbarek, N. , Service Level Management in Emerging Environments	49
McClymer, J. , The Birth of Modern America, 1914 - 1945	68
McFedries, P. , Cord Cutting For Dummies	32
Melander, M. , Atomic-Scale Modelling of Electrochemical Systems	28
Mercier, D. , Spatial Impacts of Climate Change	63
Metwally, S. , Veterinary Vaccines	111
Mitra, A. , Fundamentals of Quality Control and Improvement	108
Mohanty, S. , Machine Learning for Healthcare Applications	40
Monconduit, L. , Na-ion Batteries	55
Mould, O. , Seven Ethics Against Capitalism	64
Murray, E. , The Mental Health and Wellbeing of Healthcare Practitioners	65
Myers, N. , Self-Service Data Analytics and Governance for Managers	14
Nelson, J. , Using Predictive Analytics to Improve Healthcare Outcomes	106
Newell, E. , Mastering Microsoft Dynamics 365 Implementations	36
Northup, S. , Twelve Years a Slave	69
Palmquist, S. , Comprehensive Commentary on Kant's Religion Within the Bounds of Bare Reason	95
Parente, E. , McIlwraith and Turner's Equine Surgery	111
Park, C. , Advanced Engineering Economics	71
Peckol, J. , Introduction to Fuzzy Logic	51
Penrice, R. , Black American History For Dummies	67
Pfennig, B. , Principles of Inorganic Chemistry	26
Poell, T. , Platforms and Cultural Production	31
Pompian, M. , Behavioral Finance and Your Portfolio	62
Popov, L. , A Mid-Ordovician Brachiopod Evolutionary Hotspot in Southern Kazakhstan	59
Prasad, M. , Handbook of Ecological and Ecosystem Engineering	23
Pyzer-Knapp, E. , Deep Learning for Physical Scientists	29
Randall, R. , Vibration-based Condition Monitoring	84
Rattan, K. , Introductory Mathematics for Engineering Applications	83
Razavi, B. , Fundamentals of Microelectronics	47
Reckwitz, A. , The End of Illusions	101
Rey, G. , A Companion to Chomsky	95
Reynolds, D. , Introduction to Hospitality Management	70
Reynolds, M. , The Art of Attack	42
Rice, S. , Series 7 Exam For Dummies	109
Richter, J. , The Esophagus	79
Rinzler, C. , Nutrition For Dummies	66
Robertson, N. , Leo Strauss	98

Rogers, S. , A Letter to My White Friends and Colleagues.....	17
Rohde, U. , Microwave and Wireless Synthesizers	53
Sahoo, T. , Root Cause Failure Analysis.....	22
Saleem, T. , Big Data Analytics for Internet of Things	40
Saleh, M. , Virology	73
Scannell, P. , Love and Communication	35
Seeram, E. , A Comprehensive Guide to Radiographic Sciences and Technology	82
Shambaugh, D. , China's Leaders.....	96
Shaw, A. , Astrochemistry	27
Singh, G. , Cloud and IoT Based Vehicular Ad-Hoc Networks	86
Smith, C. , Anthropology For Dummies	11
Sortais, J. , Manganese Catalysis in Organic Synthesis	25
Spence, R. , Why do buildings collapse in earthquakes? Building for safety in seismic areas	21
Spivey, D. , AppleOne For Dummies	37
St. John, K. , Reconstructing Earth's Climate History	60
Stay, J. , TikTok For Dummies	36
Steed, J. , Supramolecular Chemistry	27
Stuart, D. , What is Environmental Sociology?.....	102
Subhash, G. , Dynamic Response of Advanced Ceramics	87
Szabo, B. , Finite Element Analysis	86
Templeton, A. , Population Genetics and Microevolutionary Theory	74
Thomas, J. , Wi-Fi.....	31
Tolinski, M. , Plastics and Sustainability Grey is the New Green	28
Tyson, E. , Personal Finance in Your 20s & 30s For Dummies.....	62
Upadhyay, S. , Bioprospecting of Plant Biodiversity for Industrial Molecules	75
VanCleave, J. , Janice VanCleave's Physics for Every Kid	20
Varughese, R. , Clinical Guide to Paediatrics.....	81
Vendelin, G. , Microwave Circuit Design Using Linear and Nonlinear Techniques	54
Verma, A. , Introduction To Modern Planar Transmission Lines	53
Vullings, M. , Changing the Game	13
Wall, W. , Investigating Fossils	58
Warren, L. , American Environmental History	69
Williams, F. , Social Policy	103
Williamsen, M. , Delivering Safety Excellence	26
Yeang, K. , At One with Nature.....	12
Zhang, Y. , Space Physics and Aeronomy, 5 Volumes Set.....	92
Zhao, H. , Protein Engineering.....	24

