

Biomedical Engineering Textbook Catalogue



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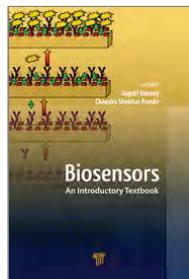
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Biosensors

An Introductory Textbook



Jagriti Narang, C.S. Pundir

This handbook has evolved from the authors' teaching and research experience in the field of nanoparticle biosensing. It encompasses protocols for synthesis of various forms of metal oxide nanoparticles; study of the various characterizing techniques that help deduce the shape, size, and morphology of these nanoparticles; and applications of these nanoparticles in the field of biosensors. It aims to introduce the various basic principles and practical information needed by undergraduate and advanced-level students and researchers to understand the science behind nanoscale sensing.

Jenny Stanford Publishing
April 2017:174

Hb: 978-9-814-74594-9: £63.99
eBook: 978-1-315-15652-1

* For full contents and more information, visit: www.routledge.com/9789814745949

Advanced Microfluidics Based Point-of-Care Diagnostics

A Bridge Between Microfluidics and Biomedical Applications



Edited by **Raju Khan, Chetna Dhand, Sunil Kumar Sanghi, D. Shabi Thankaraj Salammal, Ashtbhuja Prasad Mishra**

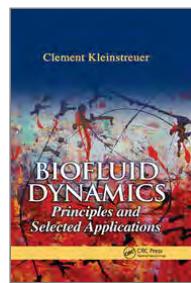
This book provides a well-focused and comprehensive overview of novel technologies involved in advanced microfluidics based diagnosis via various types of prognostic and diagnostic biomarkers. Moreover, it also contains detailed descriptions on the diagnosis of novel techniques. This book would serve as a guide for students, scientists, researchers, and microfluidics based point of care technologies via smart diagnostics and to plan future research in this valuable field.

CRC Press
March 2022:416
Hb: 978-0-367-46160-7: £150
eBook: 978-1-003-03347-9

* For full contents and more information, visit: www.routledge.com/9780367461607

Biofluid Dynamics

Principles and Selected Applications



Clement Kleinstreuer

Biofluid Dynamics builds a solid understanding of medical implants and devices from a bioengineering standpoint. The text features extensive worked examples and mathematical appendices; exercises and project assignments to stimulate critical thinking and build problem solving skills; numerous illustrations, including a 16-page full-color insert; computer simulations of biofluid dynamics processes and medical device operations; tools for solving basic biofluid problems; and a glossary of terms. The text can be used as a primary selection for a comprehensive course or for a two-course sequence or as a reference for professionals in biomedical engineering and medicine.

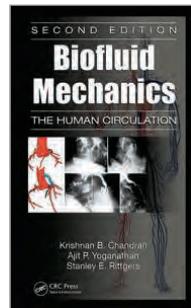
CRC Press
October 2019:528
Hb: 978-0-849-32221-1: £145
Pb: 978-0-367-39091-4: £59.99
eBook: 978-0-429-12251-4

* For full contents and more information, visit: www.routledge.com/9780367390914

2ND EDITION

Biofluid Mechanics

The Human Circulation, Second Edition



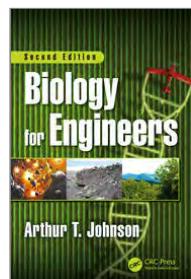
Krishnan B. Chandran, Stanley E. Rittgers, Ajit P. Yoganathan

This classroom-tested text teaches students how fluid mechanics is applied to the study of the human circulatory system. Reflecting changes in the field since the publication of its predecessor, this second edition includes improved figures, additional examples, and more problems at the end of each chapter. It also presents a new chapter on the computational fluid dynamic analysis of the human circulation, which reflects the rapidly increasing use of computational simulations in research and clinical arenas.

CRC Press
February 2012:456
Hb: 978-1-439-84516-5: £130
eBook: 978-0-429-10607-1

* For full contents and more information, visit: www.routledge.com/9781439845165

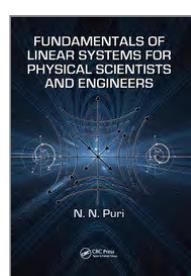
2ND EDITION

Biology for Engineers, Second Edition**Arthur T. Johnson**

This book gives a broad-range look at biological systems to establish fundamental understanding of living things from an engineering perspective. It does this by understanding how they relate to their environments and the methods used when dealing with living things. The intent is to give enough familiarity with living things that provides satisfactory solutions to technical problems that can be made using or applied to biological systems at any particular level of complexity. The ancillary benefit of *Biology for Engineers* is that biology can be seen to be quite interesting from an engineering viewpoint.

CRC Press
October 2018:988
Hb: 978-1-138-06789-9: £130
eBook: 978-1-351-16564-8

* For full contents and more information, visit: www.routledge.com/9781138067899

Fundamentals of Linear Systems for Physical Scientists and Engineers**N.N. Puri**

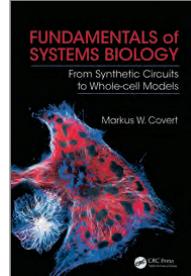
The advent of inexpensive computing allows engineers to analyze, compute, and develop results that were unthinkable in the past. This book draws from diverse areas of engineering and the physical sciences to cover the fundamentals of linear systems. Assuming no prior knowledge of complex mathematics, the author uses his nearly 40 years of experience to address all of the necessary mathematical techniques. Original proofs, hundreds of examples, and theorems that have been proven from the student's point of view illustrate and clarify the material. An extensive table provides Lyapunov functions for differential equations and conditions of stability for the equilibrium solutions.

CRC Press
June 2019:900
Hb: 978-1-439-81157-3: £105
Pb: 978-1-138-37418-8: £59.99
eBook: 978-0-429-18695-0

* For full contents and more information, visit: www.routledge.com/9781138374188

Fundamentals of Systems Biology

From Synthetic Circuits to Whole-cell Models

**Markus W. Covert**

For decades biology has focused on decoding cellular processes one gene at a time, but many of the most pressing questions and diseases such as cancer and heart disease are related to the interaction of hundreds, or even thousands, of gene products. How do we begin to understand this complexity? Systems biology addresses this need, standing at the intersection of computational modeling and high-throughput molecular biology. This textbook introduces readers to the field, walking them through studies that are the foundation and frontier of systems biology.

CRC Press
December 2014:368
Hb: 978-1-138-45987-8: £185
Pb: 978-1-420-08410-8: £86.99
eBook: 978-1-315-22261-5

* For full contents and more information, visit: www.routledge.com/9781420084108

Physiology for Engineers

A Systems Approach

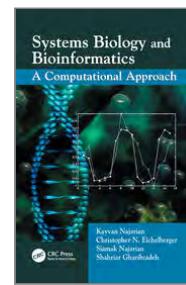
**Arthur B. Ritter***Series: Biomedical Engineering*

This will be a comprehensive primary text for emerging courses entitled physiology for engineers or systems physiology. This book allows the reader to understand the ways in which human beings adapt to a changing external environment, so they can thrive. Topics are covered in detail from a systems approach, which allows for the creation of mathematical models of homeostasis from block diagrams. Each chapter starts with one or more brief pathophysiological episodes that illustrate the loss of homeostatic

CRC Press
July 2026:408
Hb: 978-1-498-73456-1: £82
* For full contents and more information, visit: www.routledge.com/9781498734561

Systems Biology and Bioinformatics

A Computational Approach

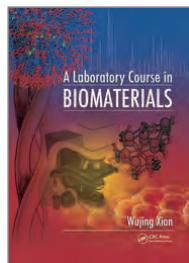
**Kayvan Najarian, Siamak Najarian, Shahriar Gharibzadeh, Christopher N. Eichelberger**

Emphasizing computational methods, *Systems Biology and Bioinformatics* provides an introduction to systems biology and its impact on biology and medicine. The book reviews the basic principles of molecular and cell biology using a system-oriented approach, with a brief description of the high-throughput biological experiments that produce databases. The methods presented in the text include techniques to discover genes, perform nucleotide and amino acid sequence matching, and estimate static gene dynamic pathways. The book also explains how to use system-oriented models to predict the behavior of biological systems for important applications such as rational drug design.

CRC Press
May 2017:190
Hb: 978-1-420-04650-2: £190
Pb: 978-1-138-11803-4: £74.99
eBook: 978-0-429-11222-5

* For full contents and more information, visit: www.routledge.com/9781138118034

A Laboratory Course in Biomaterials



Wujing Xian

A new teaching tool for instructors in biomaterials and bioengineering, this volume is a comprehensive laboratory textbook. It trains students in laboratory skills, data analysis, problem solving, and scientific writing and integrates a variety of principles that include materials science, chemistry, biochemistry, molecular and cell biology, and engineering. Providing detailed descriptions, explanations, and illustrations of experiments, the text also includes a series of questions and answers at the end of each chapter to clarify concepts. Many of the experiments presented are adapted from research papers to reflect the recent progress in biomaterials and bioengineering.

CRC Press

June 2009:216

Hb: 978-1-138-40742-8: £175

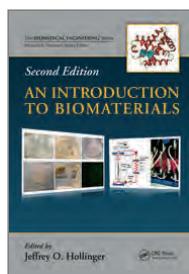
Pb: 978-1-420-07582-3: £69.99

eBook: 978-0-429-13992-5

* For full contents and more information, visit: www.routledge.com/9781420075823

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An Introduction to Biomaterials



Edited by Jeffrey O. Hollinger

Series: Biomedical Engineering

The second edition of this popular text includes nine new chapters that provide a comprehensive and up-to-date educational framework for biomaterials education. A new chapter on the biology of wound healing sets the stage for the basic requirements of standardized biomaterials testing and explains the reactions between biomaterials and the living system into which it is implanted. The book explains *in vitro* and *in vivo* testing paradigms and provides numerous examples in the chapters on experimental design, laboratory assays, and animal models. Emphasizing the importance of the regulatory process, it describes how innovation in the biomaterials process relates to patentability and inventorship.

CRC Press

November 2011:644

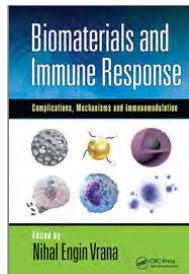
Hb: 978-1-439-81256-3: £130

eBook: 978-0-429-14891-0

* For full contents and more information, visit: www.routledge.com/9781439812563

Biomaterials and Immune Response

Complications, Mechanisms and Immunomodulation



Edited by Nihal Engin Vrana

This book focuses on the role of the immune system in biomaterial applications. In the field of biomaterials there are significant advances in using immunomodulation techniques to improve the success rates of implantable materials. For better understanding of such techniques it is required to have a full grasp of the biomaterial immune system interactions. This book has dedicated chapters for explaining immune cells taking part in immune response to biomaterials/immune systems interface and to greatly enhance the understanding of why the human body reacts to implants and how to solve this problem. Some common implants are dental implants, hip prosthesis and knee prosthesis, etc.

CRC Press

October 2023:264

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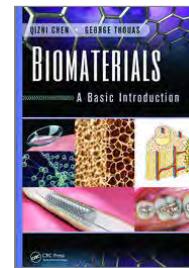
Pb: 978-1-032-65302-0: £44.99

eBook: 978-1-315-14714-7

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Biomaterials

A Basic Introduction



Qizhi Chen, George Thousas

Biomaterials is a multidisciplinary subject involving materials science, engineering, cell biology, and medicine. This textbook provides an appropriate balance between depth and breadth of coverage, sufficient to enable understanding of the most important concepts and principles by students from a wide academic spectrum. The book presents the properties and principles of biomaterials from the point of view of clinical applications and includes learning objectives, laboratory practices, and problems. It was developed from extensive lecture notes created by Dr. Chen at Monash University.

CRC Press

May 2018:736

Hb: 978-1-482-22769-7: £170

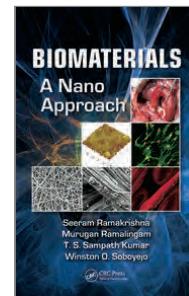
Pb: 978-1-138-74966-5: £56.99

eBook: 978-0-429-16141-4

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Biomaterials

A Nano Approach



Seeram Ramakrishna, Murugan Ramalingam, T.S. Sampath Kumar, Winston O. Soboyejo

From a multi-disciplinary point of view, this book examines basic concepts, various processing methodologies, and techniques involved in the preparation and characterization of nanobiomaterials that are specific to biomedical applications. It spans the historical development of biomaterials, leading to current advances in the field. It describes how basic concepts in nanotechnology are applied to the processing of novel nanobiomaterials, including nanostructured metals and alloys. Presenting illustrative examples and a variety of applications, this text offers a solid framework for understanding present and future trends of biomaterials in human health care systems.

CRC Press

June 2010:372

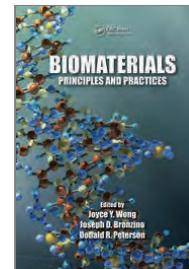
Hb: 978-1-420-04781-3: £115

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Biomaterials

Principles and Practices



Edited by Joyce Y. Wong, Joseph D. Bronzino, Donald R. Peterson

Most current applications of biomaterials involve structural functions, even in those organs and systems which are not primarily structural in their nature, or very simple chemical or electrical functions. Complex chemical functions such as those of the liver and complex electrical or electrochemical functions such as those of the brain and sense organs cannot be carried out by biomaterials at this time. With these basic concepts in mind, this book focuses on biomaterials consisting of different materials such as metallic, ceramic, polymeric, and composite.

CRC Press

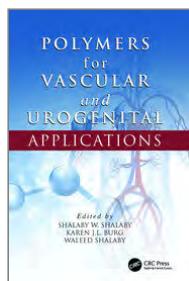
December 2012:288

Hb: 978-1-439-87251-2: £150

eBook: 978-0-429-11061-0

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Polymers for Vascular and Urogenital Applications



Edited by **Shalaby W. Shalaby, Karen J.L. Burg, Waleed Shalaby**

Series: *Advances in Polymeric Biomaterials*

In a carefully crafted, multidisciplinary, skillfully focused format, this book covers attributes of polymers used for vascular, urological, and gynecological materials. It provides a brief analysis of how the use of polymers in vascular and urogenital applications has evolved in the past five decades and outlines their common and specific functional requirements. It features small, readable monographs that provide a brief description of the evolving role of a particular material, and present topics in highly integrated, well-balanced, authoritatively prepared segments on material, processing, *in vitro* and *in vivo* evaluation complete with case studies.

CRC Press

April 2017:274

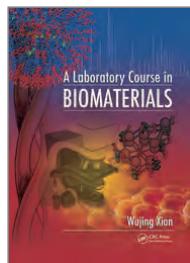
Hb: 978-1-420-07694-3: £240

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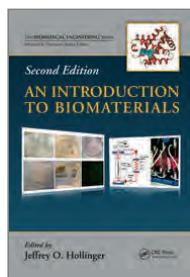
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November 2011:644

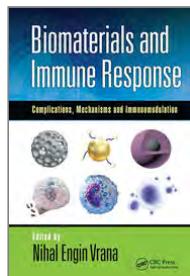
Hb: 978-1-439-81256-3: £130

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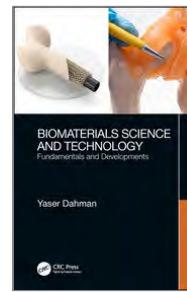
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eBook: 978-1-315-14714-7

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Biomaterials Science and Technology

Fundamentals and Developments



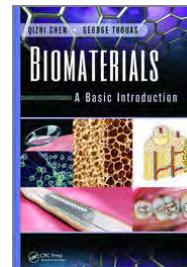
Yaser Dahman

This book presents a broad scope of the field, focusing on theory, advances, and applications of biomaterials. It reviews fabrication and properties of different classes of biomaterials and biocompatibility. It details methods used to characterize major properties of biomaterials and their modification to tailor properties for different applications. It discusses nanotechnology in biomaterials, reviews applications, and defines the set of tailored properties. Major applications are in the emerging fields of regenerative medicine as soft and hard tissues scaffolds, 3D printing as bioinks, and drug delivery.

CRC Press
February 2019:376
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Biomaterials

A Basic Introduction



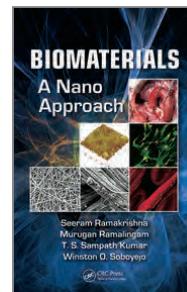
Qizhi Chen, George Thousas

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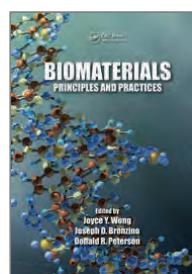
Seeram Ramakrishna, Murugan Ramalingam, T. S. Sampath Kumar, Winston O. Soboyejo

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June 2010:372
Hb: 978-1-420-04781-3: £115
eBook: 978-0-429-14152-2
* For full contents and more information, visit: www.routledge.com/9781420047813

Biomaterials

Principles and Practices



Edited by Joyce Y. Wong, Joseph D. Bronzino, Donald R. Peterson

Most current applications of biomaterials involve structural functions, even in those organs and systems which are not primarily structural in their nature, or very simple chemical or electrical functions. Complex chemical functions such as those of the liver and complex electrical or electrochemical functions such as those of the brain and sense organs cannot be carried out by biomaterials at this time. With these basic concepts in mind, this book focuses on biomaterials consisting of different materials such as metallic, ceramic, polymeric, and composite.

CRC Press

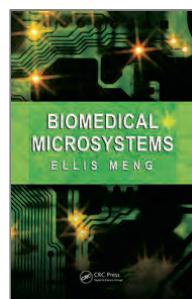
December 2012:288

Hb: 978-1-439-87251-2: £150

eBook: 978-0-429-11061-0

* For full contents and more information, visit: www.routledge.com/9781439872512

Biomedical Microsystems



Ellis Meng

Written by an active researcher who was recently named one of Technology Review's Young Innovators Under 35, this book begins with an introduction to the benefits of miniaturization. It then introduces materials, fabrication technology, and the necessary components of all bioMEMS. The author also covers fundamental principles and building blocks, including microfluidic concepts, lab-on-a-chip systems, and sensing and detection methods. The final chapters explore several important applications of bioMEMS, such as microdialysis, catheter-based sensors, MEMS implants, neural probes, and tissue engineering. Detailed examples, exercises, and illustrations help elucidate the concepts.

CRC Press

September 2010:408

Hb: 978-1-420-05122-3: £100

eBook: 978-0-429-10894-5

* For full contents and more information, visit: www.routledge.com/9781420051223

BioMEMS

Science and Engineering Perspectives



Simona Badilescu, Muthukumaran Packirisamy

Written to cover often overlooked areas in the field of bioMEMS, this volume bridges topics related to biomolecules and complex biological entities with those directly related to the design, fabrication, and characterization of the devices. Unlike other references, this text aids with the fundamental physicochemical understanding of biological processes relevant to the performance of various biosensing devices. Accessible to seniors and graduate students enrolled in engineering programs, the book includes problems in each chapter as well as case studies to provide real-life examples.

CRC Press

December 2019:368

Hb: 978-1-439-81699-8: £115

Pb: 978-0-367-45226-1: £56.99

eBook: 978-0-429-06674-0

* For full contents and more information, visit: www.routledge.com/9780367452261

4TH EDITION

Design of Biomedical Devices and Systems, 4th edition

Paul H. King, Richard C. Fries, Arthur T. Johnson

This will be a substantial revision of a highly regarded text, intended for senior design capstone courses within departments of biomedical engineering, bioengineering, biological engineering and medical engineering, worldwide. Each chapter will be thoroughly updated and revised to reflect the latest developments. New material will be added on entrepreneurship, bioengineering statistics, clinical trials and CRISPR. New examples, applications and problems will be added in each chapter. There will be strong efforts made to increase the number of clinical applications to enhance the overall relevance of the material that's presented. Significant new material added on FDA regulations.

CRC Press

October 2018:542

Hb: 978-1-138-72306-1: £145

eBook: 978-0-429-43479-2

* For full contents and more information, visit: www.routledge.com/9781138723061

2ND EDITION

Material Modeling in Finite Element Analysis

Zhaochun Yang

Finite element analysis has been widely applied in mechanical, civil, and biomedical design. This book aims to provide the readers with comprehensive views of various material models through practical examples, which would help readers better understand various materials and build appropriate material models in the finite element analysis. The book presents some specific problems including the metal forming process, combustion room, Mullins effect of rubber tire, viscoelasticity of liver soft tissues, small punch test, tunnel excavation, slope stability, concrete slump test, orthodontic wire, and piezoelectric microaccelerometer.

CRC Press

November 2023:320

Hb: 978-1-032-56602-3: £115

eBook: 978-1-003-43631-7

* For full contents and more information, visit: www.routledge.com/9781032566023

2ND EDITION

Orthopaedic Biomaterials in Research and Practice

Kevin L. Ong, Scott Lovald, Jonathan Black

Extensively revised, this text explores the biomaterials aspects of research on and treatment of injuries, disabilities, and diseases of the musculoskeletal system, emphasizing properties of natural soft and hard tissues and of materials used to replace or treat them, and the interactions between native tissues and man-made (engineered) materials. It is intended for use in both teaching and self-study settings. The work introduces materials science as applied to medical research and treatment (biomaterials) for students and practitioners who may lack formal training in engineering.

CRC Press

March 2018:476

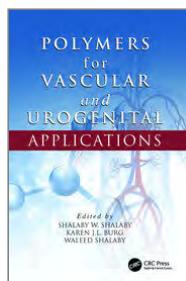
Hb: 978-1-466-50350-2: £200

Pb: 978-1-138-07486-6: £69.99

eBook: 978-0-429-09671-6

* For full contents and more information, visit: www.routledge.com/9781138074866

Polymers for Vascular and Urogenital Applications



Edited by **Shalaby W. Shalaby, Karen J.L. Burg, Waleed Shalaby**

Series: *Advances in Polymeric Biomaterials*

In a carefully crafted, multidisciplinary, skillfully focused format, this book covers attributes of polymers used for vascular, urological, and gynecological materials. It provides a brief analysis of how the use of polymers in vascular and urogenital applications has evolved in the past five decades and outlines their common and specific functional requirements. It features small, readable monographs that provide a brief description of the evolving role of a particular material, and present topics in highly integrated, well-balanced, authoritatively prepared segments on material, processing, *in vitro* and *in vivo* evaluation complete with case studies.

CRC Press

April 2017:274

Hb: 978-1-420-07694-3: £240

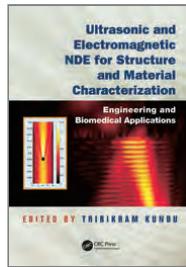
Pb: 978-1-138-07745-4: £89.99

eBook: 978-0-429-13935-2

* For full contents and more information, visit: www.routledge.com/9781138077454

Ultrasonic and Electromagnetic NDE for Structure and Material Characterization

Engineering and Biomedical Applications



Edited by **Tribikram Kundu**

Most books on NDE focus either on the theoretical background or on advanced applications. Bridging the gap, this book brings together the principles, equations, and applications of ultrasonic and electromagnetic NDE in a single, authoritative resource. It begins with the fundamentals of mechanics and electromagnetic theory, derives the basic equations, and then, step by step, covers state-of-the-art topics and applications. These include structural health monitoring, acoustic microscopy, terahertz imaging, and more. Written in plain language by some of the world's leading experts, this book appeals to students as well as practicing engineers and researchers.

CRC Press

June 2012:892

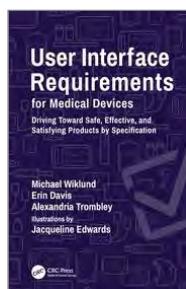
Hb: 978-1-439-83663-7: £130

eBook: 978-0-429-07155-3

* For full contents and more information, visit: www.routledge.com/9781439836637

User Interface Requirements for Medical Devices

Driving Toward Safe, Effective, and Satisfying Products by Specification



Michael Wiklund, Erin Davis, Alexandria Trombley

This book is a practical guide for individuals responsible for creating products that are safe, effective, usable, and satisfying in the hands of the intended users. The contents are intended to reduce the number of use errors involving medical devices that have led to injuries and deaths. The book presents the strong connection between user interface requirements and safety in medical devices and instructs readers how to develop specific requirements that are sufficiently comprehensive and detailed to produce good results – a user-friendly product that is likely to be used correctly.

CRC Press

November 2021:224

Hb: 978-0-367-45793-8: £175

Pb: 978-0-367-45747-1: £68.99

eBook: 978-1-003-02971-7

* For full contents and more information, visit: www.routledge.com/9780367457471



CRC Press
Taylor & Francis Group

www.routledge.com

Ambient Diagnostics



Yang Cai

This text addresses innovative methods for discovering patterns from affordable devices, such as mobile phones, watches, cameras, and game interfaces, to interpret multimedia data for personal health monitoring and diagnosis. This is the first comprehensive textbook for studying multidisciplinary innovations in affordable healthcare, from sensory fusion, pattern detection, to classification.

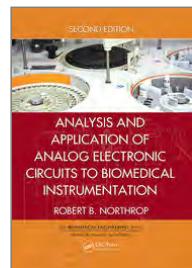
CRC Press
October 2019:404

Hb: 978-1-466-51041-8: £145
Pb: 978-0-367-37808-0: £59.99
eBook: 978-0-429-09884-0

* For full contents and more information, visit: www.routledge.com/9780367378080

2ND EDITION

Analysis and Application of Analog Electronic Circuits to Biomedical Instrumentation



Robert B. Northrop

Series: Biomedical Engineering

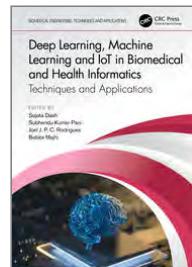
Focusing on the building blocks of biomedical systems, this text discusses the basic analog electronic circuits used for signal conditioning in biomedical instruments. It explains the electronic components and subsystems used in ECG, EEG, EMG, ERG, tomographic images, biochemical spectrograms, and other crucial medical applications. This second edition features a glossary, new end-of-chapter problems, and three chapters that address wireless patient monitoring using UHF telemetry; power amplifiers and their applications to biomedical instruments; and RFID, GPS, and ultrasonic tags used in ecological research. Ancillaries are available with qualifying course adoption.

CRC Press
March 2017:578
Hb: 978-1-439-86669-6: £145
Pb: 978-1-38-07305-0: £56.99
eBook: 978-0-429-10479-4

* For full contents and more information, visit: www.routledge.com/9781138073050

Deep Learning, Machine Learning and IoT in Biomedical and Health Informatics

Techniques and Applications



Edited by Sujata Dash, Subhendu Kumar Pani, Joel Rodrigues, Babita Majhi

Series: Biomedical Engineering

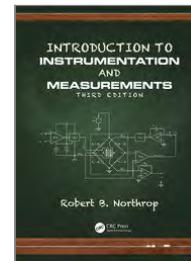
Biomedical and Health Informatics is an important field that brings tremendous opportunities and helps address challenges due to an abundance of available biomedical data. This book examines and demonstrates state-of-the-art approaches for IoT and Machine Learning based biomedical and health related applications. This book aims to provide computational methods for accumulating, updating and changing knowledge in intelligent systems and particularly learning mechanisms that help us to induce knowledge from the data. It will be very beneficial for new researchers and practitioners working in the biomedical and healthcare fields to quickly know the best performing methods.

CRC Press
February 2022:382
Hb: 978-0-367-54425-6: £140
eBook: 978-0-367-54844-5

* For full contents and more information, visit: www.routledge.com/9780367544256

3RD EDITION

Introduction to Instrumentation and Measurements



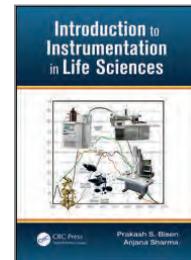
Robert B. Northrop

A substantial revision of a text for a standard instrumentation and measurements course taught in many departments of electrical engineering as well as bioengineering, biophysics, and applied physics, this third edition is fully updated to incorporate the latest developments in instrumentation and include new problems and examples. Ideal for upper division and graduate students requiring an overview of instrumentation, the book features two new chapters on wireless instrumentation and microsensors, new material on the design of micro-electro-mechanical (MEMS) sensors, and extensive biomedical examples and problems.

CRC Press
March 2017:952
Hb: 978-1-466-59677-1: £155
Pb: 978-1-38-07190-2: £58.99
eBook: 978-1-315-27523-9

* For full contents and more information, visit: www.routledge.com/9781138071902

Introduction to Instrumentation in Life Sciences



Prakash S. Bisen, Anjana Sharma

Addressing aspects of instrumentation that hold the keys for cutting-edge research and innovative applications, this book is designed to serve a wide range of students and researchers in diversified fields of life sciences, including pharmacy, biotechnology, microbiology, biochemistry, and environmental sciences. The book is unique in its broad subject coverage, incorporating fundamental techniques as well as applications of modern molecular and proteomic tools that are the basis for state-of-the-art research. It includes well-illustrated diagrams to explain the principles and theories behind the instruments described.

CRC Press
September 2012:384
Hb: 978-1-38-44070-8: £175
Pb: 978-1-466-51240-5: £84.99
eBook: 978-0-429-18521-2

* For full contents and more information, visit: www.routledge.com/9781466512405

Machine Learning and Deep Learning in Efficacy Improvement of Healthcare Systems



Edited by Om Prakash Jena, Bharat Bhushan, Nitin Rakesh, Parmanand Astya, Yousef Farhaoui

Series: Emerging Trends in Biomedical Technologies and Health Informatics

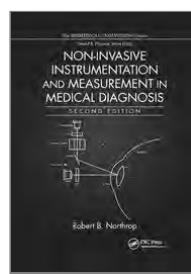
This book describes the fundamental concepts of machine learning and deep learning techniques in a healthcare system. The aim of this book is to describe how deep learning methods are used to insure high quality data processing, medical image and signal analysis, and improved healthcare application. This book is intended for students, researchers, professionals and policy makers working in the fields of public health and in the healthcare sector. Scientists and healthcare IT specialists will also find this book beneficial for research exposure and new ideas in the field of machine learning and deep learning.

