

Routledge

Chemistry
Textbook Catalogue
Fall 2025



Welcome

Taylor & Francis are pleased to present a selection of our most suitable textbooks for your teaching. Titles have been selected from our comprehensive Routledge and CRC Press lists, full details of which can be found on our website: www.routledge.com If there are any subject areas not included in this catalogue which you are looking for resources for, do get in touch with us and we will see what we can provide. We are, as always, keen to view textbook publishing as a collaborative process and look forward to working with you in the future.

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The Faculty Resources hub offers a range of resources to help you with your career in academia. With loads of free content to download and short articles addressing key topics, our aim is to help you navigate your journey as a professional working in higher education.

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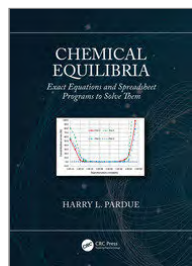
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Chemical Equilibria

Exact Equations and Spreadsheet Programs to Solve Them



Harry L. Pardue Professor Emeritus, Department of Chemistry, Purdue University, USA

Concepts, procedures and programs described in this book make it possible for readers to solve both simple and complex equilibria problems quickly and easily and to visualize results in both numerical and graphical forms. They allow the user to calculate concentrations of reactants and products for both simple and complicated situations. The user can spend less time doing calculations and more time thinking about what the results mean in terms of a larger problem in which she or he may be interested.

CRC Press

December 2018 : 267pp

Pb: 978-1-138-36722-7 : **£74.99**

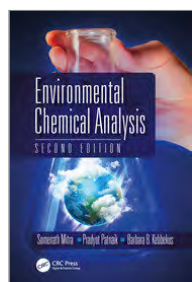
Hb: 978-1-138-36725-8 : **£160**

eBook: 978-0-429-42989-7

* For full contents and more information, visit: www.routledge.com/9781138367227

2ND EDITION

Environmental Chemical Analysis



S. Mitra New Jersey Institute of Technology, Newark, USA
B.B. Kebbekus New Jersey Institute of Technology, Newark, USA

Environmental Chemical Analysis provides an explanation of analytical instrumentation methods for students without a background in analytical chemistry. This second edition features expanded material on sample preparation and quality assurance and control. It also includes new chapters on biological analysis and analysis of environmental particulates. It brings together sampling, sample preparation, and analytical techniques necessary for environmental applications, demonstrated through case studies of actual environmental measurement protocols.

CRC Press

August 2018 : 449pp

Pb: 978-0-849-33838-0 : **£74.99**

Hb: 978-1-138-60409-4 : **£220**

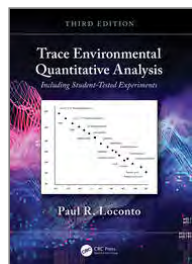
eBook: 978-0-429-45820-0

* For full contents and more information, visit: www.routledge.com/9780849338380

3RD EDITION

Trace Environmental Quantitative Analysis

Including Student-Tested Experiments



Paul R. Loconto Michigan Department of Community Health, Lansing, USA

A thorough and timely update, this new edition presents principles, techniques and applications in this sub-discipline of analytical chemistry for quantifying traces of potentially toxic organic and inorganic chemical substances found in air, soil, fish and water as well as serum, plasma, urine, and other body fluids.

CRC Press

January 2024 : 766pp

Pb: 978-0-367-63106-2 : **£79.99**

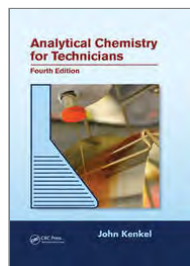
Hb: 978-0-367-44533-1 : **£215**

eBook: 978-1-003-01060-9

* For full contents and more information, visit: www.routledge.com/9780367631062

4TH EDITION

Analytical Chemistry for Technicians



John Kenkel Emeritus, Southeast Community College,
Lincoln, Nebraska, USA

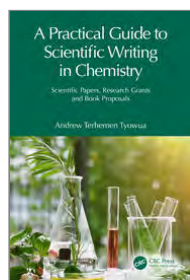
Covering classic quantitative analysis and related experiments, this thoroughly updated fourth edition is designed to be a powerful training tool for chemistry-based laboratory technicians. Emphasizing the practical aspects, the book begins with an introduction to analytical science and follows with a practical approach to the complex world of sophisticated electronic instrumentation commonly used in real-world laboratories. Providing a foundation for the two key qualities—the analytical mindset and a basic understanding of the analytical instrumentation—this book helps prepare individuals for success on the job.