SUBJECT INDEX**17th & 18th Century Philosophy**

Palmquist, Comprehensive Commentary on Kant's Religion Within the Bounds of Bare Reason, 1-119-09023-795

20th Century America

McClymer, The Birth of Modern America, 1914 - 1945, 1-119-08153-X68

Aeronautic & Aerospace Engineering

Farokhi, Aircraft Propulsion, 1-119-71864-385

Gregory, Introduction to Flight Testing, 1-118-94982-X85

Algebra

Makhlouf, Algebra and Applications 1, 1-78945-017-976

American Social & Cultural History

Douglass, Narrative of the Life of Frederick Douglass, 0-85708-910-268

Northup, Twelve Years a Slave, 0-85708-906-469

Ancient Culture

Destréacut30

Antennas & Propagation

Bird, Mutual Coupling Between Antennas, 1-119-56498-048

Makarov, Antenna and EM Modeling with MATLAB Antenna Toolbox, 1-119-69369-147

Art History & Theory

Dombrowski, Wiley Blackwell Companion to Impressionism, 1-119-37389-110

Artificial Intelligence

Mohanty, Machine Learning for Healthcare Applications, 1-119-79181-240

Asian Politics

Shambaugh, China's Leaders, 1-5095-4651-096

Astronomy & Astrophysics

Combes, Galaxies, 1-78945-012-891

Atmospheric Sciences

Zhang, Space Physics and Aeronomy, 5 Volumes Set, 1-119-50748-092

Auditing

Flood, Wiley Practitioner's Guide to GAAS 2021, 1-119-78964-810

Automotive Engineering

Singh, Cloud and IoT Based Vehicular Ad-Hoc Networks, 1-119-76183-286

Biochemical Engineering

Hudson, Cyanobacteria biotechnology, 3-527-34714-322

Bioethics & Medical Ethics

Schüml94

Biopolymers

Inamuddin, Polysaccharides, 1-119-71138-X100

Biotechnology (Chemistry)