CRC Press
May 2022:395
Hb: 978-1-032-03672-4: £105
eBook: 978-1-003-18905-7

* For full contents and more information, visit: www.routledge.com/9781032036724

2ND EDITION

Non-Invasive Instrumentation and Measurement in Medical Diagnosis



Robert B. Northrop

This text is intended for use in an introductory course in bioinstrumentation taken by seniors and 1st year graduate students in departments of biomedical engineering and possibly electrical engineering. Non-invasive instrumentation is a very important component of this course. An analytical and quantitative approach is stressed in describing the basic components of non-invasive medical instruments. The relationship of the many non-invasive parameters measured to health and physiology is considered in every case. Where appropriate this text also covers invasive instrumentation, with a description of their positive and negative effects.

CRC Press

December 2019:526

Hb: 978-1-498-74990-9: £125

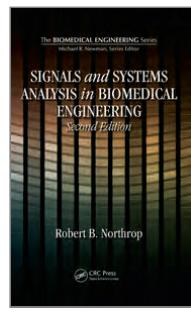
Pb: 978-0-367-87563-3: £52.99

eBook: 978-1-315-11769-0

* For full contents and more information, visit: www.routledge.com/9780367875633

2ND EDITION

Signals and Systems Analysis In Biomedical Engineering



Robert B. Northrop

Series: Biomedical Engineering

The interdisciplinary field of biomedical engineering requires its practitioners to know and master not only engineering skills, but also a diversity of material in the biological sciences. This text helps biomedical engineering students and professionals strengthen their skills in the network of applied mathematics that ties together these diverse disciplines. Based on the author's 30 years of experience in teaching as well as his personal research on neurosensory systems, this book, now in its second edition, provides a ready source of information on the specialized mathematical techniques most useful in describing and analyzing biomedical signals.

CRC Press

March 2010:654

Hb: 978-1-439-81251-8: £120

eBook: 978-0-429-13005-2

* For full contents and more information, visit: www.routledge.com/9781439812518

Soft Computing Techniques in Connected Healthcare Systems



Edited by Moolchand Sharma, Suman Deswal, Umesh Gupta, Mujahid Tabassum, Isah Lawal

Series: Biomedical and Robotics Healthcare

This book provides examination of applications of soft computing techniques related to healthcare systems and can be used as a reference guide for assessing the roles that various techniques, such as machine learning, fuzzy logic, and statistical mathematics, play in the advancements of smart healthcare systems. This book is intended for undergraduate, and graduate students, researchers and practicing professionals in the field of connected healthcare. It provides an overview for beginners while also addressing professionals in the industry on the importance of soft computing approaches in connected healthcare systems.

CRC Press

December 2023:312

Hb: 978-1-032-51347-8: £115

eBook: 978-1-003-40536-8

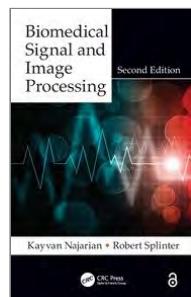
* For full contents and more information, visit: www.routledge.com/9781032513478



CRC Press
Taylor & Francis Group

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2ND EDITION

Biomedical Signal and Image Processing**Kayvan Najarian, Robert Splinter**

Written for senior-level and first year graduate students in biomedical signal and image processing, this book describes fundamental signal and image processing techniques that are used to process biomedical information. The book also discusses application of these techniques in the processing of some of the main biomedical signals and images, such as EEG, ECG, MRI, and CT. New features of this edition include the technical updating of each chapter along with the addition of many more examples, the majority of which are MATLAB® based.

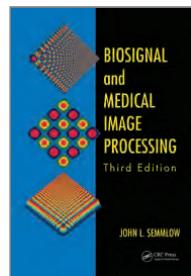
CRC Press

May 2012:411

Hb: 978-1-439-87033-4: £135

* For full contents and more information, visit: www.routledge.com/9781439870334

3RD EDITION

Biosignal and Medical Image Processing**John L. Semmlow, Benjamin Griffel**

This third edition of a bestseller offers comprehensive coverage of the major approaches in biomedical signal and image processing. It provides a complete set of signal processing tools, including diagnostic decision-making tools, and classification methods. Thoroughly revised and updated, it supplies important new material on nonlinear methods for describing and classifying signals, including entropy-based methods and scaling methods. This edition covers data "cleaning" methods commonly used in such areas as heart rate variability studies, along with actual examples. It also includes new end-of-chapter problems.

CRC Press

February 2014:630

Hb: 978-1-466-56736-8: £135

eBook: 978-0-429-09965-6

* For full contents and more information, visit: www.routledge.com/9781466567368

Machine Learning and Deep Learning in Efficacy Improvement of Healthcare Systems



Edited by **Om Prakash Jena, Bharat Bhushan, Nitin Rakesh, Parmanand Astya, Yousef Farhaoui**

Series: Emerging Trends in Biomedical Technologies and Health informatics

This book describes the fundamental concepts of machine learning and deep learning techniques in a healthcare system. The aim of this book is to describe how deep learning methods are used to insure high quality data processing, medical image and signal analysis, and improved healthcare application. This book is intended for students, researchers, professionals and policy makers working in the fields of public health and in the healthcare sector. Scientists and healthcare IT specialists will also find this book beneficial for research exposure and new ideas in the field of machine learning and deep learning.

CRC Press

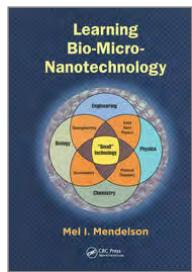
May 2022:395

Hb: 978-1-032-03672-4: £105

eBook: 978-1-003-18905-3

* For full contents and more information, visit: www.routledge.com/9781032036724

Learning Bio-Micro-Nanotechnology



Mel I. Mendelson

A primary text for undergraduate nanotechnology courses, this book is designed for students who lack a cross-disciplinary background and knowledge of micro- and nanotechnology. It contains examples, questions, and problems divided into three hierarchical learning skills: understanding, analyzing, and evaluating the concepts. The author breaks down the boundaries between biology, chemistry, physics, engineering and ethics by co-mingling the vocabularies and concepts of these disciplines around bio-applications. Copiously illustrated, this text emphasizes biological and biomedical applications and includes a comprehensive chapter on ethics. Ancillaries are available with qualifying course adoption.

CRC Press

September 2018:611

Hb: 978-1-420-08203-6: £150

Pb: 978-1-138-07631-0: £52.99

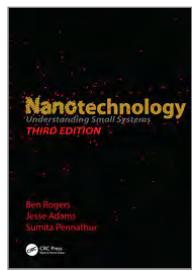
eBook: 978-0-429-16901-4

* For full contents and more information, visit: www.routledge.com/9781138076310

3RD EDITION

Nanotechnology

Understanding Small Systems, Third Edition



Ben Rogers, Jesse Adams, Sumita Pennathur

Series: Mechanical and Aerospace Engineering Series

This is a substantial revision of one of the first true primary texts in nanotechnology. The second edition was a CHOICE Award winner in 2011. Each chapter in the third edition has been thoroughly revised and updated. It adds a major new chapter on nanomedicine. It maintains the pedagogy along with the glossary. Vetted by a number of current and previous adopters, this text incorporates their comments in this new edition.

CRC Press

May 2017:432

Hb: 978-1-482-21172-6: £135

Pb: 978-1-138-07268-8: £45.99

eBook: 978-0-429-18358-4

* For full contents and more information, visit: www.routledge.com/9781138072688

Basic Concepts in Environmental Biotechnology



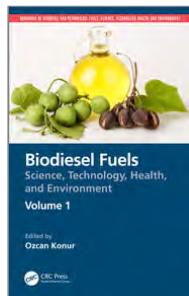
Edited by Neetu Sharma, Abhinashi Singh Sodhi, Navneet Batra

The book includes current and emerging concepts in the area of environmental biotechnology like pollution- source, control and measurement, bioremediation, biofuels, biosensors, conservation biotechnology etc. The book includes recent studies and innovations made in this field and incorporates case studies to help in understanding the concepts. Each chapter provides problems and solutions of different topics with diagrammatic illustrations and tables for students, researchers and other professionals interested in environmental biotechnology.

CRC Press
September 2023:300
Hb: 978-0-367-65259-3: £105
Pb: 978-0-367-67469-4: £44.99
eBook: 978-1-003-13142-7
* For full contents and more information, visit: www.routledge.com/9780367674694

Biodiesel Fuels

Science, Technology, Health, and Environment



Edited by Ozcan Konur

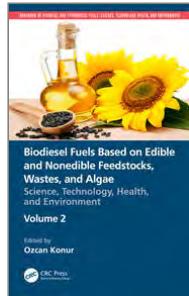
Series: Handbook of Biodiesel and Petrodiesel Fuels

This book focuses on the production and properties of bioenergy and biofuels, biochemicals, and other bioproducts produced from glycerol. The first volume of the Handbook of Biodiesel and Petrodiesel Fuels is broken up into four parts. Part 1. Science, Technology, Health, and Environment of Biodiesel and Petrodiesel Fuels. Part 2. General Overview of Biofats. part 3. General Overview of Biodiesel. Part 4. Biodiesel Waste-Glycerol, focuses on the introductory chapters on, biooils, biodiesel fuels, and biodiesel fuel wastes (glycerol).

CRC Press
September 2023:448
Hb: 978-0-367-45614-6: £145
Pb: 978-0-367-70494-0: £44.99
eBook: 978-0-367-45623-8
* For full contents and more information, visit: www.routledge.com/9780367704940

Biodiesel Fuels Based on Edible and Nonedible Feedstocks, Wastes, and Algae

Science, Technology, Health, and Environment



Edited by Ozcan Konur

Series: Handbook of Biodiesel and Petrodiesel Fuels

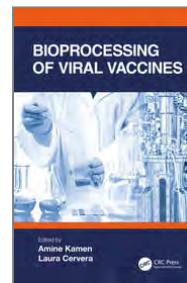
Part of a three volume handbook covering major research of petrodiesel and biodiesel fuels, this volume focuses on production, properties, performance, emissions, and catalysts of biodiesel fuels from edible and nonedible biooils, as well as wastes and algae. It also addresses public concerns and benefits of each, related to the use of edible oils for biodiesel fuel production as they result in the competition with the use of these edible oils as food would also be covered in this part. This book also discusses the public environmental benefits and concerns related to the use of algal biooils for biodiesel fuel production.

CRC Press
September 2023:418
Hb: 978-0-367-45615-3: £145
Pb: 978-0-367-70503-9: £44.99
eBook: 978-0-367-45620-7
* For full contents and more information, visit: www.routledge.com/9780367705039

Bioprocessing of Viral Vaccines

Edited by Amine Kamen, Laura Cervera

This book focuses on cell culture-produced viral vaccines to meet the needs of the rapidly expanding research and development in academia and industry in the field. This book introduces the basic principles of vaccination and the manufacturing of viral vaccines. This book is aimed at graduate engineers and professionals in the fields of virology, immunology, bioprocessing, and biomanufacturing of viral vaccines.

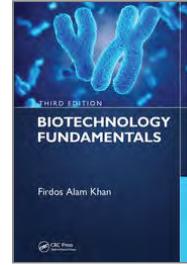


CRC Press
September 2022:328
Hb: 978-1-032-13211-2: £135
eBook: 978-1-003-22979-7
* For full contents and more information, visit: www.routledge.com/9781032132112

Biotechnology Fundamentals Third Edition

Firdos Alam Khan

Biotechnology Fundamentals, Third Edition breaks down the basic fundamentals of this discipline, and highlights both conventional and modern approaches unique to the industry. The revised work presents new information on Forensic Science, Bioinformatics, Synthetic Biology, Biosimilars and Regenerative Medicine. In addition to recent advances and updates relevant to the previous edition, the revised work also covers ethics in biotechnology and discusses career possibilities in this growing field.



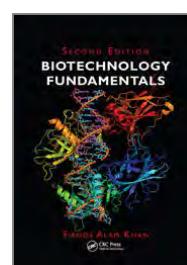
CRC Press
October 2023:390
Hb: 978-1-138-61208-2: £105
Pb: 978-1-032-65345-7: £45.99
eBook: 978-1-003-02475-0
* For full contents and more information, visit: www.routledge.com/9781032653457

2ND EDITION

Biotechnology Fundamentals

Firdos Alam Khan

This is a substantial revision of a successful book designed to be used for an introductory course in biotechnology. Each chapter has been updated with better illustrations and an enhanced pedagogy. This second edition includes new problem sets, key words, better alignment with figures/text, additional solutions with problems contained in the text, and an additional test bank.

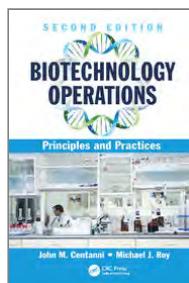


CRC Press
September 2017:710
Hb: 978-1-498-72342-8: £175
Pb: 978-0-815-37004-8: £59.99
eBook: 978-1-315-37076-7
* For full contents and more information, visit: www.routledge.com/9780815370048

2ND EDITION

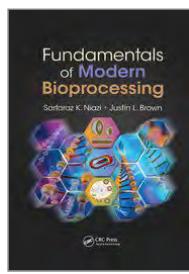
Biotechnology Operations

Principles and Practices, Second Edition

**John M. Centanni, Michael J. Roy**

This book describes seven areas in the field of biotechnology operations as practiced by biopharmaceutical firms and nonprofit institutions. Revisions focus upon changes that have occurred in several areas over the past six years, with emphasis on regulatory, biomanufacturing, clinical and technical information, along with processes and guidelines that have added to the discipline. Examples are increased for new technical fields such as cell and tissue engineering. Further, illustrations or figures are added to each chapter to emphasize particular points.

CRC Press
September 2016:946
Hb: 978-1-498-75879-6: £130
eBook: 978-1-315-36775-0

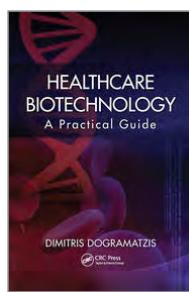
* For full contents and more information, visit: www.routledge.com/9781498758796**Fundamentals of Modern Bioprocessing****Sarfaraz K. Niazi, Justin L. Brown**

This comprehensive bioprocessing textbook deals with the basic concepts, definitions, methods, and applications of the use of biological catalysts to deliver products of high value and utility, from alcohol to recombinant monoclonal antibodies to common day use fuel. It covers all modern aspects, including the means of processing that are required for drug processing to the use of biofuels, downstream bioprocessing, bioprocess design, and regulatory affairs, among many other cutting-edge topics. Applications and case studies are incorporated throughout.

CRC Press
July 2017:768
Hb: 978-1-466-58573-7: £165
Pb: 978-1-38-89329-0: £61.99

* For full contents and more information, visit: www.routledge.com/9781138893290**Healthcare Biotechnology**

A Practical Guide

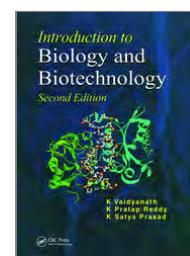
**Dimitris Dogramatzis**

A first of its kind to focus on the management of healthcare related biotechnology, this text is a resourceful practical guide that assists all healthcare related biotech professionals in their day-to-day activities. The book contains chapters on bioeconomy, biolicensing, biofinance, biopartnering, biodrug research, biomarketing planning, biopromotion, product life cycle management, and biobusiness models, among others. Written by a well-established professional and registered pharmacist, this reference is appropriate for graduate students and industry professionals. It contains over 350 tables and figures and end-of-section problems accompany each chapter. There are also extensive reference

CRC Press
December 2019:689
Hb: 978-1-439-84746-6: £145
Pb: 978-0-367-45227-8: £56.99
eBook: 978-0-429-10946-1

* For full contents and more information, visit: www.routledge.com/9780367452278**Introduction to Biology and Biotechnology, Second Edition****K. Vaidyanath, K. Pratap Reddy, K. Satya Prasad**

Covering all aspects of basic microbial, plant, animal, and human biology, *Introduction to Biology and Biotechnology* describes the linkage of biological principles to plant, animal, environmental, industrial, and medical biotechnologies. It discusses the basic concepts of genetics and molecular biology and examines technological developments in the production of biopolymers. It also examines advances made in vaccines, gene therapy, bioremediation, biofuels, and biofertilizers.



CRC Press
February 2019:625
Hb: 978-1-439-80724-8: £190
Pb: 978-1-38-11665-8: £69.99
* For full contents and more information, visit: www.routledge.com/9781138116658

Nanobiotechnology for Green Environment**Edited by Amit Kumar, Chhotu Ram**

This book will focus on environmental friendly waste management, wastewater treatment and utilization of wastes for energy. The book examines environmental issues and their solutions with advancements in biotechnology and nanotechnology. This book will be useful for researchers, students, scientists and academicians who are working in multidisciplinary areas like microbiology, biotechnology, nanotechnology to address environmental issues such as water and wastewater treatment, solid waste management and energy resources. Nanobiotechnology for Green Environment covers a variety of environmental issues and how they could be solved through innovations in science, engineering and technology.



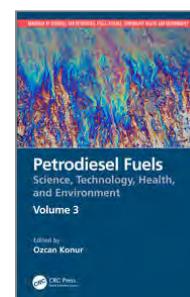
CRC Press
September 2023:276
Hb: 978-0-367-46068-6: £89.99
Pb: 978-0-367-69538-5: £44.99
eBook: 978-0-367-46136-2
* For full contents and more information, visit: www.routledge.com/9780367695385

Petrodiesel Fuels

Science, Technology, Health, and Environment

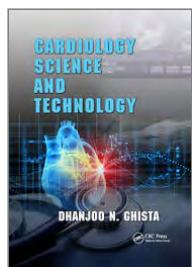
Edited by Ozcan KonurSeries: *Handbook of Biodiesel and Petrodiesel Fuels*

This book is part of a three volume set that covers the major research of petrodiesel and biodiesel fuels. This book examines petrodiesel fuels and its surrounding topics including desulfurization of petrodiesel fuels, diesel engines, performance and emissions of petrodiesel fuels, health impact of petrodiesel fuels, electricity production by petrodiesel fuels, and crude oils (production, upgrading, properties and characterization, spills and biodegradation, refining and wastewater treatment).



CRC Press
September 2023:406
Hb: 978-0-367-45616-0: £145
Pb: 978-0-367-70888-7: £44.99
eBook: 978-0-367-45625-2
* For full contents and more information, visit: www.routledge.com/9780367708887

Cardiology Science and Technology



Dhanjoo N. Ghista

This book deals with the bioengineering models of heart function, with applications in cardiology and cardiac surgery. It consists of two sections. The first covers left ventricular (LV) wall stress, cardiac contractility, ventricular remodeling, active wall stress and systolic pressure generation, and vector cardiogram characteristics, with applications in cardiology. The second covers ECG signal analysis for arrhythmias detection, LV pumping (intra-LV, aortic, and coronary flow) characteristics, and coronary bypass design, with applications in cardiology and cardiac surgery.

CRC Press

December 2019:564

Hb: 978-1-420-08806-9: £170

Pb: 978-0-367-86424-8: £66.99

eBook: 978-0-429-13720-4

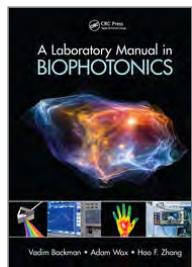
* For full contents and more information, visit: www.routledge.com/9780367864248



CRC Press
Taylor & Francis Group

www.routledge.com

A Laboratory Manual in Biophotonics



Vadim Backman, Adam Wax, Hao F. Zhang

The increasing use of optical techniques for biomedical applications has led to significant interest in biophotonics as a growing field. From its basic concepts to more advanced topics and applications, this book provides a complete guide to biophotonics. The author offers both descriptive and quantitative perspectives as well as a comprehensive overview of major areas of research in the field. The text includes coverage of topics such as light tissue interaction, optical instrumentation, microscopic and macroscopic tissue imaging, tissue spectroscopy, therapeutic applications of optics, and molecular imaging.

CRC Press

October 2023:320

Hb: 978-1-439-81051-4: £105

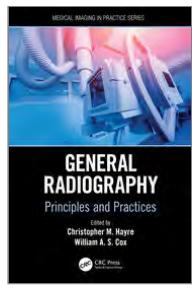
Pb: 978-1-032-65219-1: £44.99

eBook: 978-1-315-37485-7

* For full contents and more information, visit: www.routledge.com/9781032652191

General Radiography

Principles and Practices



Edited by Christopher M. Hayre, William A.S. Cox

Series: Medical Imaging in Practice

With chapters from globally recognized academics, this book shows a multifaceted approach to general radiography and how it enhances healthcare delivery. Potentially influential to how healthcare delivery is offered, it begins with the pertinent chapters examining image acquisition and dose optimization in diagnostic radiography. Next, chapters reflect and critically discuss aspects central to patient care, and imaging within trauma, critical care and pediatric situations. The final section of this book then explores the learning, teaching and education in the field of diagnostic radiography, with novel strategies illustrated.

CRC Press

February 2022:272

Hb: 978-0-367-14987-1: £145

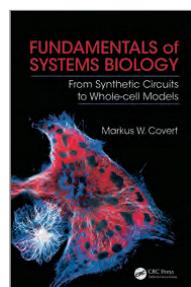
Pb: 978-0-367-49767-5: £68.99

eBook: 978-1-003-04727-8

* For full contents and more information, visit: www.routledge.com/9780367497675

Fundamentals of Systems Biology

From Synthetic Circuits to Whole-cell Models



Markus W. Covert

For decades biology has focused on decoding cellular processes one gene at a time, but many of the most pressing questions and diseases such as cancer and heart disease are related to the interaction of hundreds, or even thousands, of gene products. How do we begin to understand this complexity? Systems biology addresses this need, standing at the intersection of computational modeling and high-throughput molecular biology. This textbook introduces readers to the field, walking them through studies that are the foundation and frontier of systems biology.

CRC Press

December 2014:368

Hb: 978-1-138-45987-8: £185

Pb: 978-1-420-08410-8: £86.99

eBook: 978-1-315-22261-5

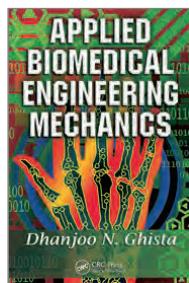
* For full contents and more information, visit: www.routledge.com/9781420084108



CRC Press
Taylor & Francis Group

www.routledge.com

Applied Biomedical Engineering Mechanics



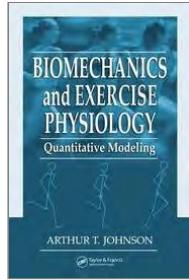
Dhanjoo Ghista

Presenting the latest innovations, this text highlights advances in tissue, musculoskeletal, locomotive, orthopedic, occupational, ergonomic, sports, cardiovascular, cardiac, and pulmonary biomechanics. Based on years of teaching experience, the author uses illustrative examples and detailed explanations to show how mechanics disciplines can be applied to a wide range of clinical applications, including the analysis of physiological and organ-system processes; the creation of physiologically compatible organ-assist systems and devices; the performance of pre-surgical analysis in order to develop optimal surgical approaches; and the design of vehicle-occupant systems for occupant comfort.

CRC Press
July 2008:552
Hb: 978-0-824-75831-8: £170
eBook: 978-0-429-12070-1
* For full contents and more information, visit: www.routledge.com/9780824758318

Biomechanics and Exercise Physiology

Quantitative Modeling



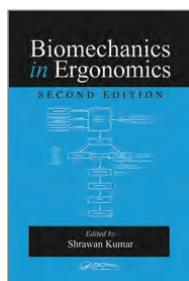
Arthur T. Johnson

Using numerous worked examples to demonstrate what and when to calculate, this text covers more than just the fundamentals of exercise physiology, it demonstrates the vast amount of physiological material that can be quantitatively predicted and how to translate this information into applications. The second edition improves upon the first by including more numerical examples, homework problems, margin notes, and updated material. Its five sections cover the energetics of exercise, biomechanics, circulation, respiration, and thermoregulation. Tables of values, diagrams, and figures make this book helpful for estimating magnitudes, determining trends, and illustrating concepts. Covering a broad range of material, the author emphasizes quantitative description as much as possible.

CRC Press
March 2007:684
Hb: 978-1-574-44906-8: £160
eBook: 978-0-429-13293-3
* For full contents and more information, visit: www.routledge.com/9781574449068

2ND EDITION

Biomechanics in Ergonomics



Edited by **Shrawan Kumar**

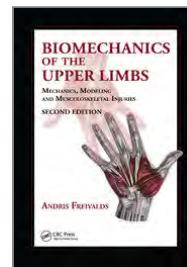
Two of the most important goals of ergonomics are the comfort, and the health and safety of the working population. Written by leaders in the field, this second edition of Biomechanics in Ergonomics presents thoroughly updated and new material regarding the biomechanics of tissues and organs in the workplace. This text establishes a foundation for the understanding of gross biomechanical loads on the human system at the tissue level. It describes biomechanical risk factors and supplies exposure assessment tools and techniques. Comprehensive in scope, the book is suitable for use by ergonomic engineers and physical therapists, and as a textbook for ergonomics courses.

CRC Press
December 2007:742
Hb: 978-0-849-37908-6: £150
eBook: 978-0-429-12513-3
* For full contents and more information, visit: www.routledge.com/9780849379086

2ND EDITION

Biomechanics of the Upper Limbs

Mechanics, Modeling and Musculoskeletal Injuries, Second Edition



Andris Freivalds

Over the past two decades, the growth in computer-related jobs has led to considerable increase in the number of work-related musculoskeletal disorders in the upper limbs. Now in its second edition, this comprehensive text is now expanded to include recent findings regarding job stressors and a variety of ergonomic solutions. It provides up-to-date research on the biomechanics of the upper limbs and the mechanics of neuromuscular systems. It covers risk factors for various disorders and tools used to identify their causes. Qualified instructors can access a supporting website offering materials such as PowerPoint slides and sample exams and an instructor's manual with complete solutions.

CRC Press
September 2018:564
Hb: 978-1-420-09119-9: £150
Pb: 978-1-138-07323-4: £52.99
eBook: 978-0-429-14498-1

* For full contents and more information, visit: www.routledge.com/9781138073234

Biomechanics

An Introduction to Musculoskeletal Modeling

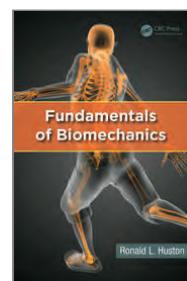


Krystyna Gielo-Perczak

This full-color biomechanics textbook comprehensively covers biomechanics theory, while emphasizing and encouraging students' creativity through interactive examples using professional computer simulation software. It provides novel problem-solving techniques based on learning experiments and interactive computer simulations with design feedback requirements. Drawing on the author's more than 10 years of teaching experience and influenced by an original learning model, this book teaches multidisciplinary methods of resolving and approaching complex problems, supported by mathematical analysis about how design parameters are influenced by a user's physical and strength capabilities.

CRC Press
December 2025:425
Hb: 978-1-439-87201-7: £57.99
* For full contents and more information, visit: www.routledge.com/9781439872017

Fundamentals of Biomechanics



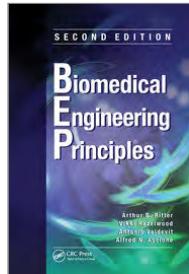
Ronald L. Huston

This textbook provides a comprehensive survey of how the principles of mechanics are applied to human systems and organs. After a review of terminology, a summary of human anatomy, and a presentation of anthropometric data, the text discusses methods for biomechanical analyses including essential mathematics, mechanics, and modeling techniques. It then covers tissue biomechanics, kinematics and dynamics of human body models, and applications such as lifting, walking, swimming, and accident victim simulation.

CRC Press
April 2013:470
Hb: 978-1-466-51037-1: £105
eBook: 978-0-429-09883-3
* For full contents and more information, visit: www.routledge.com/9781466510371

2ND EDITION

Biomedical Engineering Principles



Arthur B. Ritter, Vikki Hazelwood, Antonio Valdevit, Alfred N. Ascione

Integrating engineering, medicine, biology, and physics, this book clearly defines basic principles in image processing and biomechanics, modeling physiological processes, and bioelectric signal analysis to build a solid understanding of devices and designs for improved functioning of the human body. It includes cutting-edge discussions of tissue engineering, cardiovascular components, bone regrowth, and nerve regeneration. Other topics include technologies at the forefront of cardiac care, such as total artificial hearts, left ventricular assist devices, and stents, as well as issues related to minimally invasive and robotic surgery, next-generation imaging devices, and nanodevices.

CRC Press

June 2018:544

Hb: 978-1-439-81232-7: £150

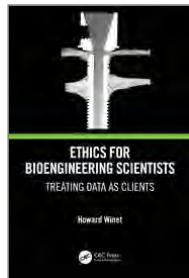
Pb: 978-1-138-07324-1: £52.99

eBook: 978-0-429-13086-1

* For full contents and more information, visit: www.routledge.com/9781138073241

Ethics for Bioengineering Scientists

Treating Data as Clients



Howard Winet

This book introduces bioengineers who must generate and/or report scientific data to the ethical challenges they will face in preserving the integrity of their data. It provides the perspective of reaching ethical decisions via pathways that treat data as clients to whom they owe a responsibility that is an existential component of their professional identity. The book was developed for advanced undergraduate and graduate students in bioengineering. It also contains much needed material that researchers and academics would find valuable (e.g., FDA material and lab animal research).

CRC Press

December 2021:342

Hb: 978-1-032-05235-9: £170

Pb: 978-1-032-05354-7: £64.99

eBook: 978-1-003-19721-8

* For full contents and more information, visit: www.routledge.com/9781032053547

4TH EDITION

Introduction to Biomedical Engineering Technology, 4th Edition

Health Technology Management



Laurence J. Street

This updated fourth edition provides current information on devices and is divided into diagnostic and treatment sections. Devices are described with the theory of operation, relevant anatomical and physiological considerations. Aspects of BMET work including test equipment, standards and information technology are also discussed. This new edition also includes two new chapters on computers, Information Technology and networking as well as health technology management. This book is intended for students in BMET/HTM programs as well biomedical engineering students. Field service representatives, medical device designers, and medical device sales representatives would also find it useful.

CRC Press

August 2022:442

Hb: 978-0-367-68700-7: £120

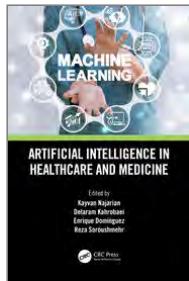
eBook: 978-1-003-14060-3

* For full contents and more information, visit: www.routledge.com/9780367687007

CRC Press
Taylor & Francis Group

www.routledge.com

Artificial Intelligence in Healthcare and Medicine



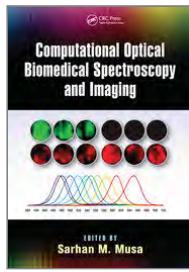
Edited by **Kayvan Najarian, Delaram Kahrobaei, Enrique Dominguez, Reza Soroushmehr**

It is widely believed that Artificial Intelligence (AI) and its applications will revolutionize healthcare and medicine. This book provides a comprehensive overview on the recent developments on clinical decision support systems, precision health and data science in medicine. The book is intended for clinical researchers and computational scientists seeking to understand the recent advances of AI in health and medicine. Many universities may use the book as a secondary training text. Companies in the healthcare sector can greatly benefit from the case studies covered in the book.

CRC Press
April 2022:300
Hb: 978-0-367-61917-6: £130
eBook: 978-1-003-12090-2

* For full contents and more information, visit: www.routledge.com/9780367619176

Computational Optical Biomedical Spectroscopy and Imaging



Edited by **Sarhan M. Musa**

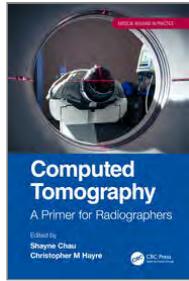
Growth in the use of computational optical technology for biomedical research and health care has been explosive. New applications are made possible by emerging technologies in lasers, optical devices, fiber optics, spectroscopy, and imaging, all of which are being applied to medical research, diagnostics, and therapy. This book covers recent discoveries and research in the field by some of the best inventors and researchers in the world. It presents useful computational methods and applications used in optical biomedical spectroscopy and imaging. The book also discusses future applications, directions, opportunities, and challenges in technical industry, academia, and government.

CRC Press
April 2018:476
Hb: 978-1-482-23081-9: £230
Pb: 978-1-138-74850-7: £82.99
eBook: 978-0-429-16023-3

* For full contents and more information, visit: www.routledge.com/9781138748507

Computed Tomography

A Primer for Radiographers



Edited by **Shayne Chau, Christopher M. Hayre**

Series: *Medical Imaging in Practice*

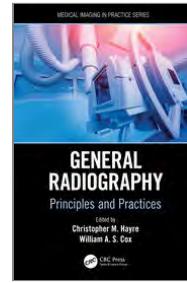
This book aims to provide a holistic picture of computed tomography, focusing on the multi-faceted elements of radiation physics, imaging protocols and image evaluation. It will provide readers with insight into practical and innovative technical approaches within the general imaging field, backed up with existing evidence-based research. This edited volume will focus on the role of computed tomography for an array of audiences, but more specifically to undergraduate and postgraduate radiographers or CT technologists.

CRC Press
September 2022:340
Hb: 978-0-367-67724-4: £215
Pb: 978-0-367-67549-3: £84.99
eBook: 978-1-003-13255-4

* For full contents and more information, visit: www.routledge.com/9780367675493

General Radiography

Principles and Practices



Edited by **Christopher M. Hayre, William A.S. Cox**

Series: *Medical Imaging in Practice*

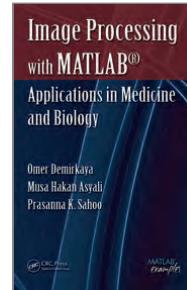
With chapters from globally recognized academics, this book shows a multifaceted approach to general radiography and how it enhances healthcare delivery. Potentially influential to how healthcare delivery is offered, it begins with the pertinent chapters examining image acquisition and dose optimization in diagnostic radiography. Next, chapters reflect and critically discuss aspects central to patient care, and imaging within trauma, critical care and pediatric situations. The final section of this book then explores the learning, teaching and education in the field of diagnostic radiography, with novel strategies illustrated.

CRC Press
February 2022:272
Hb: 978-0-367-14987-1: £145
Pb: 978-0-367-49767-5: £68.99
eBook: 978-1-003-04727-8

* For full contents and more information, visit: www.routledge.com/9780367497675

Image Processing with MATLAB

Applications in Medicine and Biology



Edited by **Omer Demirkaya, Musa H. Asyali, Prasanna K. Sahoo**

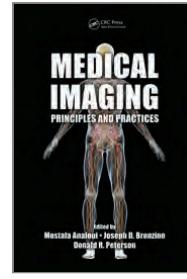
Focusing on the biological and medical applications, illustrated with real-world examples, this book provides an understanding of image processing techniques that goes beyond theory and fundamentals. The authors discuss advanced subjects, such as mixture modeling and Markov random field modeling-based image segmentation, as well as emerging topics including anisotropic diffusion filtering. This comprehensive text provides MATLAB® codes, exercises, homework problems, and case studies, as well as a wide range of algorithms that can be used separately or in combination with a variety of applications. Selected Contents: Introduction. Examples of Basic Image Processing. Image Simulation. Examples of 3D Processing. References.

CRC Press
December 2008:458
Hb: 978-0-849-39246-7: £130
eBook: 978-0-429-11846-3

* For full contents and more information, visit: www.routledge.com/9780849392467

Medical Imaging

Principles and Practices



Edited by **Mostafa Analoui, Joseph D. Bronzino, Donald R. Peterson**

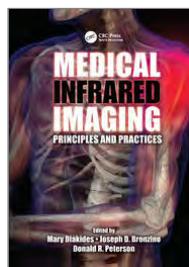
This book offers a selective review of key imaging modalities focusing on modalities with established clinical utilization. It provides a detailed overview of x-ray imaging and computed tomography, fundamental concepts in signal acquisition and processes, followed by an overview of functional MRI (fMRI) and chemical shift imaging. It also covers topics in Magnetic Resonance Microscopy, the physics of instrumentation and signal collection, and their application in clinical practice. The selection of topics provides readers with an appreciation of the depth and breadth of the field and the challenges ahead of the technical and clinical community of researchers and practitioners.

CRC Press
November 2012:464
Hb: 978-1-439-87102-7: £145
eBook: 978-0-429-10709-2

* For full contents and more information, visit: www.routledge.com/9781439871027

Medical Infrared Imaging

Principles and Practices



Edited by Mary Diakides, Joseph D. Bronzino, Donald R. Peterson

This book explores new ideas, concepts, and technologies such as dynamic thermal imaging, thermal texture mapping, and thermal multispectral imaging commonly used in the clinical environment. The coverage ranges from historical background, concepts, clinical applications, standards, and infrared technology. Of interest to the medical and biomedical engineering communities, the book can provide many opportunities for developing and conducting multidisciplinary research in many areas of medical infrared imaging.

CRC Press

March 2017:640

Hb: 978-1-439-87249-9: £150

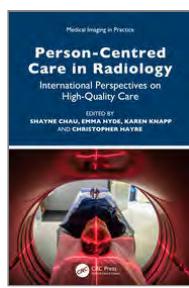
Pb: 978-1-138-07229-9: £56.99

eBook: 978-0-429-10747-4

* For full contents and more information, visit: www.routledge.com/9781138072299

Person-Centred Care in Radiology

International Perspectives on High-Quality Care



Edited by Shayne Chau, Emma Hyde, Karen Knapp, Christopher Hayre

Series: Medical Imaging in Practice

This edited book focuses on the application of patient care within the three specialisms: diagnostic radiography, radiotherapy and oncology, and nuclear medicine and molecular imaging. This book will act as a 'primer' for undergraduate students, but importantly 'signpost' to other key texts within the field. Further, academics will find this text useful as it aims to enrich scholarly learning, teaching and assessment to healthcare programmes nationally and internationally.

CRC Press

April 2024:460

Hb: 978-1-032-31529-4: £170

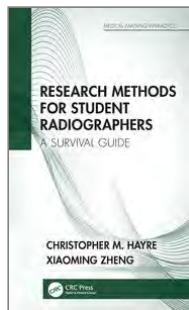
Pb: 978-1-032-30464-9: £68.99

eBook: 978-1-003-31014-3

* For full contents and more information, visit: www.routledge.com/9781032304649

Research Methods for Student Radiographers

A Survival Guide



Christopher M. Hayre, Xiaoming Zheng

Series: Medical Imaging in Practice

This book aims to provide a holistic picture of the application of research in radiography focusing on the multi-variant methodological approaches and practices. It will provide readers with an insight into both contemporary and innovative methods within radiography, backed up with existing evidence-based research. The targeted audience for this book is multifaceted, yet it will primarily be a book that facilitates undergraduate radiography students due to the central research methods learning undertaken academically. Therefore, it will provide a useful tool for academics delivering undergraduate radiography programmes.

CRC Press

September 2021:206

Hb: 978-0-367-55871-0: £170

Pb: 978-0-367-55933-5: £66.99

eBook: 978-0-367-55931-1

* For full contents and more information, visit: www.routledge.com/9780367559335

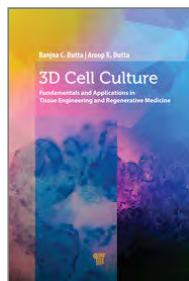


CRC Press
Taylor & Francis Group

www.routledge.com

3D Cell Culture

Fundamentals and Applications in Tissue Engineering and Regenerative Medicine



Ranjna C. Dutta, Aroop K. Dutta

3D cell culture is yet to be adopted and exploited to its full potential. It promises to upgrade and bring our understanding about human physiology to the highest level with the scope of applying the knowledge for better diagnosis as well as therapeutics. The focus of this book is on the direct impact of novel technologies and their evolution into viable products for the benefit of human race. It also describes the fundamentals of cell microenvironment to bring forth the relevance of 3D cell culture in tissue engineering and regenerative medicine.

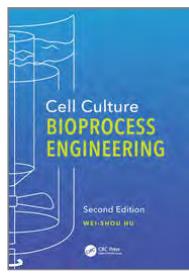
Jenny Stanford Publishing
April 2018:226

Hb: 978-9-814-77453-6: £76.99
eBook: 978-1-315-14682-9

* For full contents and more information, visit: www.routledge.com/9789814774536

2ND EDITION

Cell Culture Bioprocess Engineering, Second Edition



Wei-Shou Hu

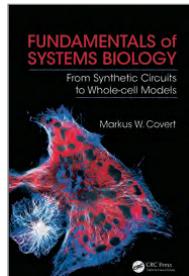
This book is the culmination of two decades of accumulated experience in teaching biotechnology professionals. It distills the fundamental principles and essential knowledge of cell culture processes from across many different disciplines and presents them in a series of easy-to-follow, comprehensive chapters. Practicality, including technological advances and best practices, are emphasized.

CRC Press
March 2020:466
Pb: 978-1-498-76285-4: £110
eBook: 978-0-429-16277-0

* For full contents and more information, visit: www.routledge.com/9781498762854

Fundamentals of Systems Biology

From Synthetic Circuits to Whole-cell Models



Markus W. Covert

For decades biology has focused on decoding cellular processes one gene at a time, but many of the most pressing questions and diseases such as cancer and heart disease are related to the interaction of hundreds, or even thousands, of gene products. How do we begin to understand this complexity? Systems biology addresses this need, standing at the intersection of computational modeling and high-throughput molecular biology. This textbook introduces readers to the field, walking them through studies that are the foundation and frontier of systems biology.

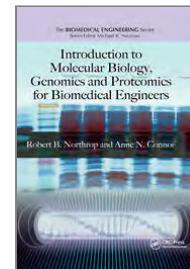
CRC Press
December 2014:368
Hb: 978-1-138-45987-8: £185
Pb: 978-1-420-08410-8: £86.99
eBook: 978-1-315-22261-5

* For full contents and more information, visit: www.routledge.com/9781420084108

Introduction to Molecular Biology, Genomics and Proteomics for Biomedical Engineers

Robert B. Northrop, Anne N. Connor

A unique introductory text, this book is written for engineers and scientists with little background in molecular biology, genomics, and proteomics, who are working with, or planning to work with, living systems. The authors assume familiarity with basic calculus, physics, and linear algebra. They describe the very complex biochemical relations that permit life to exist, highlighting the specialized organic molecules in living organisms, and how they interact and react. This is a professional primer, not intended as a replacement for formal, in-depth course work, but intended to broaden the background and pique the interest of those new to this area.



CRC Press
September 2019:480
Hb: 978-1-420-06119-2: £145
Pb: 978-0-367-38655-9: £59.99
eBook: 978-0-429-14876-7

* For full contents and more information, visit: www.routledge.com/9780367386559

Molecular Engineering

Principles and Applications

Moonsoo M. Jin

This book is designed to help students interested in biomedical engineering learn the essential concepts of biology and molecular biology. Serving as a practical guide to molecular engineering, the book will help students realize the unique approach they can take to tackle modern biomedical problems and challenges, given their training in physics, mathematics, chemistry, and other quantitative topics.

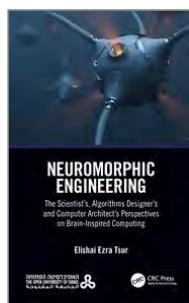


CRC Press
December 2025:450
Hb: 978-1-466-59703-7: £76.99

* For full contents and more information, visit: www.routledge.com/9781466597037

Neuromorphic Engineering

The Scientist's, Algorithms Designer's and Computer Architect's Perspectives on Brain-Inspired Computing



Elishai Ezra Tsur

This book will cover the fundamentals of neuromorphic engineering, focusing on the digital neuron model for neuro-synaptic cores, cognitive programming paradigms and algorithms, neuromorphic circuits and applications for networks of neuro-synaptic cores. This book is designed for graduate students in the fields of computer science, electrical engineering, neuroscience and computational biology.

CRC Press

September 2023:330

Hb: 978-0-367-67680-3: £110

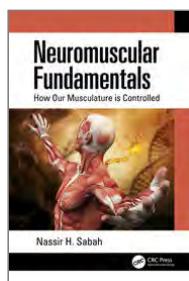
Pb: 978-0-367-69838-6: £45.99

eBook: 978-1-003-14349-9

* For full contents and more information, visit: www.routledge.com/9780367698386

Neuromuscular Fundamentals

How Our Musculature is Controlled



Nassir H. Sabah

The book is concerned with the operation of the neuromuscular system, which is the part of our nervous system that enables us to maintain an upright posture and allows voluntary or involuntary movement of our limbs and other body parts. The approach is essentially that of an engineering textbook, emphasizing the quantitative aspects and highlighting the fundamentals and basic concepts involved. The coverage progresses in a logical and systematic manner from the subcellular, starting with the electrophysiology of the cell membrane, then proceeding to synapses, neurons, and muscle, before considering neuronal motor ensembles and the neuromuscular system as a whole.

CRC Press

January 2024:574

Hb: 978-0-367-45692-4: £130

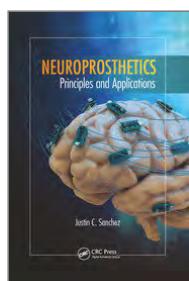
Pb: 978-0-367-55286-2: £44.99

eBook: 978-1-003-02479-8

* For full contents and more information, visit: www.routledge.com/9780367552862

Neuroprosthetics

Principles and Applications



Justin C. Sanchez

Series: Rehabilitation Science in Practice Series

The study of neuroprosthetics deals with the theory and design of direct neural interfaces for delivering therapy and restoring functionality to disabled individuals. A focus is on "bench to bedside" technologies which will develop neuroprosthetic devices and translate them into a clinical setting. This is the first true primary text for graduate students in departments of bioengineering that covers the theory and applications behind this science.

CRC Press

July 2017:256

Hb: 978-1-466-55323-1: £110

Pb: 978-1-138-74944-3: £59.99

eBook: 978-1-351-22882-4

* For full contents and more information, visit: www.routledge.com/9781138749443

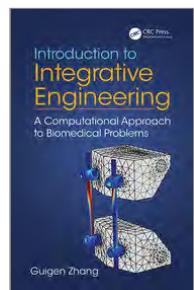


CRC Press
Taylor & Francis Group

www.routledge.com

Introduction to Integrative Engineering

A Computational Approach to Biomedical Problems



Guigen Zhang

This textbook is designed for an introductory course at undergraduate and graduate levels for bioengineering students. It provides a systematic way of examining bioengineering problems in a multidisciplinary computational approach. The book introduces basic concepts of multidiscipline-based computational modeling methods, provides detailed step-by-step techniques to build a model with consideration of underlying multiphysics, and discusses many important aspects of a modeling approach including results interpretation, validation, and assessment.

CRC Press

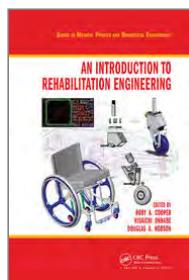
March 2017:446

Hb: 978-1-466-57228-7: £115

eBook: 978-1-315-38846-5

* For full contents and more information, visit: www.routledge.com/9781466572287

An Introduction to Rehabilitation Engineering



Edited by **Rory A Cooper, Hisaichi Ohnabe, Douglas A. Hobson**

Series: *Series in Medical Physics and Biomedical Engineering*

This resource focuses on the principles, modeling, standards, devices, and technologies of rehabilitation engineering and assistive technology. It describes numerous design models and processes, including participatory action design and service delivery models. The book also discusses the components of devices such as cushions, wheelchairs, prostheses, orthoses, hearing aids, and TTYs. The contributors assess industry standards and explore innovative technology aids, such as sensors, robot-assisted therapy, and speech recognition software. The text contains a set of learning objectives and study questions in each chapter as well as a list of definitions at the end of the book.

CRC Press

December 2006:470

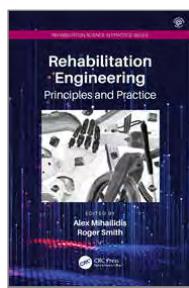
Hb: 978-0-849-37222-3: £84.99

eBook: 978-0-429-14658-9

* For full contents and more information, visit: www.routledge.com/9780849372223

Rehabilitation Engineering

Principles and Practice



Edited by **Alex Mihailidis, Roger Smith**

Series: *Rehabilitation Science in Practice Series*

This book will provide an overview of the rehabilitation engineering field, including key concepts that are required to provide a solid foundation about the discipline. It will present these concepts through a mix of basic and applied knowledge from rehabilitation engineering research and practice. It's written as an introductory text in order to provide access to the field by those without previous experience or background in the field. These concepts will include those related to engineering and health that are necessary to understand the application of rehabilitation engineering to support human function.

CRC Press

November 2022:686

Hb: 978-1-138-19826-5: £105

eBook: 978-1-315-27048-7

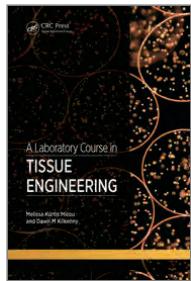
* For full contents and more information, visit: www.routledge.com/9781138198265



CRC
Press
Taylor & Francis Group

www.routledge.com

A Laboratory Course in Tissue Engineering



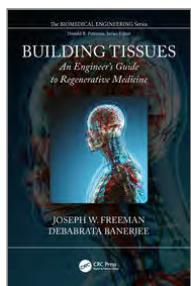
Melissa Kurtis Micou, Dawn Kilkenny

This book fills the need for a hands-on lab manual for tissue engineering instruction. Providing more than a semester's worth of activities, it contains fifteen standalone experiments based on both classic and modern approaches. Experiments encompass a set of widely applicable techniques: cell culture, microscopy, histology, immunohistochemistry, mechanical testing, soft lithography, and common biochemical assays. In addition to teaching these specific techniques, the experiments emphasize engineering analysis, mathematical modeling, and statistical experimental design. To minimize lab costs, experiments use equipment commonly found in labs equipped for tissue culture.

CRC Press
August 2012:304
Hb: 978-1-138-40735-0: £175
Pb: 978-1-439-87893-4: £66.99
eBook: 978-0-429-10108-3
* For full contents and more information, visit: www.routledge.com/9781439878934

Building Tissues

An Engineer's Guide to Regenerative Medicine



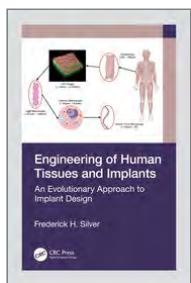
Joseph W. Freeman, Debabrata Banerjee

In order to effectively replace and regenerate a tissue, engineers must be familiar with mechanics, diffusion, electrical conductivity, heat transfer, kinetics, and a host of other concepts that are frequently studied. Each of these concepts is exposed in this book through descriptive introductions followed by mathematical equations with example problems. After the concepts have been introduced, they will be applied to specific tissues and regenerative techniques. Students will be able to see how the concepts are applied differently from one tissue or structure to the next and how one concept may be more important to one tissue than it is to another.

CRC Press
May 2024:233
Hb: 978-1-498-74280-1: £115
Pb: 978-1-032-65233-7: £44.99
eBook: 978-0-429-42902-6
* For full contents and more information, visit: www.routledge.com/9781032652337

Engineering of Human Tissues and Implants

An Evolutionary Approach to Implant Design



Frederick H. Silver

This book presents information on biological control systems, mechanotransduction, tissue structure, and function, and properties that can be integrated together to provide improved implant and device designs. This information is needed to develop new diagnostic tests and instruments that provide early diagnostic tests and treatments for diseases. It also introduces mechanotransduction as it relates to implant design with an overview of materials and their use in applications to treat wounds, burns, facial, hernial, ophthalmic, oral, cardiovascular, and tendon/ligaments.

CRC Press
May 2024:216
Hb: 978-1-032-39902-7: £110
* For full contents and more information, visit: www.routledge.com/9781032399027

Mechanobiology of Living Systems

Jonathan T Butcher

This text brings together mechanobiology theory, approaches, and applications in a format appropriate for readers with some mathematical and biological exposure. It begins by explaining fundamental mechanobiological principles in a sequential ground up approach that includes key terminology. Next, it identifies the *in vivo* mechanical environment of biological systems. Maintaining a focus on mechanobiology fundamentals, it includes example questions drawn from a variety of organ systems, lower organisms, and plants. This comprehensive resource includes example problems in each chapter as well as sections on experimental methods.

CRC Press
December 2027:700
Hb: 978-1-439-80668-5: £76.99
* For full contents and more information, visit: www.routledge.com/9781439806685

Nanotechnology in Tissue Engineering and Regenerative Medicine

Edited by Ketul Popat

Referred to as "nanomedicine" or "nanobiomedicine," the application of nanotechnology to medicine can impact diagnosis, monitoring, and treatment of diseases as well as control and understanding of biological systems. Bringing together an unparalleled field of experts, this volume explores various aspects of nanotechnology and its applications in biomedical fields. The book uses an application-based approach to relate laboratory-based research to the development of technologies that can be readily adaptable to an industrial environment, focusing chiefly on drug delivery, tissue engineering, and regenerative medicine.

CRC Press
October 2019:302
Hb: 978-1-439-80141-3: £145
Pb: 978-0-367-38332-9: £59.99
eBook: 978-0-429-09319-7
* For full contents and more information, visit: www.routledge.com/9780367383329

Regenerative Engineering

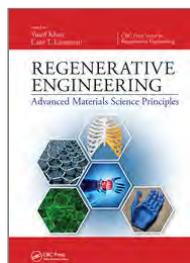
Edited by Cato T. Laurencin, Yusuf Khan

Regenerative engineering is the intersection of regenerative medicine and tissue engineering. Regenerative medicine focuses on the biological aspects of tissue regeneration via stem cells, factors, and cytokines, while tissue engineering focuses on the integration of materials science and life sciences. This book integrates these two areas, presenting each concept in the framework of regenerative engineering. Through the combination of fundamental lecture-based teaching and problem-based learning approaches, it is the goal of this textbook to develop students into future researchers capable of completing the translation of their work from the benchtop to the bedside.

CRC Press
November 2018:435
Hb: 978-1-439-81412-3: £145
Pb: 978-1-138-07517-7: £52.99
eBook: 978-0-429-15833-9
* For full contents and more information, visit: www.routledge.com/9781138075177

Regenerative Engineering

Advanced Materials Science Principles



Edited by **Yusuf Khan, Cato T. Laurencin**

This book focuses on both advances in materials science and in scaffold development techniques, paying close attention to state-of-the-art research. Each chapter will delve into specific materials categories (e.g. composite materials, bioactive ceramics, etc.) and how these materials are specifically designed for regenerative engineering applications. There will also be unique chapters on Biologically Derived Scaffolding along with 3-D Printing Technology for Regenerative Engineering.

CRC Press

October 2023:164

Hb: 978-1-498-73824-8: £210

Pb: 978-1-032-65232-0: £44.99

eBook: 978-1-315-12107-9

* For full contents and more information, visit: www.routledge.com/9781032652320

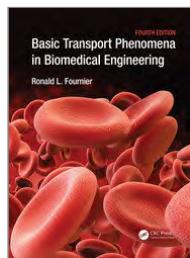


CRC Press
Taylor & Francis Group

www.routledge.com

4TH EDITION

Basic Transport Phenomena in Biomedical Engineering



Ronald L. Fournier

Catalog no. K32751 September 2017 c. 624 pp. ISBN: 978-1-138-74953-5 \$169.95 / £130.00 This will be a substantial revision of a good selling text for upper division/first graduate courses in biomedical transport phenomena, offered in many departments of biomedical and chemical engineering. Each chapter will be updated accordingly, with new problems and examples incorporated where appropriate. A particular emphasis will be on new information related to tissue engineering and organ regeneration. A key new feature will be the inclusion of complete solutions within the body of the text, rather than in a separate solutions manual. Also, Matlab will be incorporated for the first time with this Fourth Edition.

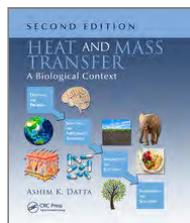
CRC Press
August 2017:656
Hb: 978-1-498-76871-9: £160
Pb: 978-1-138-74953-5: £59.99
eBook: 978-1-315-12047-8

* For full contents and more information, visit: www.routledge.com/9781138749535

2ND EDITION

Heat and Mass Transfer

A Biological Context, Second Edition



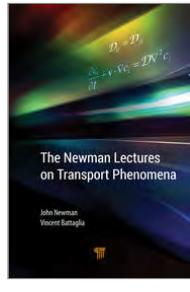
Ashim K. Datta

This substantially revised text represents a broader based biological engineering title. It includes medicine and other applications that are desired in curricula supported by the American Society of Agricultural and Biological Engineers, as well as many bioengineering departments in both U.S. and worldwide departments. This new edition will focus on a significant number of biological applications, problem-solving techniques, and solved examples. Specifically there will be 160+ interesting application problems over an extended biological base (biomedical, bioenvironmental, etc.) that were originally developed by the author throughout his 13 years of teaching this course at Cornell.

CRC Press
January 2017:676
Hb: 978-1-138-03360-3: £150
eBook: 978-0-429-22544-4

* For full contents and more information, visit: www.routledge.com/9781138033603

The Newman Lectures on Transport Phenomena



Edited by John Newman, Vincent Battaglia

This book demonstrates how to solve for the velocity profile of the classic problems of fluid mechanics, starting with Navier-Stokes equation. It explains when it is appropriate to simplify a problem by neglecting certain terms through proper dimensional analysis. It covers concepts such as basic relations of fluid mechanics, microscopic interpretation of fluxes, concentrations and velocities in mixtures, multicomponent diffusion, entropy production and implications for transport properties, Lighthill's transformations, etc. It is as much a thesis on transport phenomena as it is in applied mathematics, and it amply arms any serious problem solver with the tools to address any problem.

Jenny Stanford Publishing
November 2020:324
Hb: 978-9-814-77427-7: £37.99
eBook: 978-1-315-10829-2

* For full contents and more information, visit: www.routledge.com/9789814774277

Transport Phenomena

Theory, Modeling and Application

Ayodeji A. Jeje, Jalel Azaiez

Transport phenomena is the generic title for processes involving the transfer of momentum, heat, and mass within and across boundaries. At its core, this has many applications to chemical engineering as well as to bioengineering and biotechnology. It also has effects within petroleum and environmental engineering. This work focuses on helping students learn how to transform problems into appropriate equations, choosing the right level of analysis and interpreting the results for unit operation processes of heat, mass, and momentum transfer.