Lee, Metabolic Engineering, 3-527-34662-724

Zhao, Protein Engineering, 3-527-34470-524

Building Design

Lechner, Heating, Cooling, Lighting, 1-119-58574-012

Yeang, At One with Nature, 1-119-52803-812

Business & Management in Chemistry

Garcia-Martinez, Chemistry Entrepreneurship, 3-527-34544-229

Business & Management Special Topics

Dimotikalis, Applied Modeling Techniques and Data Analysis 1, 1-78630-673-520

Business & Society

Rogers, A Letter to My White Friends and Colleagues, 1-119-79477-317

Business Data Processing

Kaufmann, Data Analytics for Organisational Development, 1-119-75833-538

Business Self-Help

Haesler, The Act of Leadership, 0-7303-9211-213

Business Technology

Dimon, Connected Planning, 1-119-48580-0.....	14
Myers, Self-Service Data Analytics and Governance for Managers, 1-119-77329-6.....	14
Vullings, Changing the Game, 0-7303-8913-8	13
Catalysis	
Cibulka, Flavin-based Catalysis, 3-527-34834-4.....	25
Sortais, Manganese Catalysis in Organic Synthesis, 3-527-34730-5.....	25
Cell & Molecular Biology	
Allison, Fundamental Molecular Biology, 1-119-15629-7	73
Ceramics	
Li, High Temperature Mechanical Behavior of Ceramic-Matrix Composites, 3-527-34903-0	88
Subhash, Dynamic Response of Advanced Ceramics, 1-119-59977-6	87
Certification (MSCE, Novell, etc.)	
Chapple, (ISC)2 CISSP Certified Information Systems Security Professional Official Practice Tests, 1-119-78763-7	109
Chapple, (ISC)2 CISSP Certified Information Systems Security Professional Official Study Guide, 1-119-78623-1	110
Chemical and Environmental Health and Safety	
Williamson, Delivering Safety Excellence, 1-119-77213-3	26
Children's Science	
VanCleave, Janice VanCleave's Physics for Every Kid, 1-119-65428-9.....	20
Circuit Theory & Design	
Razavi, Fundamentals of Microelectronics, 1-119-69514-7	47
Classical & Fluid Mechanics	
Gogu, Mechanical Engineering in Uncertainties From Classical Approaches to Some Recent Developments, 1-78945-010-1 ...	93
Climatology & Paleoclimatology	
St. John, Reconstructing Earth's Climate History, 1-119-54411-4	60
Clinical Psychology	
Dixon, The Wiley Handbook of What Works in Child Maltreatment, 1-118-97612-6.....	99
Communication Studies	
Scannell, Love and Communication, 1-5095-4752-5	35
Communication Technology - Networks	
Benmammar, Intelligent Network Management and Control, 1-78945-008-X	49
Mbarek, Service Level Management in Emerging Environments, 1-78945-002-0	49
Computational / Numerical Methods	
Szabo, Finite Element Analysis, 1-119-42642-1	86
Computational Chemistry & Molecular Modeling	
Pyzer-Knapp, Deep Learning for Physical Scientists, 1-119-40833-4.....	29
Computer Architecture	
Andrade, Multi-Processor System-on-Chip 1, 1-78945-021-7.....	41
Computer Security & Cryptography	
David, Security Issues and Privacy Concerns in Industry 4.0 Applications, 1-119-77562-0.....	43
Fife, The Official (ISC)2 Guide to the CCSP CBK, 1-119-60343-9.....	42
Reynolds, The Art of Attack, 1-119-80546-5	42
Computing Special Topics	
Delhay, Inside the World of Computing, 1-78630-665-4	37
Continental Philosophy	
Keane, The Blackwell Companion to Hermeneutics, 1-119-10052-6	94
Cooking	
Jeanroy, Canning & Preserving For Dummies, 1-119-78778-5	72
Creativity & Innovation Management	
Dimotikalis, Applied Modeling Techniques and Data Analysis 2, 1-78630-674-3	16
Criminology	
Briggs, Criminology For Dummies, 1-119-77319-9	71
Cryptography	
Bruen, Cryptography, Information Theory, and Error-Correction, 1-119-58242-3	77
Data Analysis	
Denis, Applied Univariate, Bivariate, and Multivariate Statistics Using Python, 1-119-57814-0.....	105
Mariani, Data Science in Theory and Practice, 1-119-67468-9	106