Cover Image
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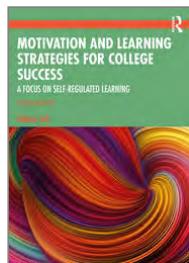
CRC Press
June 2025:800
Hb: 978-1-482-23765-8: £95

* For full contents and more information, visit: www.routledge.com/9781482237658

7TH EDITION

Motivation and Learning Strategies for College Success

A Focus on Self-Regulated Learning

**Helena Seli**

Now in its 7th edition, *Motivation and Learning Strategies for College Success: A Focus on Self-Regulated Learning* provides a framework organized around motivation, methods of learning, time management, control of the physical and social environment, and monitoring performance that makes it easy for students to recognize what they need to do to become successful learners. Full of rich pedagogical features and exercises, students will find Follow-Up Activities, Opportunities for Reflection, Chapter-End Reviews, Key Points, and a Glossary.

Routledge

August 2023:304

Hb: 978-1-032-47255-3: £130

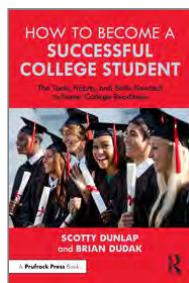
Pb: 978-1-032-47020-7: £48.99

eBook: 978-1-003-38527-1

* For full contents and more information, visit: www.routledge.com/9781032470207

How to Become a Successful College Student

The Tools, Habits, and Skills Needed to Foster College Readiness

**Scotty Dunlap, Brian Dudak**

This book is your one-stop shop for the academic tools and habits needed to make your transition from high school to college a resounding success! The shift from high school to college can be a challenge, with many students finding the skills that had previously worked so well no longer seem to be enough. *How to Become a Successful College Student* outlines the strategies you need to 'level up' your current processes in order to foster learning and retention of information in a new and rigorous environment. This guide is a must-have resource for anyone who wants to maximize their higher education experience.

Pruferick Press

November 2023:202

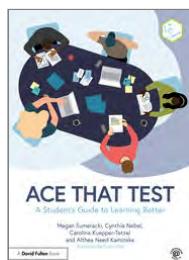
Pb: 978-1-032-52409-2: £12.99

eBook: 978-1-003-41268-7

* For full contents and more information, visit: www.routledge.com/9781032524092

Ace That Test

A Student's Guide to Learning Better

**Megan Sumeracki, Cynthia Nebel, Carolina Kuepper-Tetzl, Althea Need Kaminske**

This exciting new text reveals the effective study strategies that will help you to use your time more efficiently, ace your tests, and retain information over time. In full colour and accompanied by beautifully illustrated graphics, *Ace That Test* offers evidence-based learning strategies that students can use during their study sessions, including dual coding and the power of retrieving what they know. With QR codes linking to answers to embedded questions and supplemental material, this is essential reading for college, university, and school students as well as educators teaching study skills or learning to learn courses.

Routledge

July 2023:146

Hb: 978-1-032-35586-3: £120

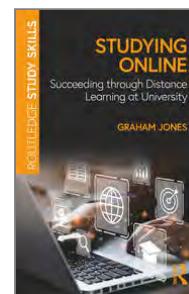
Pb: 978-1-032-35585-6: £16.99

eBook: 978-1-003-32753-0

* For full contents and more information, visit: www.routledge.com/9781032355856

Studying Online

Succeeding through Distance Learning at University

**Graham Jones***Series: Routledge Study Skills*

Helping you get to grips with online learning, this book contains a wealth of practical tips and strategies that will make studying online easier. Covering the advantages of online learning as well as the problems you might face, this book provides tried and tested advice to help you overcome those difficulties so that you can work to the best of your abilities. Identifying techniques designed specifically for studying online, with step-by-step instructions, as well as guidance on using online study software to the best effect, this must-have student companion provides tips and tricks to make university distance studying both effective and enjoyable.

Routledge

July 2022:244

Hb: 978-1-032-19538-4: £120

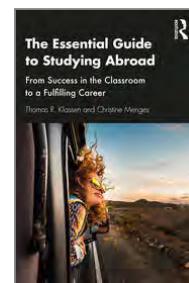
Pb: 978-1-032-19539-1: £16.99

eBook: 978-1-003-25969-5

* For full contents and more information, visit: www.routledge.com/9781032195391

The Essential Guide to Studying Abroad

From Success in the Classroom to a Fulfilling Career

**Thomas R. Klassen, Christine Menges**

This book is an indispensable how-to-guide on flourishing when studying abroad, and how to use an international education to begin a fulfilling career after graduation. Written in an engaging and accessible style, using many examples, case studies and links to resources, the book reduces the stress of studying abroad. Covering all aspects of the international student experience – inside and outside the classroom – the book encourages young people to perform their very best and succeed in their new environment. International students preparing for cross cultural learning and recent graduates looking for employment will find this book both practical and inspiring.

Routledge

August 2019:238

Hb: 978-0-367-23515-4: £130

Pb: 978-0-367-23516-1: £31.99

eBook: 978-0-429-28011-5

* For full contents and more information, visit: www.routledge.com/9780367235161

How to Solve A Problem

Insights for Critical Thinking, Problem-Solving, and Success in College

**Kelling J. Donald**

This concise and accessible resource offers new college students, especially those in science degree programs, guidance on engaging successfully with the classroom experience and skillfully tackling technical or scientific questions. The author provides insights on identifying, from the outset, individual markers for what success in college will look like for students, how to think about the engagement with professors as a partnership, and how to function effectively in that partnership toward achieving their pre-defined goals or markers of success. It is an ideal companion for science degree prospects and first-generation students seeking insight into the college experience.

CRC Press

April 2023:152

Hb: 978-1-032-20368-3: £56.99

Pb: 978-1-032-20361-4: £22.99

eBook: 978-1-003-26334-0

* For full contents and more information, visit: www.routledge.com/9781032203614

Making Your Doctoral Research Project Ambitious

Developing Large-Scale Studies with Real-World Impact



Edited by **Nadia Siddiqui, Stephen Gorard**

This edited collection provides real and outstanding examples of multiple research design methodologies which will allow doctoral researchers to develop a wide set of research skills, leading to the development of a high-quality academic thesis from which peer reviewed research papers and books can emerge. Ideal reading for doctoral students and supervisors, this book is a source of encouragement and motivation for new researchers seeking to challenge general perceptions in the social sciences that PhD or other doctoral research projects must be small-scale rather trivial studies, but can instead produce robust findings that have real-world implications.

Routledge

April 2022:278

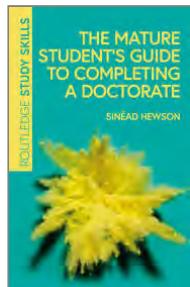
Hb: 978-1-032-05975-4: £130

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The Mature Student's Guide to Completing a Doctorate



Sinéad Hewson

Series: *Routledge Study Skills*

Carefully structured to make it accessible and easy to follow, this thought-provoking book encourages the reader to facilitate a dialogue across disciplines so that unconventional students are acknowledged and can discover a successful path towards admission and PhD completion. It is a must-read for advanced academic researchers, advanced post-graduate students and experienced professionals with vocational backgrounds who are seeking recognition for their knowledge and alternative pathways to contribute to the sector.

Routledge

April 2024:280

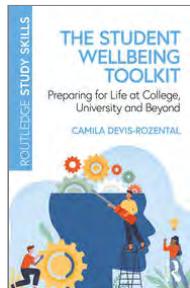
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The Student Wellbeing Toolkit

Preparing for Life at College, University and Beyond



Camila Devis-Rozental

Series: *Routledge Study Skills*

The Student Wellbeing Toolkit puts wellbeing at the centre of your journey into university and beyond. By encouraging self-efficacy and a focus on the things you can control. It provides clear guidance to enhance wellbeing and opportunities for self-reflection that help develop self-awareness and prosocial skills for life. Drawing on research evidenced theories around positive psychology, theories of learning, motivation, and self-development, the book explores what, how, and why these areas are key to our wellbeing and the rationale for taking them into account to enable you to flourish and thrive at university.

Routledge

June 2023:286

Hb: 978-1-032-32965-9: £130

Pb: 978-1-032-32966-6: £16.99

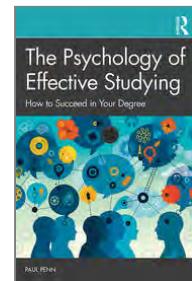
eBook: 978-1-003-31754-8

* For full contents and more information, visit: www.routledge.com/9781032329666

The Psychology of Effective Studying

How to Succeed in Your Degree

Paul Penn



This book provides a vital guide for students to key study skills that are instrumental in success at university. It uses a combination of research from cognitive psychology, humour and practical examples to convey where students often go fundamentally wrong in their studying practices and provides clear and concise advice on how they can improve. The book covers time management, academic integrity, writing essays, team work, and other key required skills for academic study. Written in a humorous and irreverent tone, and including illustrations and examples from popular culture, this is the ideal alternative and accessible study skills resource for any student at undergraduate level.

Routledge

August 2019:244

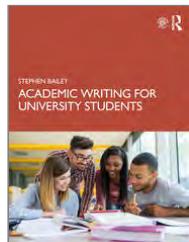
Hb: 978-1-138-57090-0: £115

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Stephen Bailey

Designed to help students succeed in writing university-level essays and reports, this book has been carefully designed for use both in the classroom and for self-study. Covering three key areas: the writing process, elements of writing and writing models, it encourages critical writing and developing a voice. Academic Writing in the University provides all of the tools necessary to produce excellent written work. With progress checks, practical examples and self-testing units, this practical, user-friendly book covers all stages of the writing process and is an invaluable guide to academic writing in the university.

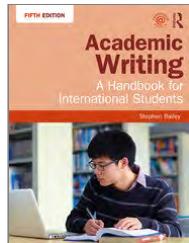
Routledge
December 2021:324
Hb: 978-0-367-44538-6: £130
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eBook: 978-1-003-01021-0

* For full contents and more information, visit: www.routledge.com/9780367445393

5TH EDITION

Academic Writing

A Handbook for International Students



Stephen Bailey

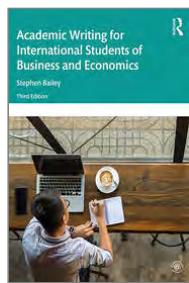
Academic Writing is the must-have guide both for international students and those teaching them. Packed full of authentic examples, practice exercises and progress checks this book has been fully updated to reflect the academic writing needs of international students being taught in the English language. With brand new chapters, further material to challenge the high achieving student and a fully updated companion website, this book is suitable for use in the classroom or for self-study. With the concerns of the international student at its heart this practical book is an invaluable guide, essential for those wanting to maximise their academic potential.

Routledge
December 2017:344
Hb: 978-1-138-04873-7: £115
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eBook: 978-1-315-16999-6

* For full contents and more information, visit: www.routledge.com/9781138048744

3RD EDITION

Academic Writing for International Students of Business and Economics



Stephen Bailey

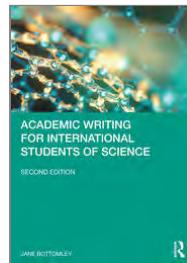
Now in its third edition, this key text helps international students succeed in writing essays and reports for their business and economics course. Thoroughly revised and updated, it is designed to be used by teachers in the classroom and students for self-study. New topics in this edition include writing in groups, written British and American English, and reflective writing. In addition, the new interactive website has a full set of teaching notes as well as more challenging exercises, revision material and links to other sources. Written to deal with the specific language issues faced by international students, this practical, user-friendly book is an invaluable guide.

Routledge
January 2020:346
Hb: 978-0-367-28030-7: £130
Pb: 978-0-367-28031-4: £27.99
eBook: 978-0-429-29927-8

* For full contents and more information, visit: www.routledge.com/9780367280314

2ND EDITION

Academic Writing for International Students of Science



Jane Bottomley

This second edition is an accessible companion designed to help science and technology students develop the knowledge, skills and strategies needed to produce clear and coherent academic writing in their university assignments. Using authentic texts to explore the nature of scientific writing, the book covers key areas such as scientific style, effective sentence and paragraph structure, and coherence in texts and arguments. Throughout the book, a range of tasks offers the opportunity to put theory into practice. This is an invaluable tool for the busy science or technology student looking to improve their writing and reach their full academic potential.

Routledge
October 2021:220
Hb: 978-0-367-63271-7: £130
Pb: 978-0-367-63272-4: £27.99
eBook: 978-1-003-11857-2

* For full contents and more information, visit: www.routledge.com/9780367632724

2ND EDITION

The Essentials of Academic Writing for International Students



Stephen Bailey

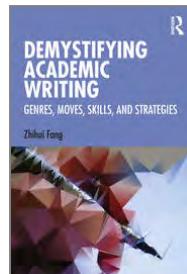
Written to help international students write essays and reports for their English-language university courses, this key title covers the essentials needed to achieve academic writing success. An easy-to-follow course that builds writing confidence and can be used both in the classroom and for self-study, this second edition has been thoroughly revised and updated to contain relevant examples, explanations and exercises. All international students wanting to maximise their academic potential will find this practical, concise and easy-to-use book an invaluable guide to writing in English for their degree courses.

Routledge
March 2024:252
Hb: 978-1-032-72173-6: £130
Pb: 978-1-032-72170-5: £19.99

* For full contents and more information, visit: www.routledge.com/9781032721705

Demystifying Academic Writing

Genres, Moves, Skills, and Strategies



Zhihui Fang

Accessible and informative, this book is designed to enhance the capacity of graduate and undergraduate students, as well as early career scholars, to write for academic purposes. Fang describes the key genres and types of academic writing, explains common rhetorical moves, offers linguistic strategies and insights to give students the skills they need for effective academic writing across genres and disciplines. Assuming no technical knowledge, this text is ideal for both non-native and native English speakers alike, and for courses in academic writing, composition, and L2 writing instruction.

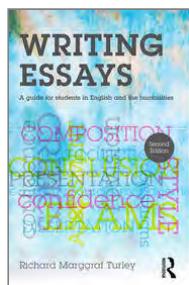
Routledge
April 2021:286
Hb: 978-0-367-67508-0: £130
Pb: 978-0-367-65354-5: £38.99
eBook: 978-1-003-13161-8

* For full contents and more information, visit: www.routledge.com/9780367653545

2ND EDITION

Writing Essays

A guide for students in English and the humanities

**Richard Marggraf Turley**

Essays are a major form of assessment in higher education today and this is a fact that causes some writers a great deal of anxiety. Fortunately, essay writing is a skill that can be learned, like any other. *Writing Essays* demystifies the entire process of essay writing and reveals the tricks of the trade, making your student life easier. You'll learn how to impress tutors by discovering exactly what markers look for when they read your work. Using practical examples selected from real student assignments and tutor feedback, this book covers every aspect of composition, from introductions and conclusions, down to presentation and submission.

Routledge

November 2015:158

Hb: 978-1-138-91668-5: £130

Pb: 978-1-138-91669-2: £19.99

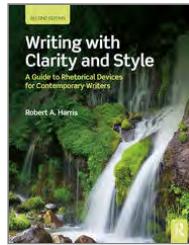
eBook: 978-1-315-68944-9

* For full contents and more information, visit: www.routledge.com/9781138916692

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Writing with Clarity and Style

A Guide to Rhetorical Devices for Contemporary Writers

**Robert A. Harris**

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Routledge

December 2017:232

Hb: 978-1-138-56010-9: £130

Pb: 978-1-138-56009-3: £35.99

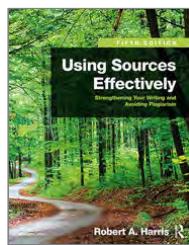
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Strengthening Your Writing and Avoiding Plagiarism

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Now in its fifth, expanded edition, *Using Sources Effectively*, Fifth Edition targets the two most prominent problems in current research-paper writing: the increase in unintentional plagiarism and the ineffective use of research source material. Designed as a supplementary textbook for both undergraduate and graduate courses, this book will help every student who uses research in writing. Included in this edition is coverage of research strategies and source selection (Chapter 2), a chapter on quoting sources effectively (Chapter 4), and a chapter on sentence patterns (Chapter 10). APA and MLA citation styles have been updated throughout the text.

Routledge

January 2017:210

Hb: 978-1-138-28966-6: £160

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eBook: 978-1-315-26706-7

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Renovating Your Writing

Shaping Ideas and Arguments into Clear, Concise, and Compelling Messages

**Richard Kallan**

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Routledge

July 2017:190

Hb: 978-1-138-72676-5: £130

Pb: 978-1-138-72677-2: £27.99

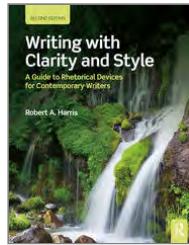
eBook: 978-1-315-18660-3

* For full contents and more information, visit: www.routledge.com/9781138726772

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Writing with Clarity and Style

A Guide to Rhetorical Devices for Contemporary Writers

**Robert A. Harris**

Writing with Clarity and Style, 2nd Edition, will help you to improve your writing dramatically. The book shows you how to use dozens of classical rhetorical devices to bring power, clarity, and effectiveness to your writing. You will also learn about writing styles, authorial personas, and sentence syntax as tools to make your writing interesting and persuasive. If you want to improve the appeal and persuasion of your speeches, this is also the book for you.

Routledge

December 2017:232

Hb: 978-1-138-56010-9: £130

Pb: 978-1-138-56009-3: £35.99

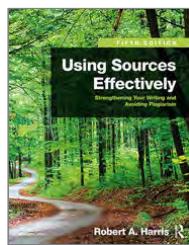
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5TH EDITION

Using Sources Effectively

Strengthening Your Writing and Avoiding Plagiarism

**Robert Harris**

Now in its fifth, expanded edition, *Using Sources Effectively*, Fifth Edition targets the two most prominent problems in current research-paper writing: the increase in unintentional plagiarism and the ineffective use of research source material. Designed as a supplementary textbook for both undergraduate and graduate courses, this book will help every student who uses research in writing. Included in this edition is coverage of research strategies and source selection (Chapter 2), a chapter on quoting sources effectively (Chapter 4), and a chapter on sentence patterns (Chapter 10). APA and MLA citation styles have been updated throughout the text.

Routledge

January 2017:210

Hb: 978-1-138-28966-6: £160

Pb: 978-1-138-28968-0: £52.99

eBook: 978-1-315-26706-7

* For full contents and more information, visit: www.routledge.com/9781138289680**Clarity and Coherence in Academic Writing**

Using Language as a Resource

**David Nunan, Julie Choi**

This book presents a lively, rich, and concise introduction to the key concepts and tools for developing clarity and coherence in academic writing. Well-known authors and linguists David Nunan and Julie Choi provide examples of the linguistic procedures that writers can draw on to enhance clarity and coherence for the reader. This resource makes complex concepts accessible to the emergent writer and illustrates how these concepts can be applied to their own writing. In-text projects and tasks invite you, the reader, to experiment with principles and ideas in developing your identity and voice as a writer.

Routledge

March 2023:224

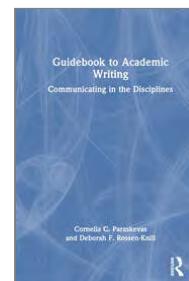
Hb: 978-1-032-01559-0: £120

Pb: 978-1-032-01382-4: £26.99

eBook: 978-1-003-17909-2

* For full contents and more information, visit: www.routledge.com/9781032013824**Guidebook to Academic Writing**

Communicating in the Disciplines

**Cornelia C. Paraskevas, Deborah F. Rossen-Knill**

This innovative guidebook is a concise introduction to discipline-specific academic language. Using authentic texts written by both novice and expert writers and 'translating' current, corpus-based research of academic language into a practical guide, the book gives students the tools to navigate the linguistic features of various disciplines. With exercises and additional online resources, this guidebook provides students with a range of tools they can choose from in order to create effective texts that meet discipline and reader expectations. Accessibly written, it is an essential guide for all students in humanities and sciences writing academic texts in English.

Routledge

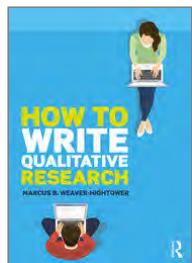
July 2024:216

Hb: 978-1-032-48472-3: £130

Pb: 978-1-032-48470-9: £34.99

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How to Write Qualitative Research



Marcus B. Weaver-Hightower

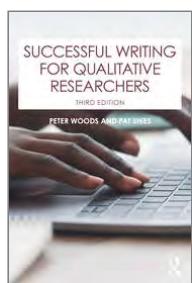
Qualitative research has exploded in popularity in nearly every discipline from the social sciences to health fields to business. While many qualitative textbooks explain how to conduct an interview or analyze fieldnotes, rarely do they give more than a few scant pages to the skill many find most difficult: writing. That's where *How to Write Qualitative Research* comes in. Using clear prose, helpful examples and lists, it breaks down and explains the most common writing tasks in qualitative research, and each chapter suggests step-by-step how-to approaches writers can use to tackle those tasks.

Routledge
October 2018:282
Hb: 978-1-38-06630-4: £130
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eBook: 978-1-315-15926-3

* For full contents and more information, visit: www.routledge.com/9781138066311

3RD EDITION

Successful Writing for Qualitative Researchers



Peter Woods, Pat Sikes

The third edition of this text has been brought fully up to date to cover developments in funding and institutional requirements. With new material on the responsibilities of the writer, technological developments, the ability to reach wider audiences and arts-based research, this book is designed to give practical advice to aspiring and established academic writers on mind-sets, strategies, techniques and opportunities. A must-read guide for all those looking to translate their qualitative research into writing.

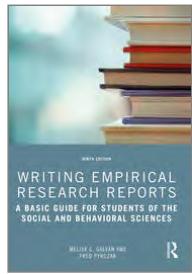
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* For full contents and more information, visit: www.routledge.com/9780367698232

9TH EDITION

Writing Empirical Research Reports

A Basic Guide for Students of the Social and Behavioral Sciences



Melisa C. Galvan, Fred Pyrczak

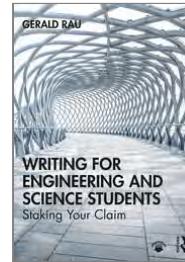
Writing Empirical Research Reports: A Basic Guide for Students of the Social and Behavioral Sciences, Ninth Edition, offers clear and practical guidance on how to write research proposals, reports, theses, and dissertations. Accompanied by online resources for students and instructors, this book is ideal for use in research methods courses, thesis/dissertation preparation courses, research seminars where writing a research report is a culminating activity, and any graduate-level seminar in which the instructor covers the vital components necessary to prepare a research manuscript for submission for publication.

Routledge
October 2023:196
Hb: 978-1-032-13678-3: £130
Pb: 978-1-032-13680-6: £54.99
eBook: 978-1-003-23041-0

* For full contents and more information, visit: www.routledge.com/9781032136806

Writing for Engineering and Science Students

Staking Your Claim



Gerald Rau

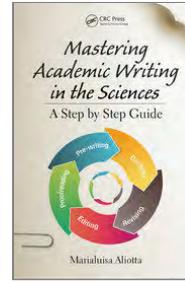
Drawing on his extensive experience of teaching international students, Gerald A. Rau provides a clear "argument structure" for students to follow when undertaking both academic and technical writing. This is the first book to make clear the different structures required for engineering versus scientific articles. Tasks and exercises are provided throughout. Using the research article as a model and covering lab reports, research proposals, dissertations, poster presentations, industry reports, emails and job applications, this book is essential reading for all students of science and engineering who are taking a course in writing, or seeking a resource to aid in their writing assignments.

Routledge
August 2019:324
Hb: 978-1-38-38824-6: £130
Pb: 978-1-38-38825-3: £35.99
eBook: 978-0-429-42568-4

* For full contents and more information, visit: www.routledge.com/9781138388253

Mastering Academic Writing in the Sciences

A Step-by-Step Guide



Marialuisa Aliotta

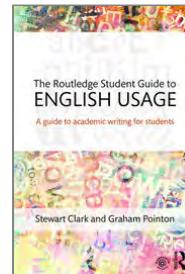
This book provides a comprehensive and coherent step-by-step guide to writing in scientific academic disciplines. It is an invaluable resource for those working on a PhD thesis, research paper, dissertation, or report. Writing these documents can be a long and arduous experience for students and their supervisors, and even for experienced researchers. However, this book can hold the key to success. Mapping the steps involved in the writing process - from acquiring and organizing sources of information, to revising early drafts, to proofreading the final product - it provides clear guidance on what to write and how best to write it.

CRC Press
April 2018:200
Hb: 978-1-38-74288-8: £115
Pb: 978-1-498-70147-1: £46.99
eBook: 978-1-351-00214-1

* For full contents and more information, visit: www.routledge.com/9781498701471

The Routledge Student Guide to English Usage

A guide to academic writing for students



Stewart Clark, Graham Pointon

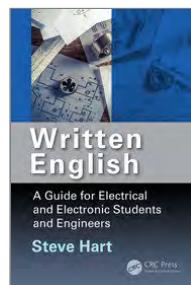
The Routledge Student Guide to English Usage is an authoritative A-Z guide to key aspects of English usage. Covering approximately 4000 carefully selected words, the authors focus on groups of confusable words that sound alike, look alike or are frequently mixed up. Examples of good usage are drawn from corpora such as the British National Corpus and the Corpus of Contemporary American English. A substantial reference section is also provided with stylistic guidance on academic writing skills, email standards, punctuation and grammar tips. This is the essential reference text for all students working on improving their academic writing skills.

Routledge
May 2016:402
Hb: 978-1-38-93358-3: £130
Pb: 978-1-38-93359-0: £36.99
eBook: 978-1-315-67843-6

* For full contents and more information, visit: www.routledge.com/9781138933590

Written English

A Guide for Electrical and Electronic Students and Engineers



Steve Hart

This book covers all aspects of English grammar relevant to electrical and electronic engineers. It discusses working with numbers and algebra, including correct formatting procedures (both body citations and references). The book addresses vocabulary and stylistic issues, describes the level of writing expected in the field, reveals often-made mistakes, and indicates areas where engineers should focus their efforts. The text also offers unique insight into problems students and academics face on a day-to-day basis when writing in a language that is not their mother tongue.

CRC Press

December 2015:216

Hb: 978-1-138-42241-4: £175

Pb: 978-1-498-73962-7: £36.99

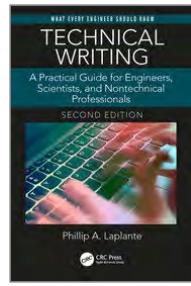
eBook: 978-1-315-21412-2

* For full contents and more information, visit: www.routledge.com/9781498739627

2ND EDITION

Technical Writing

A Practical Guide for Engineers, Scientists, and Nontechnical Professionals, Second Edition



Phillip A. Laplante

Series: What Every Engineer Should Know

The second edition enables readers to write, edit, and publish materials of a technical nature, including books, articles, reports, and electronic media. In addition, a focus on writing for the nontechnical persons working in the technology world and the nonnative English speaker has been incorporated.

CRC Press

August 2018:300

Hb: 978-1-138-60696-8: £140

Pb: 978-1-138-62810-6: £44.99

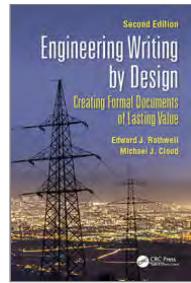
eBook: 978-0-429-46739-4

* For full contents and more information, visit: www.routledge.com/9781138628106

2ND EDITION

Engineering Writing by Design

Creating Formal Documents of Lasting Value, Second Edition



Edward J. Rothwell, Michael J. Cloud

This book shows how effective writing can be achieved by thinking like an engineer. Based on the authors' combined experience as engineering educators, the book presents a novel approach to technical writing, positioning formal writing tasks as engineering design problems with requirements, constraints, protocols, standards, and customers (readers) to satisfy. Featuring illustrative examples, chapter summaries and exercises, quick-reference tables, and recommendations for further reading, this book is packed with valuable tips and information practicing and aspiring engineers need to become effective writers.

CRC Press

January 2020:257

Hb: 978-0-367-89682-9: £99.99

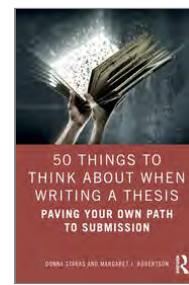
Pb: 978-0-367-34754-3: £48.99

eBook: 978-0-429-32769-8

* For full contents and more information, visit: www.routledge.com/9780367347543

50 Things to Think About When Writing a Thesis

Paving Your Own Path to Submission



Donna Starks, Margaret J. Robertson

This book shows thesis writers how to embrace the individual nature of writing, bringing their own unique identities and skillsets to their thesis. Each idea is presented as one that has multiple solutions depending on who the readers are and what they want to achieve. The book guides the reader on identifying their own ways of working, their own particular strengths, as well as their unique voice and how to use these as tools to navigate the process of writing and surviving the thesis. It also provides practical guidance on elements such as the literature review and methodology, considerations around language and how to deal with life after submission.

Routledge

August 2023:136

Hb: 978-1-032-34700-4: £130

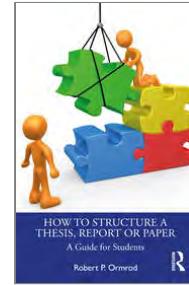
Pb: 978-1-032-34699-1: £24.99

eBook: 978-1-003-32340-2

* For full contents and more information, visit: www.routledge.com/9781032346991

How to Structure a Thesis, Report or Paper

A Guide for Students



Robert P. Ormrod

This book provides concise practical guidance for students to help make their student's writing process more structured for their group work or thesis at any level. It therefore shows how to demonstrate meaningfully what they have learned in the relevant course or degree programme in a way that is accessible to the supervisor and the examiner. Suitable for students completing theses at Bachelors and Masters level, as well as other types of report-based work, and for supervisors looking for a clear and practical guide to help students with their writing process. The book will also provide a bridge to writing papers for journals in an academic career.

Routledge

November 2022:130

Hb: 978-1-032-36948-8: £120

Pb: 978-1-032-36946-4: £16.99

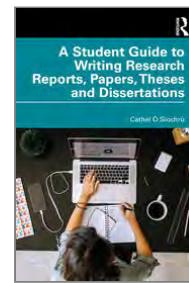
eBook: 978-1-003-33463-7

* For full contents and more information, visit: www.routledge.com/9781032369464

A Student Guide to Writing Research Reports, Papers, Theses and Dissertations

Cathal Ó Siochrú

This useful guide for students combines all the guidance, advice, and key tips needed to write successful research reports, theses, or dissertations, exploring, in detail, each of the elements involved in writing an academic paper. The book will guide you through all the key sections of a report including the Introduction, Literature Review, Method, Results, Discussion and more.



Routledge

November 2022:234

Hb: 978-0-367-62103-2: £120

Pb: 978-0-367-62104-9: £19.99

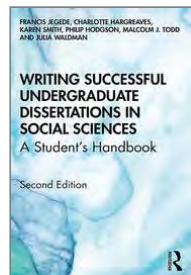
eBook: 978-1-003-10796-5

* For full contents and more information, visit: www.routledge.com/9780367621049

2ND EDITION

Writing Successful Undergraduate Dissertations in Social Sciences

A Student's Handbook

**Francis Jegede, Charlotte Hargreaves, Karen Smith, Philip Hodgson, Malcolm Todd, Julia Waldman**

A practical guide for students undertaking their dissertation, this book uses real examples of dissertations across the Social Sciences. Providing an accessible overview of the essential steps in conducting research and writing dissertations, each chapter has clear learning outcomes and research objectives with relevant themes. Using a mixture of useful information, exercises, practical strategies, case study material and further reading, it gives hints and tips on beginning and managing a research project and working with supervisors. Packed with proven practical advice it is a dependable starting point and guide throughout the dissertation journey.

Routledge

February 2020:240
Hb: 978-0-367-25523-7: £130
Pb: 978-0-367-25525-1: £22.99
eBook: 978-0-429-28825-8

* For full contents and more information, visit: www.routledge.com/9780367255251**Principles and Concepts of Social Research**

A Critical Examination of Methodology, Methods and Analysis for Emerging Researchers

**Simon Hayhoe**

This text covers the foundations of social science research, outlining the history and core elements of Western social research, along with a variety of topics, ranging from the history of scientific beliefs from Ancient Greece to the contemporary world. This book will be of use to core research units and training programs that universities provide at postgraduate level, at doctoral level and for early career post-doctoral researchers, to develop greater understanding of issues surrounding research. In addition to its theory, the contents of the book will include questions for discussion in seminars and small group work.

Routledge

December 2022:200
Hb: 978-1-032-14966-0: £120
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* For full contents and more information, visit: www.routledge.com/9781032149677

2ND EDITION

A Concise Guide to Writing a Thesis or Dissertation

Educational Research and Beyond

**Halyna M. Kornuta, Ron W. Germaine**

A Concise Guide to Writing a Thesis or Dissertation provides clear, concise, and intentional practice guidelines about organizing and writing a thesis or dissertation. Part I provides an overview for writing a thesis or dissertation. It describes the big picture of planning and formatting a research study, from identifying a topic through to writing quality. Part II describes the framework and substance of a research study. It models the pattern generally found in a formal, five-chapter research study.

Routledge

May 2019:134
Hb: 978-0-367-17457-6: £115
Pb: 978-0-367-17458-3: £16.99
eBook: 978-0-429-05688-8

* For full contents and more information, visit: www.routledge.com/9780367174583**From Student to Scholar**

A Guide to Writing Through the Dissertation Stage

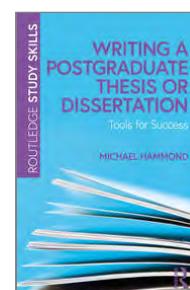
Keith Hjortshoj

From Student to Scholar guides graduate students through the "hidden" developmental transition required in writing a dissertation and moving beyond, to become a successful scholar. Identifying common rhetorical challenges across disciplines, author Hjortshoj explains how to accommodate evolving audiences, motivations, standards, writing processes, and timelines. One full chapter is devoted to "writing blocks," and another offers advice to international students who are non-native speakers of English. The text also offers advice for managing relations with advisors and preparing for the diverse careers that PhDs, trained primarily as research specialists, actually enter.

Routledge
August 2018:204
Hb: 978-1-138-56942-3: £130
Pb: 978-1-138-56944-7: £44.99
eBook: 978-0-203-70426-4

* For full contents and more information, visit: www.routledge.com/9781138569447**Writing a Postgraduate Thesis or Dissertation**

Tools for Success

**Michael Hammond**

Series: Routledge Study Skills

Writing a Postgraduate Dissertation or Thesis discusses the challenges that students encounter in their writing and provides thoughtful advice on how to address those challenges. It provides key advice on how to write about a field of research, the tradition of methodology and methods undertaken, and the contribution to knowledge that is being made.

Routledge
July 2022:172
Hb: 978-0-367-75281-1: £130
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eBook: 978-1-003-16182-0

* For full contents and more information, visit: www.routledge.com/9780367752828

2ND EDITION

Thesis and Dissertation Writing in a Second Language

A Handbook for Students and their Supervisors

**Brian Paltridge, Sue Starfield**

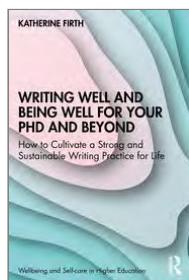
This fully updated edition is the guide for non-native speakers writing a thesis or dissertation in English. It explicitly unpacks academic writing, using accessible language and practical examples and discusses the issues that are crucial to success. These include: understanding the setting and purpose, understanding writer/reader relationships, issues of writer identity and what examiners really value. Suitable for students from all disciplines writing in a second language this book is equally valuable for supervisors of non-native speakers as it provides tasks that can be used with students to guide them in their writing.

Routledge
August 2019:248
Hb: 978-1-138-04869-0: £120
Pb: 978-1-138-04870-6: £28.99
eBook: 978-1-315-17002-2

* For full contents and more information, visit: www.routledge.com/9781138048706

Writing Well and Being Well for Your PhD and Beyond

How to Cultivate a Strong and Sustainable Writing Practice for Life



Katherine Firth

Series: Wellbeing and Self-care in Higher Education

Prioritising wellbeing alongside academic development, this book provides practical advice to help students write well, and be well, during their PhD and throughout their career. Relevant at any stage of the writing process, this book will help doctoral students and early career researchers to produce great words that people want to read, examiners want to pass and editors want to publish.

Routledge

September 2023:200

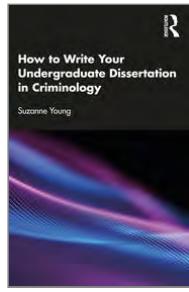
Hb: 978-1-032-31082-4: £130

Pb: 978-1-032-31081-7: £21.99

eBook: 978-1-003-30794-5

* For full contents and more information, visit: www.routledge.com/9781032310817

How to Write Your Undergraduate Dissertation in Criminology



Suzanne Young

This book provides a guide for undergraduate criminology and criminal justice students undertaking their final year dissertation. Drawing on empirical case studies and including a range of resources and templates, this book takes students through each stage of the dissertation and offers useful guidance on structure and content.

Routledge

April 2022:146

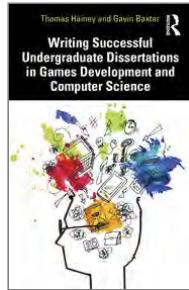
Hb: 978-0-367-85998-5: £130

Pb: 978-0-367-85999-2: £21.99

eBook: 978-1-003-01633-5

* For full contents and more information, visit: www.routledge.com/9780367859992

Writing Successful Undergraduate Dissertations in Games Development and Computer Science



Thomas Hainey, Gavin Baxter

Writing a dissertation in the final year at university can be a daunting task, but particularly if the degree is practically oriented and implementation-based. This book provides a concise guide to producing a dissertation in Computer Science, Software Engineering or Games Development degrees with research projects typically involving design, implementation, testing and evaluation. Drawing on the authors' knowledge and experience of supervising dissertation students, the book offers a step-by-step guide to the key areas of writing a dissertation alongside real-life examples.

Routledge

November 2022:304

Hb: 978-0-367-51707-6: £120

Pb: 978-0-367-51708-3: £19.99

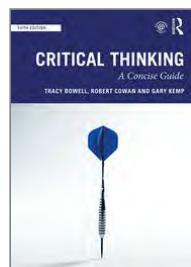
eBook: 978-1-003-05488-7

* For full contents and more information, visit: www.routledge.com/9780367517083

5TH EDITION

Critical Thinking

A Concise Guide

**Tracy Bowell, Robert Cowan, Gary Kemp**

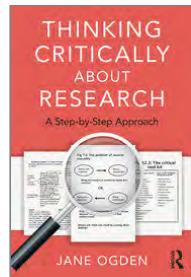
We are frequently confronted with arguments. Critical Thinking equips students with the concepts and techniques used in the analysis and assessment of arguments whatever the context. Through precise and accessible discussion, this book provides the tools to become a successful critical thinker, who can act and believe in accordance with good reasons, and who can articulate and make explicit those reasons. This fifth edition has been revised and updated throughout, including an expanded range of 'complete examples', the introduction of Venn diagrams, and the discussion of fake news and related phenomena arising in the contemporary scene.

Routledge
August 2019:348
Hb: 978-0-815-37142-7: £130
Pb: 978-0-815-37143-4: £34.99
eBook: 978-1-351-24373-5

* For full contents and more information, visit: www.routledge.com/9780815371434

Thinking Critically about Research

A Step by Step Approach

**Jane Ogden**

This book is designed to help readers develop a critical understanding of evidence and the ways in which evidence is presented, and to challenge the information they receive in both academic and non-academic sources. The author presents a step by step approach with a focus on knowing methods, culminating in a bespoke 'critical tool kit' which offers a practical checklist designed to be used when carrying out research. There are also learning features including tasks and worked examples, drawing on real research studies. This is an essential resource for students and researchers, and those putting research into practice, who want to have better critical thinking skills.

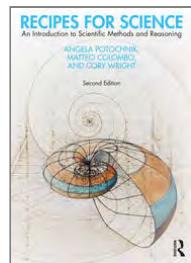
Routledge
December 2018:176
Hb: 978-0-367-00019-6: £130
Pb: 978-0-367-00020-2: £35.99
eBook: 978-0-429-44496-8

* For full contents and more information, visit: www.routledge.com/9780367000202

2ND EDITION

Recipes for Science

An Introduction to Scientific Methods and Reasoning

**Angela Potocnik, Matteo Colombo, Cory Wright**

Today, scientific literacy is an essential aspect of any undergraduate education. Recipes for Science responds to this need by providing an accessible introduction to the nature of science and scientific methods, reasoning, and concepts

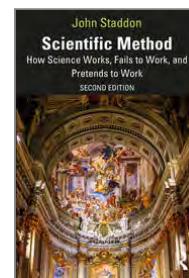
Routledge
March 2024:370
Hb: 978-1-032-29097-3: £170
Pb: 978-1-032-29096-6: £39.99

* For full contents and more information, visit: www.routledge.com/9781032290966

2ND EDITION

Scientific Method

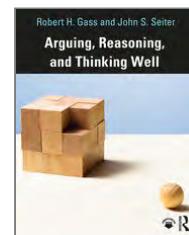
How Science Works, Fails to Work, and Pretends to Work

**John Staddon**

This expanded second edition of Scientific Method shows how science works, fails to work, or pretends to work, by looking at examples from physics, biomedicine, psychology, sociology, and economics. Scientific Method is essential reading for students and professionals trying to make sense of the role of science in society, and of the meaning, value, and limitations of scientific methodology.

Routledge
June 2024:224
Hb: 978-1-032-68389-8: £130
Pb: 978-1-032-65771-4: £29.99

* For full contents and more information, visit: www.routledge.com/9781032657714

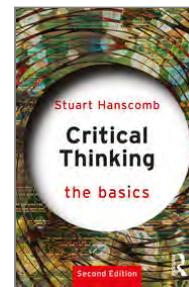
Arguing, Reasoning, and Thinking Well**Robert H. Gass, John S. Seiter**

Arguing, Reasoning, and Thinking Well offers an engaging and accessible introduction to argumentation and critical thinking. Authors Gass and Seiter, renowned for their friendly writing style, include real-world examples, hypothetical dialogues, and editorial cartoons to invite readers in. The text includes a full chapter devoted to the ethics of argument, as well as content on refutation and formal logic. It is designed for students in argumentation and critical thinking courses in communication, philosophy, and psychology departments, and is suitable for students and general education courses across the curriculum.

Routledge
June 2019:280
Hb: 978-0-815-37432-9: £150
Pb: 978-0-815-37433-6: £74.99
eBook: 978-1-351-24249-3

* For full contents and more information, visit: www.routledge.com/9780815374336

2ND EDITION

Critical Thinking: The Basics**Stuart Hanscomb***Series: The Basics*

An accessible and engaging introduction to the field of critical thinking, drawing on philosophy, communication and psychology. This 2nd edition has been revised and updated throughout and includes a new chapter on emotion and argument and how to build persuasive arguments. There are also many fresh examples, including conspiracy theories, trust, leadership and cultural cognition. With updated discussion questions/exercises and suggestions for further reading, this book is an essential read for students approaching the field of critical thinking for the first time, and for the general reader wanting to improving their thinking skills.

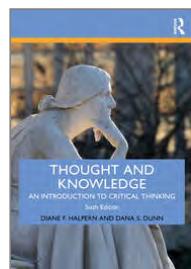
Routledge
June 2023:286
Hb: 978-1-032-16301-7: £130
Pb: 978-1-032-16299-7: £18.99
eBook: 978-1-003-24794-4

* For full contents and more information, visit: www.routledge.com/9781032162997

6TH EDITION

Thought and Knowledge

An Introduction to Critical Thinking

**Diane F. Halpern, Dana S. Dunn**

Thought and Knowledge applies theory and research from the learning sciences to teach students the critical thinking skills that they need to succeed in today's world. The text is grounded in psychological science and brought to life through humorous and engaging language and numerous practical and real-world examples and anecdotes. Critical thinking skills are presented in every chapter, empowering students to learn more efficiently, research more productively, and present logical, critical, and informed arguments. The skills are reviewed at the end of the chapter, and a complete list of skills with definitions and examples are included in the appendix.

Routledge

October 2022:428

Hb: 978-1-138-65516-4: £190

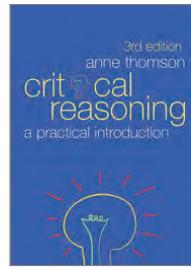
Pb: 978-1-138-65517-1: £59.99

* For full contents and more information, visit: www.routledge.com/9781138655171

3RD EDITION

Critical Reasoning

A Practical Introduction

**Anne Thomson**

We all engage in the process of reasoning, but we don't always pay attention to whether we are doing it well. This book offers the opportunity to practise reasoning in a clear-headed and critical way, with the aims of developing an awareness of the importance of reasoning well and of improving the reader's skill in analyzing and evaluating arguments. Anne Thomson has updated and revised the book to include fresh and topical examples, and new chapters on evaluating the credibility of evidence and decision making and dilemmas. By the end of the book students should be able to identify flaws in arguments, analyze the reasoning in newspaper articles, books and speeches, assess the credibility of evidence and authorities and approach any topic with the ability to reason and think critically.

Routledge

September 2008:256

Hb: 978-0-415-44586-3: £130

Pb: 978-0-415-44587-0: £35.99

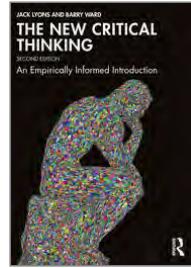
eBook: 978-0-203-87099-0

* For full contents and more information, visit: www.routledge.com/9780415445870

2ND EDITION

The New Critical Thinking

An Empirically Informed Introduction

**Jack Lyons, Barry Ward**

This highly innovative text aims to improve real-world critical thinking, incorporating insights from epistemology and philosophy of science to formulate best practices for assessing information sources and circumnavigate our natural intellectual blind spots. The book covers introductory logic in a way that emphasizes practical application, rather than formal completeness. This new edition provides ample resources and exercises for students and instructors alike both in-text and online.

Routledge

May 2024:448

Hb: 978-1-032-31730-4: £130

Pb: 978-1-032-31728-1: £64.99

* For full contents and more information, visit: www.routledge.com/9781032317281**The Need for Critical Thinking and the Scientific Method****Finlay MacRitchie**

The book exposes many of the misunderstandings about the scientific method and its application to critical thinking. It argues for a better understanding of the scientific method and for nurturing critical thinking in the community. This knowledge helps the reader to analyze issues more objectively, and warns about the dangers of bias and propaganda. The principles are illustrated by considering several issues that are currently being debated. These include anthropogenic global warming (often loosely referred to as climate change), dangers to preservation of the Great Barrier Reef, and the expansion of the gluten-free food market and genetic engineering.

CRC Press

May 2018:152

Hb: 978-0-815-36815-1: £140

Pb: 978-0-815-36775-8: £42.99

eBook: 978-1-351-25587-5

* For full contents and more information, visit: www.routledge.com/9780815367758

5TH EDITION

Philosophy of Social Science**Alexander Rosenberg**

Philosophy of Social Science provides a tightly argued yet accessible introduction to the philosophical foundations of the human sciences, including economics, anthropology, sociology, political science, psychology, history, and the disciplines emerging at the intersections of these subjects with biology. Philosophy is unavoidable for social scientists because the choices they make in answering questions in their disciplines force them to take sides on philosophical matters. Conversely, the philosophy of social science is equally necessary for philosophers since the social and behavior sciences must inform their understanding of human action, norms, and social institutions.

Routledge

July 2015:360

Hb: 978-0-367-09807-0: £130

Pb: 978-0-813-34973-2: £42.99

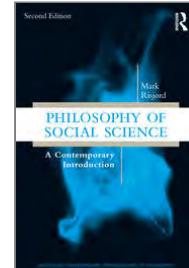
eBook: 978-0-429-49484-0

* For full contents and more information, visit: www.routledge.com/9780813349732

2ND EDITION

Philosophy of Social Science

A Contemporary Introduction

**Mark Risjord**

Series: Routledge Contemporary Introductions to Philosophy

This accessible text offers a comprehensive overview of debates in the field, with special attention to new research programs. Topics include the relationship of social policy to social science, interpretive research, cognitive and evolutionary explanations, intentional action explanation, rational choice theory, conventions and social norms, joint intentionality, causal inference, and experimentation. The Second Edition provides updates with the most recent literature and adds two new chapters: one on modeling and one on the role of race and gender in the social sciences.

Routledge

July 2022:336

Hb: 978-1-032-07587-7: £175

Pb: 978-1-032-07586-0: £38.99

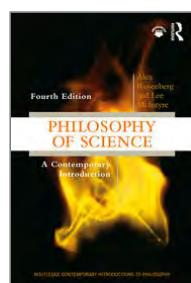
eBook: 978-1-003-20779-5

* For full contents and more information, visit: www.routledge.com/9781032075860

4TH EDITION

Philosophy of Science

A Contemporary Introduction

**Alex Rosenberg, Lee McIntyre***Series: Routledge Contemporary Introductions to Philosophy*

Any serious student attempting to better understand the nature, methods, and justification of science will value this book. Weaving lucid explanations with clear analyses, the volume is as a much-used, thematically-oriented introduction to the field. The new edition has been thoroughly rewritten based on instructor and student feedback, to improve readability and accessibility, without sacrificing depth. It retains all of the logically structured, extensive coverage of earlier editions, which the journal *Teaching Philosophy* called, "the industry standard" and "essential reading" in a 2010 review.

Routledge

November 2019:308

Hb: 978-1-138-33148-8: £130

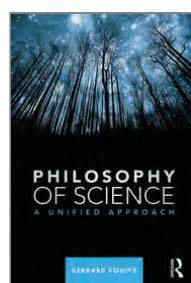
Pb: 978-1-138-33151-8: £42.99

eBook: 978-0-429-44726-6

* For full contents and more information, visit: www.routledge.com/9781138331518

Philosophy of Science

A Unified Approach

**Gerhard Schurz**

Philosophy of Science: A Unified Approach combines an elementary introduction to philosophy of science with an integrated survey of all of its important subfields. Focusing on the methodological unity of the sciences, the book provides chapters with introductory sections, followed by complementary, advanced topics. By restricting the teaching materials to the introductory sections, one obtains the basis for a semester-long course. Covering all of the material contained in the book fills a year-long course.

Routledge

November 2013:480

Hb: 978-0-415-82934-2: £130

Pb: 978-0-415-82936-6: £46.99

eBook: 978-0-203-36627-1

* For full contents and more information, visit: www.routledge.com/9780415829366

Doing Academic Research

A Practical Guide to Research Methods and Analysis



Ted Gournelos, Joshua R. Hammonds, Maridath A. Wilson

Doing Academic Research is a concise, accessible, and tightly organized overview of the research process in the humanities, social sciences, and business. Rather than a book about research, this is a practical guide to doing research, and guides budding researchers along the process of developing an effective workflow, where to go for help, and how to actually complete the project. It addresses diversity in abilities, interest, discipline, and ways of knowing by focusing not just on the process of conducting any one method in detail, but also the ways in which someone might choose a research method and conduct it successfully.

Routledge
May 2019:208

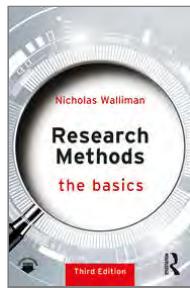
Hb: 978-0-367-20791-5: £115
Pb: 978-0-367-20793-9: £16.99
eBook: 978-0-429-26355-2

* For full contents and more information, visit: www.routledge.com/9780367207939

3RD EDITION

Research Methods

The Basics



Nicholas Walliman

Series: The Basics

Research Methods: The Basics is an accessible, user-friendly introduction to the different aspects of research theory, methods and practice. This third edition provides an expanded and fully updated resource suitable for students and practitioners in a wide range of disciplines including the natural sciences, social sciences and humanities. It is structured in two parts - the first covers the nature of knowledge and the reasons for doing research, the second explains the specific methods used to conduct an effective research project and how to propose, plan, carry out and write up a research project.

Routledge
December 2021:280

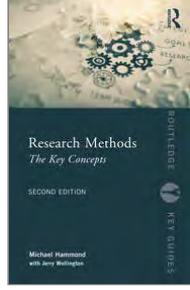
Hb: 978-0-367-69407-4: £130
Pb: 978-0-367-69408-1: £18.99
eBook: 978-1-003-14169-3

* For full contents and more information, visit: www.routledge.com/9780367694081

2ND EDITION

Research Methods

The Key Concepts



Michael Hammond, Jerry Wellington

Series: Routledge Key Guides

This invaluable resource provides a comprehensive overview of the many methods and methodologies of social research. Each entry provides a critical definition and examines the value and difficulties of a particular method or methodology of concept across different fields of social research. With thematic further reading stretching across the social sciences, this second edition will help readers develop a firm understanding of the rationale and principles behind key research methods, and is a must-have for new researchers at all levels, from undergraduate to postgraduate and beyond.

Routledge
September 2020:232

Hb: 978-0-367-17873-4: £94.99
Pb: 978-0-367-17874-1: £19.99
eBook: 978-0-429-05816-5

* For full contents and more information, visit: www.routledge.com/9780367178741

A-Z of Digital Research Methods

Catherine Dawson

This book provides a quick and easy, alphabetical reference guide for any student or researcher looking for an introduction to digital research methods. It provides a pathway through the often confusing digital research landscape, giving a concise introduction to each method.



Routledge
July 2019:424
Hb: 978-1-38-48679-9: £115
Pb: 978-1-38-48680-5: £24.99
eBook: 978-1-351-04467-7

* For full contents and more information, visit: www.routledge.com/9781138486805

11TH EDITION

Understanding Research Methods

An Overview of the Essentials



Michelle Newhart, Mildred L. Patten

A perennial bestseller since 1997, this updated eleventh edition of Understanding Research Methods provides a detailed overview of all the important concepts traditionally covered in a research methods class. It covers the principles of both qualitative and quantitative research, and how to interpret statistics without computations, so is suitable for all students regardless of their math background. The book is organized so that each concept is treated independently and can be used in any order without resulting in gaps in knowledge—allowing it to be easily and precisely adapted to any course.

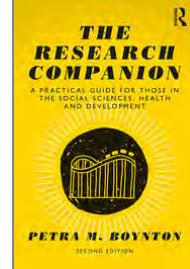
Routledge
June 2023:528
Hb: 978-0-367-55117-9: £215
Pb: 978-0-367-55118-6: £84.99
eBook: 978-1-003-09204-9

* For full contents and more information, visit: www.routledge.com/9780367551186

2ND EDITION

The Research Companion

A practical guide for those in the social sciences, health and development



Petra M. Boynton

Books on social and behavioral research too often focus on theory and methods and overlook the practical skills needed to undertake a research project. The Research Companion brings hard-earned lessons from the real world to offer clear and honest advice to all students and practitioners within the social and health sciences. The structure of the book makes it useful for researchers at all levels of experience: the numerous examples and case histories make it ideal for students just beginning their first research project, while the breadth of coverage and wealth of practical tips will also help more experienced researchers.

Routledge
September 2016:300
Hb: 978-1-38-91760-6: £130
Pb: 978-1-38-91761-3: £46.99
eBook: 978-1-315-68890-9

* For full contents and more information, visit: www.routledge.com/9781138917613

Are You Making a Meal Out of Research?

A Recipe for Research Success



Steve Reay, Cassie Khoo, Gareth Terry, Guy Collier, Trent Dallas, Valance Smith

Research methods in a comic! This visual guide to common research methods paradigms will get you started on thinking about your research journey - what research is and understanding different types of methods, how you choose them, and how you get started. The book includes several worksheets to start making your own research menu and further reading to learn more. Suitable for upper level undergraduate and first level postgraduate students in the social and behavioural sciences, healthcare, and those interested in indigenous and Māori research methods.

Routledge

May 2023:72

Hb: 978-1-032-39230-1: £120

Pb: 978-1-032-39232-5: £14.99

eBook: 978-1-003-34892-4

* For full contents and more information, visit: www.routledge.com/9781032392325

Literature Review and Research Design

A Guide to Effective Research Practice



Dave Harris

Graduate students executing their first independent research project often struggle to use academic literature effectively in the process of designing, developing, executing, and presenting their work. This book gives an overview of how to develop an effective research practice supported by the academic literature. Particularly suitable for those pursuing professional doctorates in subjects such as education and psychology.

Routledge

December 2019:176

Hb: 978-0-367-25036-2: £115

Pb: 978-0-367-25037-9: £24.99

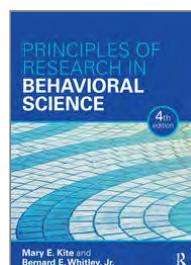
eBook: 978-0-429-28566-0

* For full contents and more information, visit: www.routledge.com/9780367250379

4TH EDITION

Principles of Research in Behavioral Science

Fourth Edition



Bernard E. Whitley, Jr., Mary E. Kite

This book provides a comprehensive overview of research methods in the behavioral sciences, focusing primarily on the conceptual issues inherent in conducting research. It covers topics that are often omitted from other texts, including measurement issues, correlational research, qualitative research, and integrative literature reviews. The book also includes discussions of diversity issues as they relate to behavioral science research. New to this edition are chapter boxes that focus on applied issues related to each chapter topic. Throughout the book, readable examples and informative tables and figures are provided.

Routledge

June 2018:852

Hb: 978-1-138-68787-5: £110

eBook: 978-1-315-45008-7

* For full contents and more information, visit: www.routledge.com/9781138687875

Conducting Contextual Research

How to Find Out About Yourself and Other People

Bernard Guerin, Eden Thain, Kristen Stevens, Adan C. Richards, Guilherme Bergo Leugi

Series: Exploring the Environmental and Social Foundations of Human Behaviour

This innovative book proposes an entirely new approach to social research, presenting practical ways to discover people's life contexts in order to understand why they do what they do, which is essential for any forms of research that need to understand people. Conducting Contextual Research is essential reading for postgraduate students and professionals in the fields of counselling, psychology and social work, and will be useful to anyone conducting research or inquiries to understand human behaviour, including academic researchers, detectives, intelligence operators, social workers, government service researchers, social policy analysts, and biographers.

Routledge

June 2024:184

Hb: 978-1-032-60825-9: £130

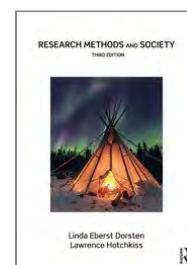
Pb: 978-1-032-60818-1: £42.99

* For full contents and more information, visit: www.routledge.com/9781032608181

3RD EDITION

Research Methods and Society

Foundations of Social Inquiry



Linda Eberst Dorsten, Lawrence Hotchkiss

Research Methods and Society, Third Edition is designed to help undergraduate students acquire basic skills in methods of social science research. These skills provide a foundation for understanding research findings in the social sciences and for conducting social research. Just as important, such skills sets and principles can be applied to everyday situations to make sense of endless stream of claims and counterclaims confronted daily in print and electronic forms, including social media.

Routledge

December 2018:410

Hb: 978-0-815-36616-4: £210

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eBook: 978-1-351-25981-1

* For full contents and more information, visit: www.routledge.com/9780815366157

2ND EDITION

Social Research Methods by Example

Applications in the Modern World



Yasemin Besen-Cassino, Dan Cassino

This book sharpens students' understanding of the research process and the essential methods that researchers use to perform their work on the cutting edge of the social sciences. The new edition features updated examples across the chapters, reflecting new directions within the social sciences and both a diversity of voices and research output in recent years. The authors also expand their chapter overviews in key areas and weave discussion of validity and ethics carefully into the fabric of each chapter's focus. Written not only to introduce students to the basic principles of social science research, this book provides readers with a toolkit to carry out the process on their own.