Nelson, Using Predictive Analytics to Improve Healthcare Outcomes, 1-119-74775-9	106
Data Mining & Knowledge Discovery	
Gutman, Becoming a Data Head, 1-119-74174-2	39
Saleem, Big Data Analytics for Internet of Things, 1-119-74075-4	40
Database & Data Warehousing Technologies	
Geng, Data Center Handbook, 1-119-59750-1	39
Dental Traumatology	
Alani, Dental Trauma at a Glance, 1-119-56283-X	43
Earthquake	
Spence, Why do buildings collapse in earthquakes? Building for safety in seismic areas, 1-119-61942-4	21
Electric Power Systems	
Khan, Active Electrical Distribution Network, 1-119-59951-2	56
Electrical Engineering Special Topics	
Arcade, Strategic Engineering, 1-78630-642-5	55
Electrochemistry	
Melander, Atomic-Scale Modelling of Electrochemical Systems, 1-119-60561-X	28
Electromagnetic Compatibility	
Favennec, Electromagnetic Waves 1, 1-78945-006-3	50
Favennec, Electromagnetic Waves 2, 1-78945-007-1	51
Electromagnetic Theory	
Achouri, Electromagnetic Metasurfaces, 1-119-52516-0	50
Electronic Materials	
Koo, Two-Dimensional Materials for Electromagnetic Shielding, 3-527-34842-5	89
Li, Nanogap Electrodes, 3-527-33271-5	88
Emergency Medicine & Trauma	
Koutroulis, Emergency Management of the Hi-Tech Patient in Acute and Critical Care, 1-119-26292-5	79
Engineering Technology Management	
Park, Advanced Engineering Economics, 1-119-69196-6	71
Environmental Chemistry	
Prasad, Handbook of Ecological and Ecosystem Engineering, 1-119-67853-6	23
Environmental Economics & Politics	
Alizart, The Climate Coup, 1-5095-4613-8	57
Environmental Geography	
Hitchings, The Unsettling Outdoors, 1-119-54912-4	64
Environmental Science	
Douay, Urban Planning for Transitions, 1-78630-675-1	57
Environmental Sociology	
Stuart, What is Environmental Sociology?, 1-5095-4438-0	102
Environmental Statistics & Environmetrics	
Mateu Mahiques, Geostatistical Functional Data Analysis, 1-119-38784-1	104
Food Biotechnology	
Lee, Advanced Fermentation and Cell Technology, 1-119-04276-3	63
Forensics	
De Forest, Blood Traces, 1-119-76453-X	23
Fuzzy Systems	
Peckol, Introduction to Fuzzy Logic, 1-119-77261-3	51
Gastroenterology	
Lauwers, Gastrointestinal Pathology, 0-470-65836-3	80
Richter, The Esophagus, 1-119-59960-1	79
General & Introductory Anthropology	
Smith, Anthropology For Dummies, 1-119-78420-4	11
General & Introductory Education	
Ebersold, Accessibility or Reinventing Education, 1-78945-011-X	44
Levin, Teach Smarter, 1-119-69889-8	45
General & Introductory Geography	
Mercier, Spatial Impacts of Climate Change, 1-78945-009-8	63

General & Introductory History	
Burke, Play in Renaissance Italy, 1-5095-4342-2	66
Corbin, Terra Incognita, 1-5095-4625-1	67
General & Introductory Hospitality	
Reynolds, Introduction to Hospitality Management, 1-119-32627-3	70
General & Introductory Mechanical Engineering	
Rattan, Introductory Mathematics for Engineering Applications, 1-119-60442-7	83
General Biology	
Chapouthier, The Explosion of Life Forms, 1-78945-005-5	72
General Communication & Media Studies	
Botan, The Handbook of Strategic Communication, 1-118-85214-1	30
General Energy	
Monconduit, Na-ion Batteries, 1-78945-013-6	55
General Finance & Investments	
Darroch, The Two Headed Coin, 1-119-79420-X	61
Firpo, Activate Your Money, 1-119-77708-9	60
General Philosophy	
Han, The Palliative Society, 1-5095-4723-1	93
General Self-Help	
Galen, DBT For Dummies, 1-119-73012-0	101
General Sociology	
Le Lay, The Gamification of Society, 1-78630-645-X	102
Reckwitz, The End of Illusions, 1-5095-4569-7	101
Genetics	
Templeton, Population Genetics and Microevolutionary Theory, 1-118-50423-2	74
Geology & Geophysics	
Castillo, Extreme Events and Climate Change, 1-119-41362-1	58
Global Politics	
Dowty, Israel, 1-5095-3689-2	96
Graph Theory	
Kingan, Graphs and Networks, 1-118-93718-X	77
Grid & Cloud Computing	
Boyce, Microsoft Certified Azure Fundamentals Study Guide, 1-119-77092-0	41
Health, Diet & Nutrition	
Rinzler, Nutrition For Dummies, 1-119-72390-6	66
History of Science & Medicine	
Warren, American Environmental History, 1-4443-3939-7	69
Human Geography	
Mould, Seven Ethics Against Capitalism, 1-5095-4595-6	64
Hydraulic / Water Engineering	
Inamuddin, Applied Water Science, 1-119-72476-7	21
Inorganic Chemistry	
Pfennig, Principles of Inorganic Chemistry, 1-119-65032-1	26
International Public Health	
Lemery, Global Climate Change and Human Health, 1-119-66795-X	65
Internet General	
Abram, Facebook For Dummies, 1-119-78210-4	35
Investments & Securities	
Pompian, Behavioral Finance and Your Portfolio, 1-119-80161-3	62
Joining, Welding and Adhesion	
Kotnees, Rubber to Rubber Adhesion, 1-119-76889-6	87
Journalism	
Dvorkin, Trusting the News in a Digital Age, 1-119-71429-X	34
Luengo, News Media Innovation Reconsidered, 1-119-70649-1	34
Literacy & Reading	
Bambrick-Santoyo, Love & Literacy, 1-119-75165-9	46