Routledge

May 2023:342

Hb: 978-1-032-21005-6: £120

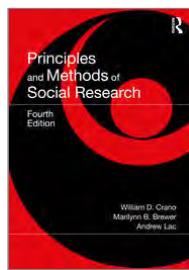
Pb: 978-1-032-20920-3: £34.99

eBook: 978-1-003-26632-7

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4TH EDITION

Principles and Methods of Social Research

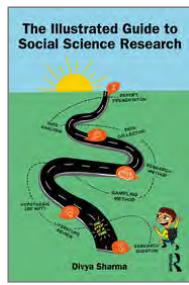


William D. Crano, Marilyn B. Brewer, Andrew Lac
 Through a multi-methodology approach, *Principles and Methods of Social Research*, Fourth Edition covers the latest research techniques and designs and guides readers toward the design and conduct of social research from the ground up. Praised for its comprehensive coverage, the breadth and depth of content of this new edition is unparalleled. It is intended for graduate or advanced undergraduate courses in research methods in psychology, communication, sociology, education, public health, and marketing, and further appeals to researchers in various fields of social research, such as social psychology and communication.

Routledge
 July 2023:486
 Hb: 978-1-032-22241-7: £130
 Pb: 978-1-032-22240-0: £82.99
 eBook: 978-1-003-27173-4

* For full contents and more information, visit: www.routledge.com/9781032222400

The Illustrated Guide to Social Science Research



Divya Sharma

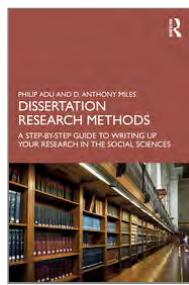
This accessible and engaging textbook helps students to get to grips with key concepts, issues, and practices in social science research through the use of fun and informative illustrations and examples.

Routledge
 June 2024:248
 Hb: 978-1-032-32379-4: £130
 Pb: 978-1-032-32377-0: £34.99

* For full contents and more information, visit: www.routledge.com/9781032323770

Dissertation Research Methods

A Step-by-Step Guide to Writing Up Your Research in the Social Sciences



Philip Adu, D. Anthony Miles

Dissertation Research Methods: A Step-by-Step Guide to Writing Up Your Research in the Social Sciences focuses specifically on methodology when planning, writing and submitting your dissertation thesis. Written by two methodology experts in the social sciences, the book provides a step-by-step guide through each stage of the dissertation process. This compact book will be of use to all graduate students and their supervisors in the Social Sciences, Education and Behavioural Sciences, looking for a guide for working with robust and defensible methodological principles in their dissertation research and theses.

Routledge
 September 2023:470
 Hb: 978-1-032-21383-5: £130
 Pb: 978-1-032-21385-9: £39.99
 eBook: 978-1-003-26815-4

* For full contents and more information, visit: www.routledge.com/9781032213859

Research Methods and Design Beyond a Single Discipline

From Principles to Practice

Heting Chu

This book presents and discusses 15 research methods after an overview of each, an illustration of the research process and an examination of related topics. The focus of this book is on data collection techniques and research design. This book is essential for masters and doctoral students, and researchers who wish to learn about research methods and design comprehensively and systematically, as well as instructors delivering research methods courses across the social and behavioral sciences.

Routledge
 April 2024:360
 Hb: 978-0-367-89883-0: £130
 Pb: 978-0-367-89885-4: £54.99

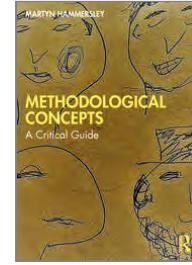
* For full contents and more information, visit: www.routledge.com/9780367898854

Methodological Concepts

A Critical Guide

Martyn Hammersley

Methodological Concepts: A Critical Guide clarifies many key terms and issues in social research methodology. It outlines the conventional meanings of these terms, but also addresses their contentious character. The aim is to offer interpretations of them that provide a coherent conception of the nature of social science.



Routledge
 February 2023:186
 Hb: 978-1-032-39573-9: £120
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* For full contents and more information, visit: www.routledge.com/9781032395746

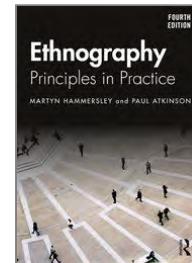
4TH EDITION

Ethnography

Principles in Practice

Martyn Hammersley, Paul Atkinson

This edition has been expertly updated to reflect the important developments in digital and mobile technologies and social media. The ease with which recordings, audio or video, as well as photographs, can be produced via the use of mobile devices has opened up new tools and foci for ethnographers.

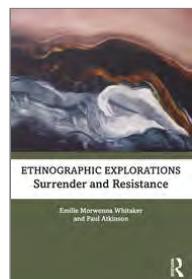


Routledge
 April 2019:292
 Hb: 978-1-138-50445-5: £145
 Pb: 978-1-138-50446-2: £38.99
 eBook: 978-1-315-14602-7

* For full contents and more information, visit: www.routledge.com/9781138504462

Ethnographic Explorations

Surrender and Resistance



Emilie Morwenna Whitaker, Paul Atkinson

In *Ethnographic Explorations: Surrender and Resistance*, Whitaker and Atkinson, two experienced ethnographers, explore the complexities of fieldwork, analysis and writing from new perspectives. It takes the opportunity to reflect on Ethnography not just as a methodological perspective, but at a fundamental level. The book is intended for researchers at postgraduate and postdoctoral levels and at experienced researchers who want to read a different, sometimes challenging, take on ethnographic research and its outcomes.

Routledge

March 2023:184

Hb: 978-0-367-17440-8: £120

Pb: 978-0-367-17441-5: £34.99

eBook: 978-0-429-05680-2

* For full contents and more information, visit: www.routledge.com/9780367174415

2ND EDITION

The Researcher's Toolkit

The Complete Guide to Practitioner Research



David Wilkinson, Dennis Dokter

Designed for those undertaking research for the first time, the second edition of *The Researcher's Toolkit* is a practical and accessible guide for all those partaking in small-scale research. Jargon-free and assuming no prior knowledge, it covers the entire research process, from defining a research topic or question through to its completion. This book is a must-read guide for students and budding researchers as well as educators seeking to explain academic research and writing to their pupils. It will benefit anyone looking to complete a research project whether inside academia or beyond.

Routledge

May 2023:178

Hb: 978-1-032-01809-6: £120

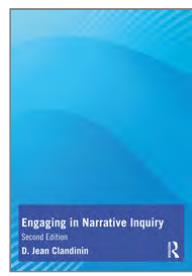
Pb: 978-1-032-01810-2: £24.99

eBook: 978-1-003-18015-9

* For full contents and more information, visit: www.routledge.com/9781032018102

2ND EDITION

Engaging in Narrative Inquiry



D. Jean Clandinin

In *Engaging in Narrative Inquiry*, Second Edition, D. Jean Clandinin, a pioneer in narrative research, updates her classic formulation on narrative inquiry, clarifying, extending, and refining methods. The increasing interest in narrative inquiry as research methodology across disciplines makes this an essential guide and an excellent text for graduate courses in qualitative inquiry, education and nursing research, sociology, and all courses in autobiographical and narrative research and inquiry.

Routledge

September 2022:176

Hb: 978-1-032-14609-6: £130

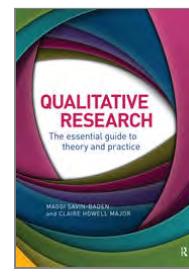
Pb: 978-1-032-14610-2: £38.99

eBook: 978-1-003-24014-3

* For full contents and more information, visit: www.routledge.com/9781032146102

Qualitative Research

The Essential Guide to Theory and Practice



Maggi Savin-Baden, Claire Major

This book provides beginning researchers with an overview of qualitative research and practical advice and guidance about how to conduct a qualitative study. The book's focus enables researchers to choose the most appropriate methodology by providing them with underpinning theory in a practical way alongside specific examples and proven tips. Beginning by exploring the key differences between qualitative and quantitative research the authors clearly explain the specific features of qualitative research and importantly clarify what qualitative research isn't.

Routledge
December 2022:608
Pb: 978-1-032-45637-9: £38.99
eBook: 978-1-003-37798-6
* For full contents and more information, visit: www.routledge.com/9781032456379

Transformative Moments in Qualitative Research

Method, Theory, and Reflection



Anna Cohen Miller

This groundbreaking book, eloquently fuses powerful stories of research with methodological insight and theory. Each chapter offers a clear, practical, and engaging exploration of qualitative inquiry, emphasizing the power of research to foster equity, inclusion, and justice-centered practice (e.g., social justice, economic justice, environmental/ecological justice). This book is an invaluable resource for graduate students, practitioners, and researchers to enhance their research and praxis. It will appeal to audiences across disciplinary backgrounds including social sciences, educational sciences, humanities, and STEM and health fields.

Routledge
December 2023:314
Hb: 978-1-032-38168-8: £130
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* For full contents and more information, visit: www.routledge.com/9781032381701

2ND EDITION

Essentials of Qualitative Inquiry



Maria J. Mayan

Series: Qualitative Essentials

Essentials of Qualitative Inquiry, Second Edition is the key resource for introducing applied researchers into the qualitative tradition due to its clear exposition, step-by-step approach, and emphasis on methodological coherence. Concise and inexpensive, this edition includes new material on methods, sampling, and analysis and introduces current trends in community-based research and arts-based research, among other updates.

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2ND EDITION

Thinking with Theory in Qualitative Research

Alecia Y. Jackson, Lisa A. Mazzei



Thinking with Theory in Qualitative Research, Second Edition demonstrates how to enact various philosophical concepts in practices of inquiry, effectively opening up the process of thought in qualitative studies. In the ten years since the first edition was published, Thinking with Theory has become a vanguard text in the field of postfoundational inquiry for its accessible but thorough introductions to philosophically informed inquiry. This book is for experienced and novice researchers, and students in introductory, general, and advanced qualitative inquiry courses, who may also be first-time readers of philosophy.

Routledge
July 2022:170

Hb: 978-1-138-95213-3: £130
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eBook: 978-1-315-66776-8

* For full contents and more information, visit: www.routledge.com/9781138952140

Qualitative Research Using Social Media

Gwen Bouvier, Joel Rasmussen



This book shows how to conduct qualitative research projects using social media data. It takes the reader through the stages of choosing data, formulating a research question, and choosing and applying method(s).

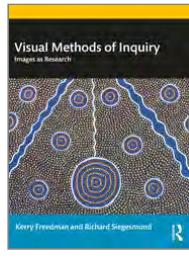
Routledge
March 2022:214
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Pb: 978-0-367-33347-8: £39.99
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* For full contents and more information, visit: www.routledge.com/9780367333478

Visual Methods of Inquiry

Images as Research

Kerry Freedman, Richard Siegesmund



Visual Methods of Inquiry: Images as Research presents qualitative researchers in the social sciences with the benefits, applications, and forms of visual research methods. It includes a wide variety of images to illustrate the many uses of visual methods for social research. Students of social science and the visual arts will find this book useful in expanding and improving their methods of inquiry. Artists and researchers already familiar with visual methods will find that this book clarifies the ways the visual works in various research contexts and provides helpful language to describe and explain those methods.

Routledge
October 2023:238
Hb: 978-0-367-25049-2: £130
Pb: 978-0-367-25048-5: £34.99
eBook: 978-0-429-28572-1

* For full contents and more information, visit: www.routledge.com/9780367250485

2ND EDITION

Research Methods for Environmental Studies

A Social Science Approach

Mark Kanazawa



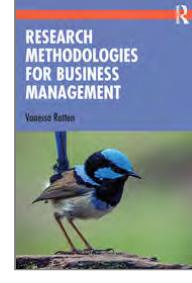
The methodological needs of environmental studies are unique in the breadth of research questions that can be posed, calling for a textbook that covers a broad swath of approaches to conducting research with potentially many different kinds of evidence. Drawing on a variety of extended and updated examples to encourage problem-based learning and fully addressing the challenges associated with interdisciplinary investigation, this book will be an essential resource for students embarking on courses exploring research methods in environmental studies.

Routledge
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Hb: 978-1-032-19841-5: £130
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* For full contents and more information, visit: www.routledge.com/9781032198408

Research Methodologies for Business Management

Vanessa Ratten



Most existing research methodologies texts take a more general approach or are edited books of previously published articles or chapters written by different authors. This book, written by a business management scholar, covers the fundamentals of business management research and its methodologies in a seamless, unified manner. It builds upon the knowledge by examining both qualitative and quantitative research methodologies in the context of business management. It will help business management students and junior researchers quickly build an essential base of knowledge and gain a strategic advantage in publishing and reviewing business related research.

Routledge
February 2023:158
Hb: 978-1-032-32338-1: £120
Pb: 978-1-032-32337-4: £39.99
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* For full contents and more information, visit: www.routledge.com/9781032323374

Researching and Analysing Business

Research Methods in Practice

Edited by Pantea Foroudi, Charles Dennis



Researching and Analysing Business provides an accessible and practical guide to various data collection and data analysis techniques within management. Unique in its practical approach, this book is required and recommended reading for advanced undergraduate and postgraduate students studying research methods.

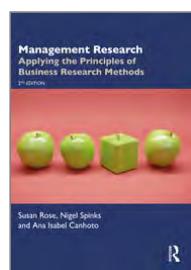
Routledge
December 2023:456
Hb: 978-0-367-62064-6: £140
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2ND EDITION

Management Research

Applying the Principles of Business Research Methods

**Susan Rose, Nigel Spinks, Ana Isabel Canhoto**

Management Research supports new researchers on every step of the research journey, from defining a project to communicating its findings, as well as balancing the technical aspects of research with the management of the project itself. Management Research provides essential reading for undergraduate and postgraduate students undertaking a dissertation, thesis or research project, as well as professionals currently practicing in the field.

Routledge

December 2023:482

Hb: 978-1-032-46296-7: £170

Pb: 978-1-032-46295-0: £49.99

eBook: 978-1-003-38100-6

* For full contents and more information, visit: www.routledge.com/9781032462950

2ND EDITION

Design Methods and Practices for Research of Project Management*Edited by Beverly Pasian, Rodney Turner*

Design Methods and Practices for Research of Project Management is the most comprehensive guide on how to do research of and in project management. This second edition of the authoritative reference book offers a substantial update on the first edition with over 60% new content and so provides both practitioner and student researchers with a fully up-to-date and complete guide to research practice on project management.

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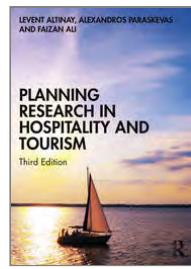
May 2024:368

Hb: 978-1-032-74496-4: £130

Pb: 978-1-032-12387-5: £35.99

* For full contents and more information, visit: www.routledge.com/9781032123875

3RD EDITION

Planning Research in Hospitality and Tourism**Levent Altinay, Alexandros Paraskevas, Faizan Ali**

Planning Research in Hospitality and Tourism, 3rd Edition is an accessible, concise and practical guide to planning, conducting and analysing research in tourism and hospitality. Enriched with insightful case studies throughout, this volume is essential reading for all tourism and hospitality researchers.

Routledge

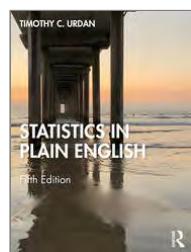
June 2024:272

Hb: 978-1-032-52257-9: £130

Pb: 978-1-032-52258-6: £44.99

* For full contents and more information, visit: www.routledge.com/9781032522586

5TH EDITION

Statistics in Plain English**Timothy C. Urdan**

Statistics in Plain English is a straightforward, conversational introduction to statistics that delivers exactly what its title promises. Each chapter begins with a brief overview of a statistic that describes what the statistic does and when to use it, followed by a detailed step-by-step explanation of how the statistic works and exactly what information it provides. Chapters also include an example of the statistic (or statistics) in use in real-world research, "Worked Examples," "Writing It Up" sections that demonstrate how to write about each statistic, "Wrapping Up and Looking Forward" sections, and practice work problems.

Routledge

March 2022:322

Hb: 978-0-367-34282-1: £170

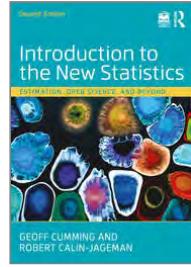
Pb: 978-0-367-34283-8: £32.99

* For full contents and more information, visit: www.routledge.com/9780367342838

2ND EDITION

Introduction to the New Statistics

Estimation, Open Science, and Beyond

**Geoff Cumming, Robert Calin-Jageman**

This fully revised and updated second edition is an essential introduction to inferential statistics. It is the first introductory statistics text to use an estimation approach with meta-analysis ("the new statistics") from the start and also to explain the new and exciting Open Science practices, which encourage replication and enhance the trustworthiness of research. Designed for introduction to statistics, data analysis or quantitative methods courses in psychology, education and other social and health sciences, researchers interested in understanding Open Science and the new statistics will also appreciate this book.

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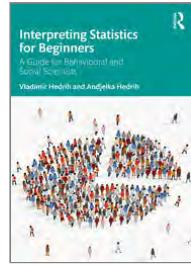
March 2024:610

Hb: 978-0-367-53149-2: £190

Pb: 978-0-367-53150-8: £62.99

* For full contents and more information, visit: www.routledge.com/9780367531508**Interpreting Statistics for Beginners**

A Guide for Behavioural and Social Scientists

**Vladimir Hedrih, Andjelka Hedrih**

Interpreting Statistics for Beginners teaches readers to correctly read and interpret results of basic statistical procedures as they are presented in scientific literature, and to understand what they can and cannot infer from such results. Written in an easy-to-read style and focusing on explaining concepts behind statistical calculations, the book is most helpful for readers with no previous training in statistics, and also those wishing to bridge the conceptual gap between doing the statistical calculations and interpreting the results.

Routledge

February 2022:204

Hb: 978-0-367-62051-6: £130

Pb: 978-0-367-61852-0: £34.99

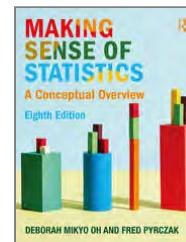
eBook: 978-1-003-10771-2

* For full contents and more information, visit: www.routledge.com/9780367618520

8TH EDITION

Making Sense of Statistics

A Conceptual Overview

**Deborah M. Oh, Fred Pyrczak**

Making Sense of Statistics, Eighth Edition, is the ideal introduction to the concepts of descriptive and inferential statistics for students undertaking their first research project. It presents each statistical concept in a series of short steps, then uses worked examples and exercises to enable students to apply their own learning. This conceptual book is useful for all study levels, from undergraduate to doctoral level across disciplines. Once students understand and feel comfortable with the statistics presented in this book, they should find it easy to master additional statistical concepts.

Routledge

June 2023:284

Hb: 978-1-032-28962-5: £120

Pb: 978-1-032-28964-9: £46.99

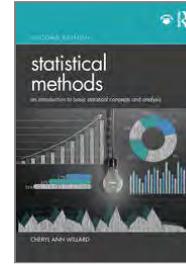
eBook: 978-1-003-29935-6

* For full contents and more information, visit: www.routledge.com/9781032289649

2ND EDITION

Statistical Methods

An Introduction to Basic Statistical Concepts and Analysis

**Cheryl Ann Willard**

Statistical Methods explains core statistical concepts and basic analysis techniques for the beginning undergraduate student in statistics or quantitative research methods. Each chapter covers a core concept before guiding students through a series of exercises designed to apply and demonstrate their knowledge. Expanded coverage of the second edition includes two new chapters on essential topics such as factorial analysis of variance, additional chapter exercises, and a full suite of instructor resources – powerpoint slides, instructor manual and test bank questions.

Routledge

March 2020:364

Hb: 978-0-367-20351-1: £170

Pb: 978-0-367-20352-8: £52.99

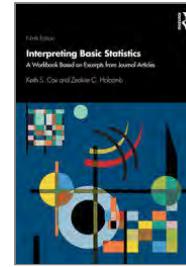
eBook: 978-0-429-26103-9

* For full contents and more information, visit: www.routledge.com/9780367203528

9TH EDITION

Interpreting Basic Statistics

A Workbook Based on Excerpts from Journal Articles

**Zealure C. Holcomb, Keith S. Cox, Zealure C. Holcomb**

Interpreting Basic Statistics gives students valuable practice in interpreting statistical reporting as it actually appears in peer-reviewed journals. The questions in each exercise are divided into two parts: (1) Factual Questions and (2) Questions for Discussion. The factual questions require careful reading for details, while the discussion questions show that interpreting statistics is more than a mathematical exercise. Each exercise covers a limited number of topics, making it easy to coordinate the exercises with lectures or a traditional statistics textbook.

Routledge

September 2021:258

Hb: 978-0-367-56051-5: £175

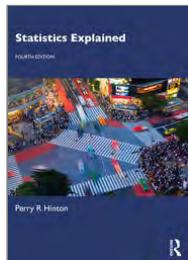
Pb: 978-0-367-56197-0: £56.99

eBook: 978-1-003-09676-4

* For full contents and more information, visit: www.routledge.com/9780367561970

4TH EDITION

Statistics Explained


Perry R. Hinton

Statistics Explained is an accessible introduction to statistical concepts and ideas for undergraduate and postgraduates students new to the field. It makes few assumptions about the reader's statistical knowledge, carefully explaining each step of the analysis and the logic behind it. This new edition will include instructions and tips on how to present data and findings from SPSS output files, updated and more extensive case studies, and a section on alternative statistical software like R.

Routledge

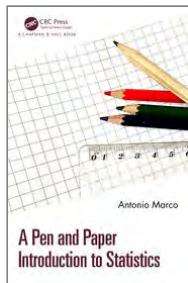
June 2024:368

Hb: 978-0-367-36638-4: £130

Pb: 978-0-367-36635-3: £36.99

* For full contents and more information, visit: www.routledge.com/9780367366353

A Pen and Paper Introduction to Statistics


Antonio Marco

This book proposes to reverse the way statistics is taught, by starting with the introduction of linear models. The reader will have the opportunity to work through the examples and compute sums of squares by just drawing and counting, and finally evaluating whether observed differences are statistically significant by using the tables provided. Intended for students, professional life scientists, and those with little prior knowledge of statistics, this book is for all with simple and clear examples, computations and drawings helping the reader to, not only do, but also to understand statistics.

Chapman & Hall

December 2023:160

Hb: 978-1-032-50511-4: £89.99

Pb: 978-1-032-50510-7: £31.99

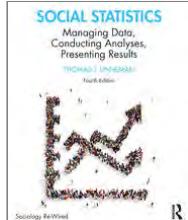
eBook: 978-1-003-39882-0

* For full contents and more information, visit: www.routledge.com/9781032505107

4TH EDITION

Social Statistics

Managing Data, Conducting Analyses, Presenting Results


Thomas J. Linneman

Series: Sociology Re-Wired

With a clear, engaging writing style and fascinating examples using a variety of real data, this text covers the contemporary statistical techniques that students will encounter in the world of social research. It covers these techniques at an introductory level and carefully guides students through increasingly complex examples without intimidating them. Recurrent examples using four timely topics – health, immigration, income inequality, and everyday harassment – help students understand how the techniques fit together, and how to use the techniques in combination with one another. Author created web resource accompanies the text.

Routledge

December 2021:678

Hb: 978-1-032-11623-5: £175

Pb: 978-1-032-11528-3: £94.99

eBook: 978-1-003-22077-0

* For full contents and more information, visit: www.routledge.com/9781032115283

2ND EDITION

Statistics for the Behavioural Sciences

An Introduction to Frequentist and Bayesian Approaches

Riccardo Russo

This accessible textbook is for those without a mathematical background (just some notions of basic algebra are sufficient) and provides a comprehensive introduction to all topics covered in introductory behavioural science statistics courses. This timely and highly readable text will be invaluable to undergraduate students of psychology and research methods courses in related disciplines, as well as anyone with an interest in understanding and applying the basic concepts and inferential techniques associated with statistics in the behavioural sciences.

Routledge

November 2020:330

Hb: 978-1-138-71148-8: £130

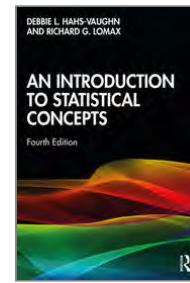
Pb: 978-1-138-71150-1: £34.99

eBook: 978-1-315-20041-5

* For full contents and more information, visit: www.routledge.com/9781138711501

4TH EDITION

An Introduction to Statistical Concepts


Debbie L. Hahs-Vaughn, Richard Lomax

This comprehensive, flexible text is used in both one- and two-semester courses to review introductory through intermediate statistics. Instructors select the topics that are most appropriate for their course. Its conceptual approach helps students more easily understand the concepts and interpret SPSS and research results. Noted for its crystal clear explanations, key concepts are simply stated and occasionally reintroduced and related to one another for reinforcement. Numerous examples demonstrate their relevance. This edition features even more explanation to increase understanding of the concepts and has annotated script for using R.

Routledge

February 2020:1186

Hb: 978-1-138-65055-8: £110

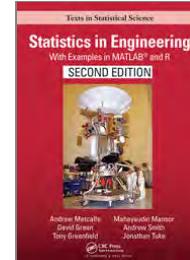
eBook: 978-1-315-62435-8

* For full contents and more information, visit: www.routledge.com/9781138650558

2ND EDITION

Statistics in Engineering

With Examples in MATLAB® and R, Second Edition


Andrew Metcalfe, David Green, Tony Greenfield, Mayhayaudin Mansor, Andrew Smith, Jonathan Tuke

This is a textbook for an undergraduate course in statistics for engineers with a minimal calculus prerequisite. The second edition differs from existing books in three main aspects: it is the only introductory statistics textbook written for engineers that uses R throughout the text, there is an emphasis on statistical methods most relevant to engineers that are illustrated with practical applications, and there is an emphasis on random number generation and simulation, all very useful features in engineering.

Chapman & Hall

June 2020:810

Hb: 978-1-439-89547-4: £84.99

Pb: 978-0-367-57062-0: £44.99

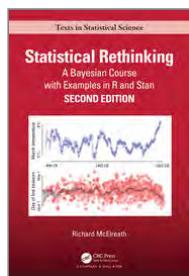
eBook: 978-1-315-11723-2

* For full contents and more information, visit: www.routledge.com/9780367570620

2ND EDITION

Statistical Rethinking

A Bayesian Course with Examples in R and Stan

**Richard McElreath***Series: Chapman & Hall/CRC Texts in Statistical Science*

The very popular *Statistical Rethinking: A Bayesian Course with Examples in R and Stan*, Second Edition builds readers' knowledge of and confidence in statistical modeling. Reflecting the need for even minor programming in today's model-based statistics, the book pushes readers to perform step-by-step calculations that are usually automated. This unique computational approach ensures that readers understand enough of the details to make reasonable choices and interpretations in their own modeling work.

Chapman & Hall

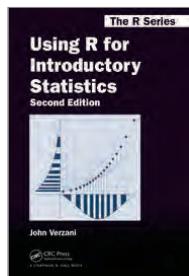
March 2020:612

Hb: 978-0-367-13991-9: £74.99

eBook: 978-0-429-02960-8

* For full contents and more information, visit: www.routledge.com/9780367139919

2ND EDITION

Using R for Introductory Statistics**John Verzani***Series: Chapman & Hall/CRC The R Series*

The second edition of a bestselling textbook, *Using R for Introductory Statistics* guides students through the basics of R, helping them overcome the sometimes steep learning curve. The author does this by breaking the material down into small, task-oriented steps. The second edition maintains the features that made the first edition so popular, while updating data, examples, and changes to R in line with the current version.

Chapman & Hall

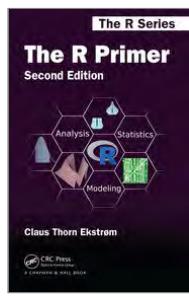
June 2014:518

Hb: 978-1-466-59073-1: £59.99

eBook: 978-1-315-37308-9

* For full contents and more information, visit: www.routledge.com/9781466590731

2ND EDITION

R Primer**Claus Thorn Ekstrøm***Series: Chapman & Hall/CRC The R Series*

Newcomers to R are often intimidated by the command-line interface, the vast number of functions and packages, or the processes of importing data and performing a simple statistical analysis. The R Primer provides a collection of concise examples and solutions to R problems frequently encountered by new users of this statistical software. This new edition adds coverage of R Studio and reproducible research.

Chapman & Hall

March 2017:426

Hb: 978-1-498-77255-6: £105

Pb: 978-1-138-63197-7: £51.99

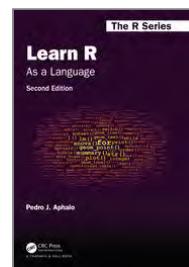
eBook: 978-1-315-15441-1

* For full contents and more information, visit: www.routledge.com/9781138631977

2ND EDITION

Learn R

As a Language

**Pedro J. Aphalo***Series: Chapman & Hall/CRC The R Series*

Learning a computer language like R can be either frustrating, fun, or boring. Having fun requires challenges that wake up the learner's curiosity but also provide an emotional reward on overcoming them. This is the second edition of a book designed so that it includes smaller and bigger challenges, in what I call playgrounds, in the hope that all readers will enjoy their path to R fluency.

Chapman & Hall

April 2024:462

Hb: 978-1-032-51843-5: £150

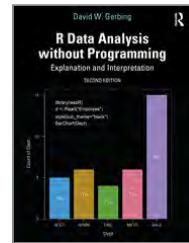
Pb: 978-1-032-51699-8: £59.99

* For full contents and more information, visit: www.routledge.com/9781032516998

2ND EDITION

R Data Analysis without Programming

Explanation and Interpretation

**David W. Gerbing**

The new edition of this innovative book, prepares the readers to quickly analyse data and interpret statistical results using R. Professor Gerbing has developed lessR, which is a ground-breaking method in alleviating the challenges of R programming. The lessR extends R, removing the need for programming. This edition expands upon the first edition's introduction to R through lessR which enables the readers to learn how to organize data for analysis, read the data into R, and generate output without performing numerous functions and programming exercises first.

Routledge

January 2023:378

Hb: 978-1-032-24402-0: £120

Pb: 978-1-032-24403-7: £48.99

eBook: 978-1-003-27841-2

* For full contents and more information, visit: www.routledge.com/9781032244037

3RD EDITION

SPSS Explained**Perry R. Hinton, Isabella McMurray, Charlotte Brownlow, Peter C. Terry**

SPSS Explained provides the student with all that they need to undertake statistical analysis using SPSS. It combines a step-by-step approach to each procedure with easy-to-follow screenshots at each stage of the process. The authors have many years of experience in teaching SPSS to students from a wide range of disciplines. Their understanding of SPSS users' concerns, as well as a knowledge of the type of questions students ask, form the foundation of this book.

Routledge

September 2023:386

Hb: 978-0-367-36698-8: £130

Pb: 978-0-367-36699-5: £48.99

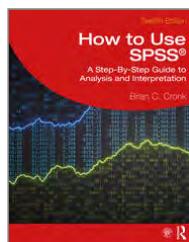
eBook: 978-0-429-35086-3

* For full contents and more information, visit: www.routledge.com/9780367366995

12TH EDITION

How to Use SPSS®

A Step-By-Step Guide to Analysis and Interpretation

**Brian C. Cronk**

This book is designed with the novice computer user in mind and for people who have no previous experience using SPSS. Each chapter is divided into short sections that describe the statistic being used, important underlying assumptions, and how to interpret the results and express them in a research report. The book begins with the basics, such as starting SPSS, defining variables, and entering and saving data. It covers all major statistical techniques typically taught in beginning statistics classes, such as descriptive statistics, graphing data, prediction and association, parametric inferential statistics, nonparametric inferential statistics and statistics for test construction.

Routledge

January 2024:252

Hb: 978-1-032-58519-2: £130

Pb: 978-1-032-58235-1: £58.99

eBook: 978-1-003-45046-7

* For full contents and more information, visit: www.routledge.com/9781032582351

18TH EDITION

IBM SPSS Statistics 29 Step by Step

A Simple Guide and Reference

**Darren George, Paul Mallery**

IBM SPSS Statistics 29 Step by Step: A Simple Guide and Reference, eighteenth edition, takes a straightforward, step-by-step approach that makes SPSS software clear to beginners and experienced researchers alike. Accompanied by updated online instructor's materials and website data files, this is an essential resource for instructors and students needing a guide to using SPSS in their work, across the social sciences, behavioural sciences, education, and beyond.

Routledge

March 2024:440

Hb: 978-1-032-62212-5: £200

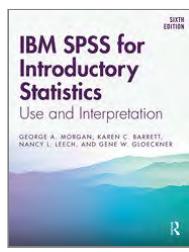
Pb: 978-1-032-62193-7: £66.99

* For full contents and more information, visit: www.routledge.com/9781032621937

6TH EDITION

IBM SPSS for Introductory Statistics

Use and Interpretation, Sixth Edition

**George A. Morgan, Karen C. Barrett, Nancy L. Leech, Gene W. Gloeckner**

Designed to help students analyze and interpret research data using IBM SPSS, this user-friendly book, written in easy-to-understand language, shows readers how to choose the appropriate statistic based on the design, and to interpret outputs appropriately. The sixth edition includes updated screenshots and instructions for IBM SPSS 24 and Windows 10, and adds helpful callouts to make the book even clearer and easy to use.

Routledge

July 2019:266

Hb: 978-1-138-57822-7: £150

Pb: 978-1-138-57821-0: £39.99

eBook: 978-0-429-28765-7

* For full contents and more information, visit: www.routledge.com/9781138578210

2ND EDITION

Applied Statistics for the Social and Health Sciences**Rachel A. Gordon**

Covering basic univariate and bivariate statistics and regression models for nominal, ordinal, and interval outcomes, this textbook provides graduate students in the social and health sciences with fundamental skills to estimate, interpret, and publish quantitative research using contemporary standards. Reflecting the growing importance of 'Big Data', this thoroughly revised and streamlined new edition, outlines changes in best practice in use of statistics in social and health sciences, draws upon new literatures and empirical examples, and highlights the importance of statistical programming, including coding, reproducibility, transparency, and open science.

Routledge

July 2023:800

Hb: 978-1-032-32343-5: £130

Pb: 978-1-032-32344-2: £39.99

eBook: 978-1-003-31453-0

* For full contents and more information, visit: www.routledge.com/9781032323442**Data Analytics for the Social Sciences**

Applications in R

G. David Garson

This book presents a complete exploration of statistical data analysis in R for a wide variety of social science disciplines and quantitative methods courses. Covering all the bases including multilevel modeling and ANOVA / ANCOVA, the book also goes further by looking at topics such as: neural networks to implement deep learning, thus solving complex problems other algorithms cannot; how to deal with missing values in real world data; and the use of text analytics. R code input and output is included. Suitable for all advanced level undergraduate and postgraduate students learning statistical data analysis.

Routledge

November 2021:704

Hb: 978-0-367-62429-3: £230

Pb: 978-0-367-62427-9: £82.99

eBook: 978-1-003-10939-6

* For full contents and more information, visit: www.routledge.com/9780367624279

5TH EDITION

Statistical Power Analysis

A Simple and General Model for Traditional and Modern Hypothesis Tests, Fifth Edition

Brett Myors, Kevin R. Murphy

Statistical Power Analysis explains the key concepts in statistical power analysis and illustrates their application in both tests of traditional null hypotheses. It provides readers with the tools to understand and perform power analyses for virtually all the statistical methods used in the social and behavioral sciences. This edition includes new material and new power software. The programs used for power analysis in this book have been re-written in R, a language that is widely used and freely available. Statistical Power Analysis helps readers design studies, diagnose existing studies, and understand why hypothesis tests come out the way they do.

Routledge

March 2023:224

Hb: 978-1-032-28301-2: £120

Pb: 978-1-032-28300-5: £49.99

eBook: 978-1-003-29622-5

* For full contents and more information, visit: www.routledge.com/9781032283005

Doing Statistical Analysis

A Student's Guide to Quantitative Research



Christer Thrane

Doing Statistical Analysis looks at three kinds of statistical research questions – descriptive, associational and inferential – and shows students how to conduct statistical analyses and interpret the results. Keeping equations to a minimum, it uses a conversational style and relatable examples such as football, covid-19 and tourism, to aid understanding. Each chapter contains practice exercises, and a section showing students how to reproduce the statistical results in the book using Stata and SPSS. Its accessible approach means this is the ideal textbook for undergraduate students across the social and behavioural sciences needing to build their confidence with statistical analysis.

Routledge

July 2022:266

Hb: 978-1-032-18030-4: £130

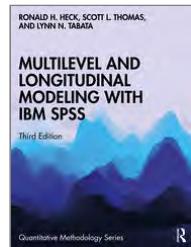
Pb: 978-1-032-17132-6: £48.99

eBook: 978-1-003-25255-9

* For full contents and more information, visit: www.routledge.com/9781032171326

3RD EDITION

Multilevel and Longitudinal Modeling with IBM SPSS



Ronald H. Heck, Scott L. Thomas, Lynn N. Tabata

Series: Quantitative Methodology Series

This text demonstrates how to use the multilevel- and longitudinal-modeling techniques available in IBM SPSS (Version 26). Adopting a workbook format, the text walks readers through setting up, running, and interpreting a variety of different types of multilevel and longitudinal models using the linear mixed-effects model (MIXED and GENLINMIXED) platforms in SPSS. This text is an essential resource for graduate students taking courses on multilevel, longitudinal, and latent variable modeling, multivariate statistics, or advanced quantitative techniques.

Routledge

April 2022:494

Hb: 978-0-367-42460-2: £160

Pb: 978-0-367-42461-9: £46.99

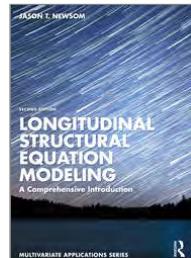
eBook: 978-0-367-82427-3

* For full contents and more information, visit: www.routledge.com/9780367424619

2ND EDITION

Longitudinal Structural Equation Modeling

A Comprehensive Introduction



Jason T. Newsom

Series: Multivariate Applications Series

Longitudinal Structural Equation Modeling, Second Edition provides an in-depth, comprehensive overview of structural equation modeling (SEM) strategies for longitudinal data to help readers see which modeling options are available for which hypotheses. Ideal for graduate courses on longitudinal (data) analysis, advanced SEM, longitudinal SEM, and/or advanced data (quantitative) analysis taught in the behavioral, social, and health sciences, Longitudinal Structural Equation Modeling, Second Edition, also appeals to researchers in these fields, and the first edition has been popular as a standard reference for this type of analysis.

Routledge

October 2023:522

Hb: 978-1-032-20283-9: £130

Pb: 978-1-032-20286-0: £68.99

eBook: 978-1-003-26303-6

* For full contents and more information, visit: www.routledge.com/9781032202860

7TH EDITION

Advanced and Multivariate Statistical Methods

Practical Application and Interpretation



Craig A. Mertler, Rachel A. Vannatta, Kristina N. LaVenia

Ideal for non-math majors, Advanced and Multivariate Statistical Methods teaches students to interpret, present, and write up results for each statistical technique without overemphasizing advanced math. This highly applied approach covers the why, what, when and how of advanced and multivariate statistics in a way that is neither too technical nor too mathematical. Students also learn how to compute each technique using SPSS software. New to the seventh edition: Updated to SPSS 26 All screenshots and images in full colour Fully updated ancillaries including how to videos for both statistical techniques and SPSS walkthroughs

Routledge

November 2021:350

Hb: 978-0-367-49720-0: £325

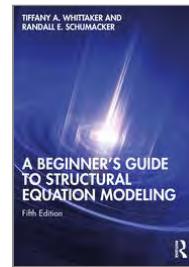
Pb: 978-0-367-49747-7: £130

eBook: 978-1-003-04722-3

* For full contents and more information, visit: www.routledge.com/9780367497477

5TH EDITION

A Beginner's Guide to Structural Equation Modeling



Tiffany A. Whittaker, Randall E. Schumacker

A Beginner's Guide to Structural Equation Modeling, fifth edition, has been redesigned with consideration of a true beginner in structural equation modeling (SEM) in mind. The book covers introductory through intermediate topics in SEM in more detail than in any previous edition. This book is intended for true beginners in structural equation modeling and is designed for introductory graduate courses in structural equation modeling taught in psychology, education, business, and the social and healthcare sciences. This book also appeals to researchers and faculty in various disciplines. Prerequisites include correlation and regression methods.

Routledge

May 2022:418

Hb: 978-0-367-49015-7: £130

Pb: 978-0-367-47796-7: £66.99

eBook: 978-1-003-04401-7

* For full contents and more information, visit: www.routledge.com/9780367477967

2ND EDITION

Regression Analysis

A Practical Introduction



Jeremy Arkes

Regression Analysis covers the concepts needed to design optimal regression models and to properly interpret regressions. It details the most common pitfalls, including three sources of bias not covered in other textbooks. This second edition features a new chapter on integrity and ethics, and has been updated throughout to include more international examples. It is ideal for anyone learning quantitative methods in the social sciences, business, medicine, and data analytics. It will also appeal to researchers and academics looking to better understand regressions.

Routledge

January 2023:412

Hb: 978-1-032-25784-6: £120

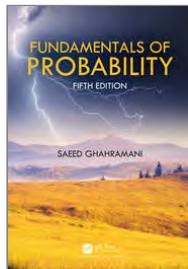
Pb: 978-1-032-25783-9: £39.99

eBook: 978-1-003-28500-7

* For full contents and more information, visit: www.routledge.com/9781032257839

5TH EDITION

Fundamentals of Probability



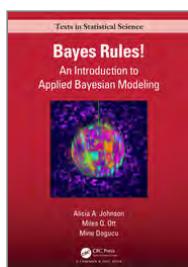
Saeed Ghahramani

This one- or two-term calculus-based basic probability text is written for majors in mathematics, physical sciences, engineering, statistics, actuarial science, business and finance, operations research, and computer science. It presents probability in a natural way: through interesting and instructive examples and exercises that motivate the theory, definitions, theorems, and methodology. This book is mathematically rigorous and, at the same time, closely matches the historical development of probability. Whenever appropriate, historical remarks are included, and the 2096 examples and exercises have been designed to arouse curiosity and encourage students to delve into the theory.

Chapman & Hall
May 2024:704
Hb: 978-1-032-36608-1: £110
* For full contents and more information, visit: www.routledge.com/9781032366081

Bayes Rules!

An Introduction to Applied Bayesian Modeling



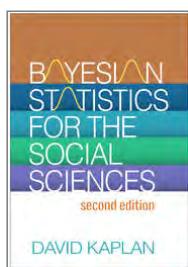
Alicia A. Johnson, Miles Q. Ott, Mine Dogucu

Series: Chapman & Hall/CRC Texts in Statistical Science
An engaging, sophisticated, and fun introduction to the field of Bayesian Statistics, Bayes Rules! An Introduction to Bayesian Modeling with R brings the power of modern Bayesian thinking, modeling, and computing to a broad audience. In particular, it is an ideal resource for advanced undergraduate Statistics students and practitioners with comparable experience. Bayes Rules! empowers readers to weave Bayesian approaches into their everyday practice.

Chapman & Hall
March 2022:544
Hb: 978-1-032-19159-1: £170
Pb: 978-0-367-25539-8: £59.99
eBook: 978-0-429-28834-0
* For full contents and more information, visit: www.routledge.com/9780367255398

2ND EDITION

Bayesian Statistics for the Social Sciences, Second Edition



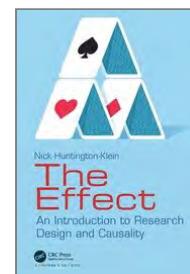
David Kaplan

This book equips social science researchers to apply the latest Bayesian methodologies to their data analysis problems. The second edition includes new chapters on model uncertainty, Bayesian variable selection and sparsity, and Bayesian workflow for statistical modeling, and emphasizes use of the RStan software package. Topics include frequentist and epistemic probability, prior distributions, Hamiltonian Monte Carlo, Bayesian linear regression and generalized linear models, model evaluation and comparison, multilevel modeling, missing data, and more. The book includes worked-through examples with annotated RStan code, and features a helpful companion website.

Guilford Press
December 2023:250
Hb: 978-1-462-55354-9: £57.99
* For full contents and more information, visit: www.routledge.com/9781462553549

The Effect

An Introduction to Research Design and Causality



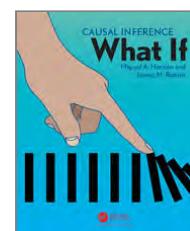
Nick Huntington-Klein

The Effect: An Introduction to Research Design and Causality is about research design, specifically concerning research that uses observational data to make a causal inference. It is separated into two halves, each with different approaches to that subject. The first half goes through the concepts of causality, with very little in the way of estimation. It introduces the concept of identification thoroughly and clearly and discusses it as a process of trying to isolate variation that has a causal interpretation. Subjects include heavy emphasis on data-generating processes and causal diagrams.

Chapman & Hall
January 2022:646
Hb: 978-1-032-12745-3: £82.99
Pb: 978-1-032-12578-7: £29.99
eBook: 978-1-003-22605-5
* For full contents and more information, visit: www.routledge.com/9781032125787

Causal Inference

What If



Miguel A. Hernan, James M. Robins

The application of causal inference methods is growing exponentially in fields that deal with observational data. Written by pioneers in the field, this practical book presents an authoritative yet accessible overview of the methods and applications of causal inference. With a wide range of detailed, worked examples using real epidemiologic data as well as software for replicating the analyses, the text provides a thorough introduction to the basics of the theory for non-time-varying treatments and the generalization to complex longitudinal data.

CRC Press
April 2024:312
Hb: 978-1-420-07616-5: £36.99
* For full contents and more information, visit: www.routledge.com/9781420076165

A First Course in Causal Inference

Peng Ding

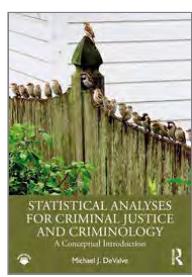
Series: Chapman & Hall/CRC Texts in Statistical Science

This textbook, based on the author's course on causal inference at UC Berkeley taught over the past seven years, only requires basic knowledge of probability theory, statistical inference, and linear and logistic regressions. It assumes minimal knowledge of causal inference, and reviews basic probability and statistics in the appendix. It covers causal inference from a statistical perspective and includes examples and applications from biostatistics and econometrics. This book is suitable for an advanced undergraduate or graduate-level course on causal inference, or postgraduate and PhD-level course in statistics and biostatistics departments.

Chapman & Hall
June 2024:448
Hb: 978-1-032-75862-6: £59.99
* For full contents and more information, visit: www.routledge.com/9781032758626

Statistical Analyses for Criminal Justice and Criminology

A Conceptual Introduction



Michael J. DeValve

This book is a how-to guide for statistical analyses designed for undergraduates and others new to the subject. Written in an easy-going and clear style, the book uses policing data to illustrate concepts and includes a short narrative at the beginning of each chapter to engage readers. Easily identified Main Take-Aways and Key Terms features aid student understanding. Designed to combat the fear of mathematics and statistics often held by students in the social sciences, plain verbiage, multiple examples, and clear demonstrations combine to achieve the actualization and proper contextualized use of univariate and bivariate statistics.

Routledge

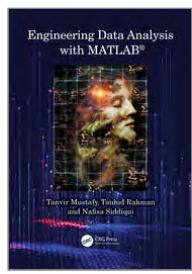
June 2024:272

Hb: 978-1-032-63858-4: £130

Pb: 978-1-032-63854-6: £34.99

* For full contents and more information, visit: www.routledge.com/9781032638546

Engineering Data Analysis with MATLAB®



Tanvir Mustafy, Tauhid Rahman, Nafisa Siddiqui

This book provides a concise overview of a variety of techniques for analyzing statistical, scientific, and financial data, using MATLAB® to integrate several approaches to data analysis and statistics. Chapters offer a broad review of computational data analysis, illustrated with many examples and applications. Each chapter combines theoretical concepts with practical MATLAB® applications and includes practice exercises, ensuring a comprehensive understanding of the material. With coverage of both basic and more complex ideas in applied statistics, the book has broad appeal for undergraduate students up to practicing engineers.

CRC Press

June 2024:850

Hb: 978-1-032-50658-6: £140

Pb: 978-1-032-50771-2: £69.99

* For full contents and more information, visit: www.routledge.com/9781032507712

Data Science

A First Introduction



Tiffany Timbers, Trevor Campbell, Melissa Lee

Series: Chapman & Hall/CRC Data Science Series

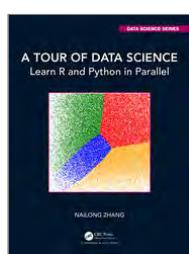
Data Science: A First Introduction focuses on using the R programming language in Jupyter notebooks to perform data manipulation and cleaning, create effective visualizations, and extract insights from data using classification, regression, clustering, and inference. The text emphasizes workflows that are clear, reproducible, and shareable, and includes coverage of the basics of version control. All source code is available online, demonstrating the use of good reproducible project workflows.

Chapman & Hall
July 2022:456
Hb: 978-0-367-53217-8: £120
Pb: 978-0-367-52468-5: £48.99
eBook: 978-1-003-08097-8

* For full contents and more information, visit: www.routledge.com/9780367524685

A Tour of Data Science

Learn R and Python in Parallel



Nailong Zhang

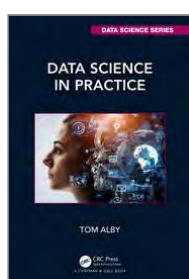
Series: Chapman & Hall/CRC Data Science Series

This book covers the fundamentals of data science, including programming, statistics, optimization, and machine learning in a single and short book. It does not cover everything, but instead, teaches the key concepts and topics. It also covers two of the most popular programming languages used in Data Science, R and Python, in one source.

Chapman & Hall
November 2020:216
Hb: 978-0-367-89706-2: £130
Pb: 978-0-367-89586-0: £48.99
eBook: 978-1-003-02064-6

* For full contents and more information, visit: www.routledge.com/9780367895860

Data Science in Practice



Tom Alby

Series: Chapman & Hall/CRC Data Science Series

Data Science in Practice is the ideal introduction to data science. With or without math skills: Here you get the all-round view that you need for your projects. This book describes how to properly question data, to unearth the treasure that data can be. As technology alone is not enough, this book also deals with problems in project implementation, illuminates various fields of application and addresses ethical aspects. Data Science in Practice includes many examples, notes on errors, decision-making aids and other practical tips, and is ideal as a complementary text for university students, or as a useful learning tool for those starting more data-related roles.

Chapman & Hall
September 2023:318
Hb: 978-1-032-50524-4: £140
Pb: 978-1-032-50526-8: £54.99
eBook: 978-1-003-42636-3

* For full contents and more information, visit: www.routledge.com/9781032505268

Data Science and Analytics with Python

Jesus Rogel-Salazar

Series: Chapman & Hall/CRC Data Mining and Knowledge Discovery Series

The book is designed for practitioners in data science and data analytics in both academic and business environments. The aim is to present the reader with the main concepts used in data analytics using tools developed in Python, such as SciKit Learn, Pandas, Numpy, etc. The use of Python is of particular benefit given its recent popularity in the data science community, and the book can be used by seasoned programmers and newcomers alike.

Chapman & Hall
August 2017:412
Hb: 978-1-138-04317-6: £115
Pb: 978-1-498-74209-2: £52.99
eBook: 978-1-315-15167-0

* For full contents and more information, visit: www.routledge.com/9781498742092

Advanced Data Science and Analytics with Python

Jesus Rogel-Salazar

Series: Chapman & Hall/CRC Data Mining and Knowledge Discovery Series

The book is intended for practitioners in data science and data analytics in both academic and business environments. It aims to present the reader with concepts in data science and analytics that were deemed to be more advanced or simply out of scope in the author's first book, and are used in data analytics using tools developed in Python such as SciKit Learn, Pandas, Numpy, etc. The use of Python is of particular benefit given its recent popularity in the data science community. The book is therefore a reference to be used by seasoned programmers and newcomers alike and the key benefit is the practical approach presented throughout the book.

Chapman & Hall
May 2020:424
Hb: 978-0-429-44661-0: £110
Pb: 978-1-138-31506-8: £48.99
eBook: 978-0-429-44664-1

* For full contents and more information, visit: www.routledge.com/9781138315068

Foundations of Data Science with Python

John M. Shea

Series: Chapman & Hall/CRC The Python Series

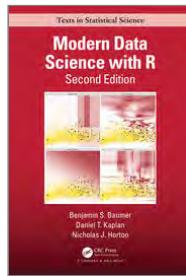
Foundations of Data Science with Python introduces readers to the fundamentals of data science, including data manipulation and visualization, probability, statistics, and dimensionality reduction. This book is targeted toward engineers and scientists, but it should be readily understandable to anyone who knows basic calculus and the essentials of computer programming. This book can be used as an undergraduate textbook for an Introduction to Data Science course or to provide a more contemporary approach in courses like Engineering Statistics. It is also intended to be accessible to practicing engineers and scientists

Chapman & Hall
February 2024:496
Hb: 978-1-032-34674-8: £175
Pb: 978-1-032-35042-4: £68.99

* For full contents and more information, visit: www.routledge.com/9781032350424

2ND EDITION

Modern Data Science with R



Benjamin S. Baumer, Daniel T. Kaplan, Nicholas J. Horton

Series: Chapman & Hall/CRC Texts in Statistical Science

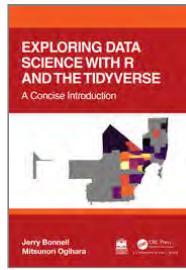
New data technologies and database systems facilitate scraping data and merging information from different sources and formats and restructuring data into a form suitable for analysis. State-of-the-art workflow and tools foster well-documented and reproducible analysis. Modern statistical methods allow the analyst to fit and assess models as well as to undertake supervised or unsupervised learning to extract information. Contemporary data science requires tight integration of these statistics, computing, data skills, mathematics, and communication. The text is intended for readers with some background in statistics and modest prior experience in scripting and programming.

Chapman & Hall
April 2021:650
Hb: 978-0-367-19149-8: £82.99
eBook: 978-0-429-20071-7

* For full contents and more information, visit: www.routledge.com/9780367191498

Exploring Data Science with R and the Tidyverse

A Concise Introduction



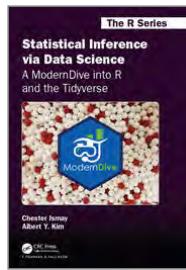
Jerry Bonnell, Mitsunori Ogihara

This book introduces the reader to data science using R and the tidyverse. No prerequisite knowledge is needed in college-level programming or mathematics (e.g., calculus or statistics). The book is self-contained so readers can immediately begin building data science workflows without needing to reference extensive amounts of external resources for onboarding. The contents are targeted for undergraduate students but are equally applicable to students at the graduate level and beyond. The book develops concepts using many real-world examples to motivate the reader. An exercise set is made available and designed for compatibility with automated grading tools for instructor use.

Chapman & Hall
August 2023:492
Hb: 978-1-032-32950-5: £190
Pb: 978-1-032-34170-5: £74.99
eBook: 978-1-003-32084-5

* For full contents and more information, visit: www.routledge.com/9781032341705

Statistical Inference via Data Science: A ModernDive into R and the Tidyverse



Chester Ismay, Albert Y. Kim

Series: Chapman & Hall/CRC The R Series

This is a modern textbook in statistical inference, using the principles of data science through R and the Tidyverse. It assumes minimal background knowledge of the reader: there is no algebra, no calculus, and no prior programming/coding experience. It is designed to be a gentle introduction to the practice of analyzing data and answering questions using data the way data scientists, statisticians, data journalists, and other researchers would. This book is suitable for teaching a first course in statistical inference at undergraduate level.

Chapman & Hall
December 2019:460
Hb: 978-0-367-40987-6: £170
Pb: 978-0-367-40982-1: £66.99
eBook: 978-0-367-40991-3

* For full contents and more information, visit: www.routledge.com/9780367409821

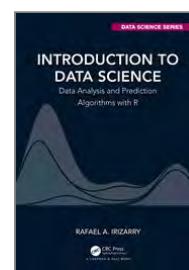
Introduction to Data Science

Data Analysis and Prediction Algorithms with R

Rafael A. Irizarry

Series: Chapman & Hall/CRC Data Science Series

The book begins by going over the basics of R and the tidyverse. You learn R throughout the book, but in the first part we go over the building blocks needed to keep learning during the rest of the book.



Chapman & Hall
November 2019:743
Hb: 978-0-367-35798-6: £82.99
eBook: 978-0-429-34183-0

* For full contents and more information, visit: www.routledge.com/9780367357986

Telling Stories with Data

With Applications in R

Rohan Alexander

Series: Chapman & Hall/CRC Data Science Series

The book equips students with the end-to-end skills needed to do data science. That means gathering, cleaning, preparing, and sharing data, then using statistical models to analyse data, writing about the results of those models, drawing conclusions from them, and finally, using the cloud to put a model into production, all done in a reproducible way. This book will achieve the goals by working through extensive case studies in terms of gathering and preparing data, and integrating ethics throughout. It is specifically designed around teaching how to write about the data and models, so aspects such as writing are explicitly covered.

Chapman & Hall
July 2023:622
Hb: 978-1-032-13477-2: £74.99
eBook: 978-1-003-22940-7

* For full contents and more information, visit: www.routledge.com/9781032134772

Practitioner's Guide to Data Science

Hui Lin, Ming Li

Series: Chapman & Hall/CRC Data Science Series

This book aims to increase the visibility of data science in real-world, which differs from what you learn from a typical textbook. Many aspects of day-to-day data science work are almost absent from conventional statistics, machine learning, and data science curriculum. This book is for readers who want to explore possible career paths and eventually become data scientists. This book comprehensively introduces various data science fields, and programming skills in data science projects. Traditional data-related practitioners such as statisticians, business analysts, and data analysts will find this book helpful in expanding their skills for future data science careers.

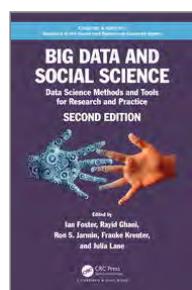
Chapman & Hall
May 2023:402
Hb: 978-0-815-35447-5: £140
Pb: 978-0-815-35439-0: £52.99
eBook: 978-1-351-13291-6

* For full contents and more information, visit: www.routledge.com/9780815354390

2ND EDITION

Big Data and Social Science

Data Science Methods and Tools for Research and Practice



Edited by **Ian Foster, Rayid Ghani, Ron S. Jarmin, Frauke Kreuter, Julia Lane**

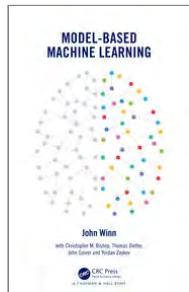
Series: Chapman & Hall/CRC Statistics in the Social and Behavioral Sciences

This classroom-tested book fills a major gap in graduate- and professional-level data science and social science education. It can be used to train a new generation of social data scientists to tackle real-world problems and improve the skills and competencies of applied social scientists and public policy practitioners. It empowers you to use the massive and rapidly growing amounts of available data to interpret economic and social activities in a scientific and rigorous manner.