Kaufman, The Blue Book of Grammar and Punctuation, 1-119-65302-9	46
Management	
Kotter, Change, 1-119-81584-3	15
Mautz, Leading from the Middle, 1-119-71791-4	15
Management / Leadership	
Citrin, Leading at a Distance, 1-119-78244-9	16
Manipulation of Nanosystems	
Inamuddin, Flexible Supercapacitor Nanoarchitectonics, 1-119-71145-2	90
Media Law & Ethics	
Corredoira, The Handbook of Communication Rights, Law, and Ethics, 1-119-71940-2	33
Media Studies	
Buckingham, Youth on Screen, 1-5095-4525-5	32
Poell, Platforms and Cultural Production, 1-5095-4050-4	31
Thomas, Wi-Fi, 1-5095-2989-6	31
Medical Professional Development	
Frain, ABC of Clinical Resilience, 1-119-69343-8	78
Gleadle, How to Pass the FRACP Written Examination, 1-119-59950-4	78
Medical Statistics & Epidemiology	
Anderson, Demystifying Research for Medical and Healthcare Students, 1-119-70137-6	105
Mental Health	
Murray, The Mental Health and Wellbeing of Healthcare Practitioners, 1-119-60951-8	65
Microsoft Other Software	
Newell, Mastering Microsoft Dynamics 365 Implementations, 1-119-78932-X	36
Military / Security / Intelligence	
Arquilla, Bitskrieg, 1-5095-4362-7	97
King, Urban Warfare in the Twenty-First Century, 1-5095-4365-1	97
Mobile & Wireless Communications	
Arslan, Design and Analysis of Wireless Communication Signals, 1-119-76441-6	48
Multivariate Analysis	
Denis, Applied Univariate, Bivariate, and Multivariate Statistics, 1-119-58304-7	107
Nanomaterials	
Diwald, Metal Oxide Nanoparticles, 1-119-43674-5	90
Networking / Security	
Khawaja, Kali Linux Penetration Testing Bible, 1-119-71908-9	38
Numerical Methods	
Epperson, An Introduction to Numerical Methods and Analysis, 1-119-60469-9	76
Nursing Education & Professional Development	
Lobo, Collaborative Learning in Practice, 1-119-69536-8	91
Oceanography & Paleoceanography	
Jacques, Oceans, 1-78945-003-9	59
Office Productivity - Non-Microsoft (General & Suites)	
Spivey, AppleOne For Dummies, 1-119-80094-3	37
Oncology & Radiotherapy	
Boukhatem, Constitutional Oncogenetics, 1-78945-016-0	80
Optical and Non-Linear Optical Materials	
Burshtein, Physics, Optics, and Spectroscopy of Materials, 1-119-76873-X	89
Organizational & Industrial Psychology	
Hertel, The Wiley Blackwell Handbook of the Psychology of the Internet at Work, 1-119-25622-4	98
Orthopedics	
Bhandari, Evidence-Based Orthopedics, 1-119-41400-8	82
Paleontology, Paleobiology & Geobiology	
Popov, A Mid-Ordovician Brachiopod Evolutionary Hotspot in Southern Kazakhstan, 1-119-78187-6	59
Wall, Investigating Fossils, 1-119-69845-6	58
Pediatrics	
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Valuation	
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