Chapman & Hall
November 2020:412
Hb: 978-0-367-34187-9: £130
Pb: 978-0-367-56859-7: £52.99
eBook: 978-0-429-32438-3

* For full contents and more information, visit: www.routledge.com/9780367568597

Model-Based Machine Learning



John Winn

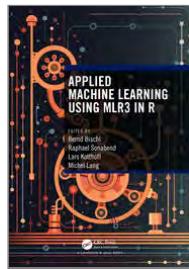
Machine learning is being applied to a growing variety of problems in a variety of domains. A fundamental challenge when using machine learning is connecting the abstract mathematics of a machine learning technique to real world problems. This book tackles this through model-based machine learning, focusing on understanding the assumptions encoded in a machine learning system and their impact on the behaviour of the system. The key ideas of model-based machine learning are introduced through case studies involving real-world applications. It aims not just to explain machine learning methods, but also how to create, debug, and evolve them to solve a problem.

Chapman & Hall
October 2023:468

Hb: 978-1-498-75681-5: £68.99
eBook: 978-0-429-19268-5

* For full contents and more information, visit: www.routledge.com/9781498756815

Applied Machine Learning Using mlr3 in R



Edited by Bernd Bischl, Raphael Sonabend, Lars Kotthoff, Michel Lang

mlr3 is an award-winning ecosystem of R packages that have been developed to enable state-of-the-art machine learning capabilities in R. This book gives an overview of flexible and robust machine learning methods, with an emphasis on how to implement them using mlr3 in R. It covers many key topics, including basic machine learning tasks, such as building and evaluating a predictive model; hyperparameter tuning of machine learning approaches to obtain peak performance; building machine learning pipelines that perform complex operations

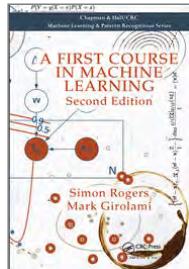
Chapman & Hall
January 2024:356

Hb: 978-1-032-51567-0: £150
Pb: 978-1-032-50754-5: £59.99
eBook: 978-1-003-40284-8

* For full contents and more information, visit: www.routledge.com/9781032507545

2ND EDITION

A First Course in Machine Learning



Simon Rogers, Mark Girolami

The new edition of this popular, undergraduate textbook has been revised and updated to reflect current growth areas in Machine Learning. The new edition includes three new chapters with more detailed discussion of Markov Chain Monte Carlo techniques, Classification and Regression with Gaussian Processes, and Dirichlet Process models. Previous chapters have also been updated to reflect new developments in Machine Learning, and correct any previous errors in the text.

Chapman & Hall
June 2020:428

Hb: 978-1-498-73848-4: £64.99
Pb: 978-0-367-57464-2: £39.99
eBook: 978-1-315-38215-9

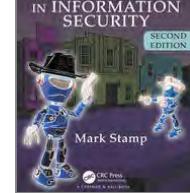
* For full contents and more information, visit: www.routledge.com/9780367574642

2ND EDITION

Introduction to Machine Learning with Applications in Information Security

Mark Stamp

Series: Chapman & Hall/CRC Machine Learning & Pattern Recognition



Introduction to Machine Learning with Applications in Information Security, Second Edition provides a classroom-tested introduction to a wide variety of machine learning and deep learning algorithms and techniques, reinforced via realistic applications. The book is accessible and doesn't prove theorems, or dwell on mathematical theory. The goal is to present topics at an intuitive level, with just enough detail to clarify the underlying concepts. The applications presented serve to demystify the topics by illustrating the use of various learning techniques in straightforward scenarios.

Chapman & Hall
September 2022:548
Hb: 978-1-032-20492-5: £62.99
eBook: 978-1-003-26487-3

* For full contents and more information, visit: www.routledge.com/9781032204925

Machine Learning Toolbox for Social Scientists

Applied Predictive Analytics with R

Yigit Aydede



Machine Learning Toolbox for Social Scientists covers predictive methods with complementary statistical "tools" that make it mostly self-contained. The inferential statistics is the traditional framework for most data analytics courses in social science and business fields, especially in Economics and Finance. The new organization that this book offers goes beyond standard machine learning code applications, providing intuitive backgrounds for new predictive methods that social science and business students can follow. The modern statistical methods the book provides allows it to be effectively used in teaching in the social science and business fields.

Chapman & Hall
September 2023:600
Hb: 978-1-032-46395-7: £74.99
eBook: 978-1-003-38150-1

* For full contents and more information, visit: www.routledge.com/9781032463957

Data Science and Machine Learning

Mathematical and Statistical Methods

Dirk P. Kroese, Zdravko Botev, Thomas Taimre

Series: Chapman & Hall/CRC Machine Learning & Pattern Recognition

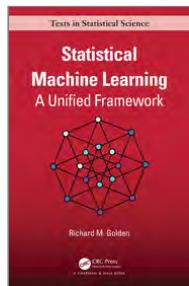
The purpose of this book is to provide an accessible, comprehensive textbook in data science and machine learning. The book will provide a solid basis in linear algebra, optimization, probability, and statistics. The main body will discuss the major topics in machine learning and data science: data manipulation, supervised and unsupervised learning, modelling of data, linear models, regression, classification, principal component analysis, deep learning, high dimensional data, regularization, kernel methods, support vector machines, etc.

Chapman & Hall
November 2019:538
Hb: 978-1-138-49253-0: £84.99
eBook: 978-0-367-81697-1

* For full contents and more information, visit: www.routledge.com/9781138492530

Statistical Machine Learning

A Unified Framework



Richard Golden

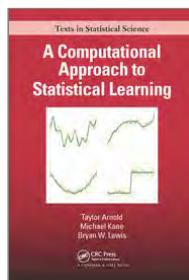
Series: Chapman & Hall/CRC Texts in Statistical Science

For advanced undergraduate students, graduate students, and professionals. Presents a wide range of popular, disparate, and diverse machine learning algorithms within a unified theoretical framework, characterized by a collection of carefully chosen theorems from the fields of nonlinear optimization theory and mathematical statistics which respectively characterize both asymptotic behavior and generalization performance. The purpose is to teach students how to confidently apply these theorems in practice. The only required mathematical prerequisites are lower-division linear algebra, lower-division calculus, and an upper-division calculus-based course in probability theory.

Chapman & Hall
July 2020:524
Hb: 978-1-138-48469-6: £99.99
eBook: 978-1-351-05150-7

* For full contents and more information, visit: www.routledge.com/9781138484696

A Computational Approach to Statistical Learning



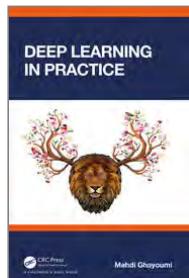
Taylor Arnold, Michael Kane, Bryan W. Lewis

This book synthesizes those techniques from numerical analysis, algorithms, data structures, and optimization theory most commonly employed in statistics and machine learning. We provide concrete applications of these methods by giving complete reference implementations for a large set of the most commonly used statistical estimators. The goal is to provide a self-contained textbook explaining the inner algorithmic workings of statistical estimators.

Chapman & Hall
June 2020:374
Hb: 978-1-138-04637-5: £74.99
Pb: 978-0-367-57061-3: £44.99
eBook: 978-1-315-17140-1

* For full contents and more information, visit: www.routledge.com/9780367570613

Deep Learning in Practice



Mehdi Ghasemi

Deep Learning in Practice helps you learn how to develop and optimize a model for your projects using Deep Learning (DL) methods and architectures. This book is useful for undergraduate and graduate students, as well as practitioners in industry and academia. It will serve as a useful reference for learning deep learning fundamentals and implementing a deep learning model for any project, step by step.

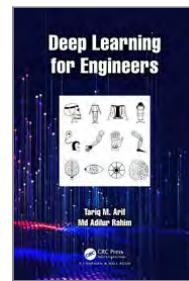
Chapman & Hall
December 2021:218
Hb: 978-0-367-45862-1: £77.99
eBook: 978-1-003-02581-8

* For full contents and more information, visit: www.routledge.com/9780367458621

Deep Learning for Engineers

Tariq M. Arif, Md Adilur Rahim

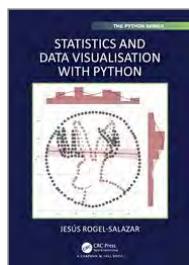
As a comprehensive guideline for applying deep learning models in practical settings, this book features an easy-to-understand coding structure using Python and PyTorch with an in-depth explanation of four typical deep learning case studies on image classification, object detection, semantic segmentation, and image captioning. Science and engineering students, academic researchers, and industry professionals will find the contents useful.



Chapman & Hall
February 2024:170
Hb: 978-1-032-50473-5: £82.99
Pb: 978-1-032-51581-6: £46.99

* For full contents and more information, visit: www.routledge.com/9781032515816

Statistics and Data Visualisation with Python



Jesus Rogel-Salazar

Series: Chapman & Hall/CRC The Python Series

Statistics and Data Visualisation with Python aims to build statistical knowledge from the ground up by enabling the reader to understand the ideas behind inferential statistics, and begin to formulate hypotheses that form the foundations for the applications and algorithms in statistical analysis, business analytics, machine learning and applied machine learning. This book is intended to serve as a bridge in statistics for graduates and business practitioners interested in using their skills in the area of statistical science, and data science and analytics, acting as a refresher for readers that have taken some courses in statistics, but no not necessarily use it in their daily work.

Chapman & Hall
January 2023:554

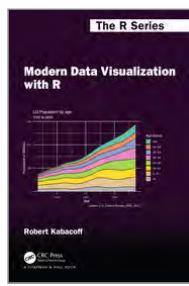
Hb: 978-0-367-74936-1: £120

Pb: 978-0-367-74451-9: £44.99

eBook: 978-1-003-16035-9

* For full contents and more information, visit: www.routledge.com/9780367744519

Modern Data Visualization with R



Robert Kabacoff

Series: Chapman & Hall/CRC The R Series

Describes ways that raw and summary data can be turned into visualizations that convey meaningful insights: basic graphs, bar charts, scatter plots, and line charts, and progresses to tree maps, alluvial plots, radar charts, mosaic plots, grouped dot plots, effects plots, multivariate presentations such as corrgrams, biplots, network diagrams.

Chapman & Hall
March 2024:265

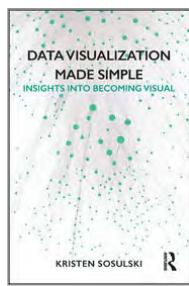
Hb: 978-1-032-28949-6: £150

Pb: 978-1-032-28760-7: £59.99

* For full contents and more information, visit: www.routledge.com/9781032287607

Data Visualization Made Simple

Insights into Becoming Visual



Kristen Sosulski

Data Visualization Made Simple is a practical guide to the fundamentals, strategies, and real-world cases for data visualization, an essential skill required in today's information-rich world. With foundations rooted in statistics, psychology, and computer science, data visualization offers practitioners in almost every field a coherent way to share findings from original research, big data, learning analytics, and more. Both novices and seasoned designers in education, business, and other areas can use this book's effective, linear process to develop data visualization literacy and promote exploratory, inquiry-based approaches to visualization problems.

Routledge
October 2018:284

Hb: 978-1-138-50387-8: £140

Pb: 978-1-138-50391-5: £36.99

eBook: 978-1-315-14609-6

* For full contents and more information, visit: www.routledge.com/9781138503915

Data Visualization

Charts, Maps, and Interactive Graphics

Robert Grant

Series: ASA-CRC Series on Statistical Reasoning in Science and Society

This is the age of data. There are more innovations and more opportunities for interesting work with data than ever before, but there is also an overwhelming amount of quantitative information being published every day. Data visualisation has become big business, because communication is the difference between success and failure, no matter how clever the analysis may have been. The ability to visualize data is now a skill in demand across business, government, NGOs and academia. Data Visualization: Charts, Maps, and Interactive Graphics gives an overview of a wide range of techniques and challenges, while staying accessible to anyone interested in working with and understanding data.

Chapman & Hall

December 2018:248

Hb: 978-1-138-55359-0: £84.99

Pb: 978-1-138-70760-3: £22.99

eBook: 978-1-315-20135-1

* For full contents and more information, visit: www.routledge.com/9781138707603

Data Sketches

A journey of imagination, exploration, and beautiful data visualizations

Nadieh Bremer, Shirley Wu

Series: AK Peters Visualization Series

In Data Sketches, Nadieh Bremer and Shirley Wu document the creative and collaborative process behind 24 unique data visualization projects, spanning different topics, technologies, and forms. Features: Technical write-ups with beginner-friendly explanations of core concepts; Practical lessons on data and design challenges; Full-color; Interview with Tamara Munzner; Foreword by Alberto Cairo. This book is perfect for anyone interested or working in data visualization and information design, especially those who want to take their work to the next level and are inspired by unique and compelling data-driven storytelling.

A K Peters/CRC Press

February 2021:428

Hb: 978-0-367-00012-7: £105

Pb: 978-0-367-00008-0: £39.99

eBook: 978-0-429-44501-9

* For full contents and more information, visit: www.routledge.com/9780367000080

Data Visualization in Excel

A Guide for Beginners, Intermediates, and Experts

Jonathan Schwabish

Series: AK Peters Visualization Series

Data Visualization in Excel closes the gap between what people think Excel can do and what they can achieve in the tool. Over the past few years, recognition of the importance of effectively visualizing data has led to an explosion data analysis and visualization software tools. But for many people, Microsoft Excel continues to be the workhorse for their data visualization needs, not to mention the only tool that many data workers have access to. This book is the perfect guide for anyone who wants to create better, more effective, and more engaging data visualizations.

A K Peters/CRC Press

May 2023:400

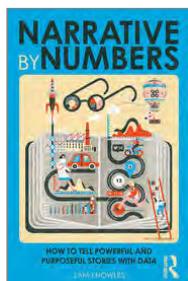
Hb: 978-1-032-34328-0: £74.99

Pb: 978-1-032-34326-6: £26.99

* For full contents and more information, visit: www.routledge.com/9781032343266

Narrative by Numbers

How to Tell Powerful and Purposeful Stories with Data



Sam Knowles

Series: Using Data Better

As jobs in the knowledge economy become increasingly similar, there are two core skills that everyone needs if they are going to thrive and succeed and to make a difference. These are the ability to interrogate and make sense of data, and the ability to use the insights extracted from the data to persuade others to take action. Analytics + storytelling = influence. Humans are hardwired to respond to stories and story structure. There are some simple and effective rules of data-driven storytelling that will help everyone tell more compelling, evidence-based stories, whoever they need to convince to create positive change. *Narrative by Numbers* shows you how.

Routledge

March 2018:176

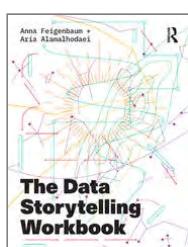
Hb: 978-0-815-35315-7: £130

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eBook: 978-1-351-13722-5

* For full contents and more information, visit: www.routledge.com/9780815353140

The Data Storytelling Workbook



Anna Feigenbaum, Aria Alamalhodaei

From tracking down information to symbolising human experiences, this book is your guide for telling more effective, empathetic and evidence-based data stories. Wide-ranging and in-depth, this interdisciplinary book is essential for students and researchers in journalism, communication, media, visual arts and cultural studies, as well as any who use data analysis and visualisation within their field.

Routledge

March 2020:256

Hb: 978-1-138-05210-9: £130

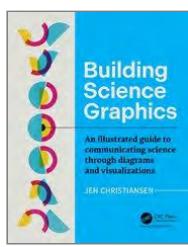
Pb: 978-1-138-05211-6: £34.99

eBook: 978-1-315-16801-2

* For full contents and more information, visit: www.routledge.com/9781138052116

Building Science Graphics

An Illustrated Guide to Communicating Science through Diagrams and Visualizations



Jen Christiansen

Series: AK Peters Visualization Series

Building Science Graphics is a practical guide for anyone interested in creating science-centric illustrated explanatory diagrams. Starting with a clear introduction to the concept of information graphics and their role in contemporary science communication, it then outlines a process for creating graphics using evidence-based design strategies. The heart of the book is composed of two step-by-step graphical worksheets, designed to help jump-start any new project.

A K Peters/CRC Press

August 2022:357

Hb: 978-1-032-10940-4: £94.99

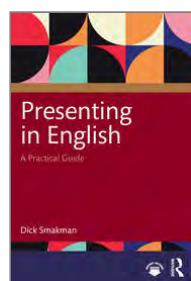
Pb: 978-1-032-10674-8: £38.99

eBook: 978-1-003-21781-7

* For full contents and more information, visit: www.routledge.com/9781032106748

Presenting in English

A Practical Guide



Dick Smakman

This practical guide introduces students to the language and other skills needed to deliver a presentation in English. Concise and accessible, the guide will be particularly helpful to learners of English. Accompanied by online support material with recordings, the book is an essential guide to delivering a successful presentation in English.

Routledge

June 2024:248

Hb: 978-1-032-62787-8: £130

Pb: 978-1-032-62532-4: £35.99

* For full contents and more information, visit: www.routledge.com/9781032625324

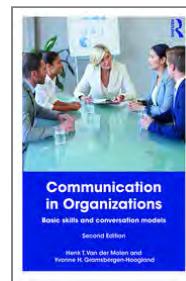
2ND EDITION

Communication in Organizations

2ND EDITION

Communication in Organizations

Basic Skills and Conversation Models



Henk T. Van der Molen, Yvonne Gramsbergen-Hoogland

This new edition continues to give clear advice and guidance on communicating in a range of different contexts in the workplace. From handling complaints and breaking bad news to negotiating deals and giving presentations, the book explores the building blocks to effective communication skills, nurturing the leadership qualities required in any organization. Illustrated with concrete examples throughout, the new edition includes a new chapter on career coaching, as well as exercises and ideas for role-play to enable the ideas to come alive. This will be an invaluable book for students of management and business psychology, as well as those taking courses who are already in the workplace.

Routledge

October 2018:214

Hb: 978-1-138-55210-4: £130

Pb: 978-1-138-55212-8: £31.99

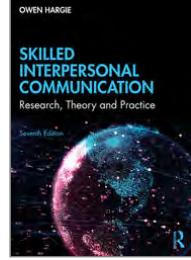
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Skilled Interpersonal Communication

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Owen Hargie

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Routledge

November 2021:678

Hb: 978-1-032-02185-0: £130

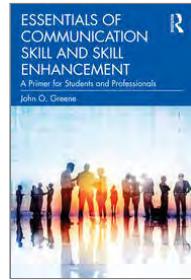
Pb: 978-1-032-00878-3: £48.99

eBook: 978-1-003-18226-9

* For full contents and more information, visit: www.routledge.com/9781032008783

Essentials of Communication Skill and Skill Enhancement

A Primer for Students and Professionals



John O. Greene

For those who wish to learn or teach the tools of skillful communication, this book provides concrete insight into what makes a person a successful communicator. Predicated on four simple notions—that communication can be done well or poorly, that communication skills matter, that people differ in those skills, and that those skills can be improved—the book helps readers identify and enhance their own communication strengths and address weaknesses, assess the communication skills of others, and coach others to improvement. This book is written for students and professionals in fields such as human resources, sales, training, counseling, customer relations, education, and healthcare.

Routledge

March 2021:174

Hb: 978-0-367-53838-5: £130

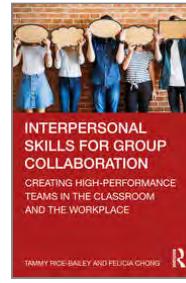
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eBook: 978-1-003-08345-0

* For full contents and more information, visit: www.routledge.com/9780367534288

Interpersonal Skills for Group Collaboration

Creating High-Performance Teams in the Classroom and the Workplace



Tammy Rice-Bailey, Felicia Chong

This lively and engaging text introduces readers to the core interpersonal and organizational skills needed to effectively collaborate on group projects in the classroom and the workplace. This guide can be used as a supplementary text for many courses involving group projects, and will also be of interest to professionals in communication, business, and many other fields.

Routledge
February 2023:142

Hb: 978-1-032-25907-9: £120

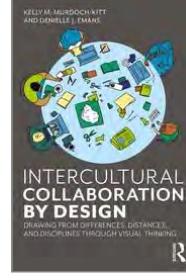
Pb: 978-1-032-25906-2: £34.99

eBook: 978-1-003-28557-1

* For full contents and more information, visit: www.routledge.com/9781032259062

Intercultural Collaboration by Design

Drawing from Differences, Distances, and Disciplines Through Visual Thinking



Kelly Murdoch-Kitt, Denielle Emans

Intercultural Collaboration by Design introduces a framework for collaborating across cultures and learning to use multicultural perspectives to address pressing global issues. With over 30 hands-on activities, this book will be of great interest to diverse teams from a variety of disciplines who want to enhance intercultural learning and co-working. Whether in the classroom or workplace, the activities are appropriate for a variety of collaboration contexts, without a need for background in art or design.

Routledge
January 2020:308

Hb: 978-0-367-21932-1: £115

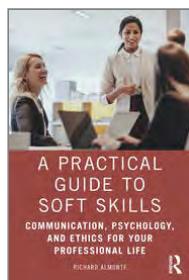
Pb: 978-0-367-21931-4: £31.99

eBook: 978-0-429-26882-3

* For full contents and more information, visit: www.routledge.com/9780367219314

A Practical Guide to Soft Skills

Communication, Psychology, and Ethics for Your Professional Life



Richard Almonte

This accessible text overviews the range of soft skills sought after by employers and provides a practical guide to developing and effectively demonstrating these skills. The book can be used as a supplement for communication, business, and career-oriented courses, and will be of interest to individual students and junior professionals as well as career counsellors, postsecondary instructors across the curriculum, and professionals in human resources and learning and development.

Routledge
December 2021:188
Hb: 978-1-032-08101-4: £130
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eBook: 978-1-003-21294-2

* For full contents and more information, visit: www.routledge.com/9781032071053

English for Business Communication



Mable Chan

Series: Routledge Applied English Language Introductions

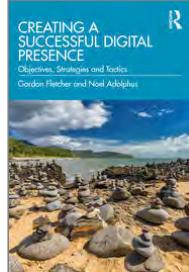
This textbook provides a comprehensive introduction for students and professionals who are studying English for business or workplace communication and covers both spoken and written English. Based on up-to-date research in business communication and incorporating an international range of real-world authentic texts, this book deals with the realities of communication in business today. This book goes beyond the traditional coverage of business English to provide a broad and practical textbook for those studying English in a workplace setting.

Routledge
January 2020:246
Hb: 978-1-138-48167-1: £130
Pb: 978-1-138-48168-8: £34.99
eBook: 978-1-351-06003-5

* For full contents and more information, visit: www.routledge.com/9781138481688

Creating a Successful Digital Presence

Objectives, Strategies and Tactics



Gordon Fletcher, Noel Adolphus

Increasingly graduates, and anyone entering employment, need an individual digital presence to showcase themselves to secure their first professional role. It takes an employability approach to encourage readers to recognise and deliver an effective digital presence. By using a strategic and systematic process, this book draws together academic thinking with practical outcomes. It is essential reading for advanced undergraduate and postgraduate students studying any discipline related to the digital world, particularly digital marketing and digital business, entrepreneurship and strategy, as well as those taking employability and personal professional development programmes.

Routledge
July 2021:212
Hb: 978-0-367-46034-1: £130
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eBook: 978-1-003-02658-7

* For full contents and more information, visit: www.routledge.com/9780367460372

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Dakota Horn

Now in its 21st edition, this introductory public speaking textbook encourages the reader to see public speaking as a way to build community in today's diverse world. This textbook is ideal for general courses on public speaking as well as specialized programs in business, management, political communication, and public affairs.



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Hb: 978-1-032-54052-8: £200
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* For full contents and more information, visit: www.routledge.com/9781032537634

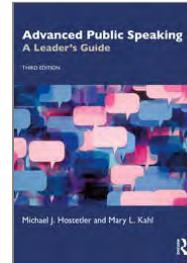
3RD EDITION

Advanced Public Speaking

A Leader's Guide

Michael J. Hostetler, Mary L. Kahl

Providing users with the opportunity to increase their speaking abilities across a wide variety of complex and specific contexts, this student-engagement focused and flexible text serves as a core textbook for upper-level undergraduate public speaking courses.



Routledge
March 2024:214
Hb: 978-1-032-53187-8: £125
Pb: 978-1-032-53186-1: £56.99
* For full contents and more information, visit: www.routledge.com/9781032531861

Building Science Graphics

An Illustrated Guide to Communicating Science through Diagrams and Visualizations

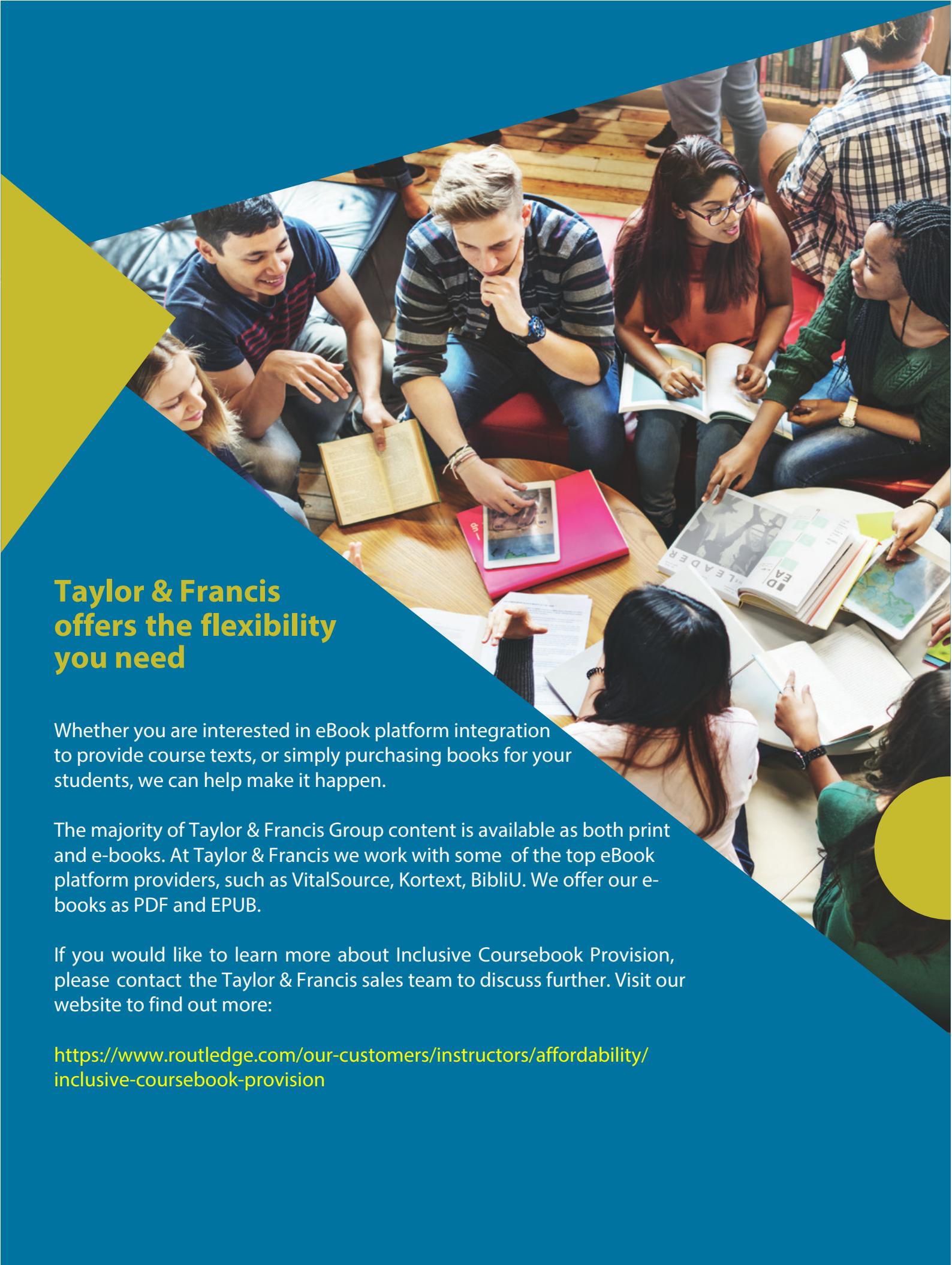
Jen Christiansen

Series: AK Peters Visualization Series

Building Science Graphics is a practical guide for anyone interested in creating science-centric illustrated explanatory diagrams. Starting with a clear introduction to the concept of information graphics and their role in contemporary science communication, it then outlines a process for creating graphics using evidence-based design strategies. The heart of the book is composed of two step-by-step graphical worksheets, designed to help jump-start any new project.



A K Peters/CRC Press
August 2022:357
Hb: 978-1-032-10940-4: £94.99
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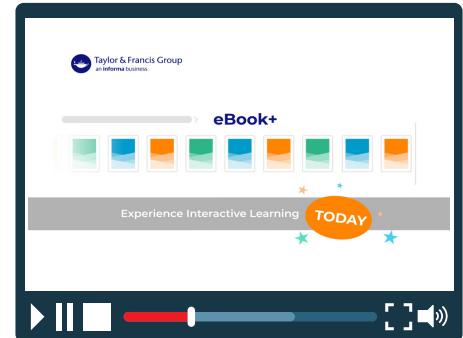
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