CRC Press
August 2013 : 537pp
Hb: 978-1-439-88105-7 : **£130**
eBook: 978-0-429-11140-2

* For full contents and more information, visit: www.routledge.com/9781439881057

A Practical Guide to Scientific Writing in Chemistry

Scientific Papers, Research Grants and Book Proposals



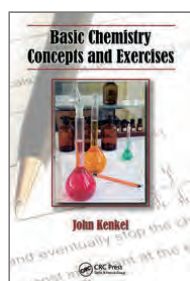
Andrew Terhemen Tyowua Benue State University, Dept. of Chemistry

Successful completion of postgraduate studies, especially PhD, and career advancement in academia strongly depends on the ability to publish scientific papers or books and research grant proposals. However, many chemical scientists find preparing scientific papers, research grant and book proposals difficult; partly because of insufficient training in writing and partly because there are few practical books to enable them to learn the art. This step-by-step practical guide is intended mainly for postgraduate students and early career researchers in chemical science and the libraries that serve them but will also be useful to other scientists.

CRC Press
March 2023 : 268pp
Pb: 978-1-032-03320-4 : **£45.99**
Hb: 978-1-032-03318-1 : **£120**
eBook: 978-1-003-18674-8

* For full contents and more information, visit: www.routledge.com/9781032033204

Basic Chemistry Concepts and Exercises



John Kenkel Emeritus, Southeast Community College, Lincoln, Nebraska, USA

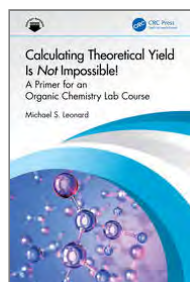
Bringing the wisdom of John Kenkel's more than 35 years of teaching experience, this volume communicates the fundamentals of chemistry in a practical, down-to-earth manner. Using conversational language and logically assembled graphics, the book concisely introduces each topic without overwhelming students with unnecessary detail. Example problems and end-of-chapter questions emphasize repetition of concepts, preparing students to become adept at the basics before they progress to an advanced general chemistry course. Enhanced with visualization techniques such as the first chapter's mythical microscope as well as interactive online homework exercises, the book clarifies challenging, abstract ideas and stimulates curiosity into what can otherwise be an overwhelming topic.

CRC Press
October 2010 : 472pp
Pb: 978-1-439-81337-9 : **£61.99**
Hb: 978-1-138-40253-9 : **£190**
eBook: 978-0-429-11165-5

* For full contents and more information, visit: www.routledge.com/9781439813379

Calculating Theoretical Yield Is Not Impossible!

A Primer for an Organic Chemistry Lab Course



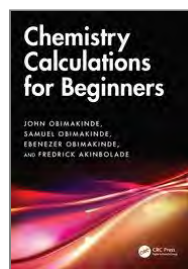
Michael S. Leonard

Calculating theoretical and percent yield is a fundamental skill for the laboratory. This book primarily targets Organic Chemistry Laboratory courses at the high school or college and university level, as a supplemental resource to help students master this skill. It begins with simple examples from everyday life, demonstrates the importance of balancing the equation, addresses the role of the mole in these computations, discusses different types of liquids, considers the role of significant figures, and culminates with the planning of syntheses. There are suggestions for further reading as well as practice problems and questions to ensure mastery.

CRC Press
February 2025 : 104pp
Pb: 978-1-032-95971-9 : **£49.99**
Hb: 978-1-032-95972-6 : **£91.99**
eBook: 978-1-003-58740-8

* For full contents and more information, visit: www.routledge.com/9781032959719

Chemistry Calculations for Beginners



John Obimakinde Greenland Hall, Lagos, Nigeria, **Samuel Obimakinde** Destin Kids Academy, Cape Town, South Africa, **Ebenezer Obimakinde** Federal University of Technology, Akure, Nigeria, **Fredrick Akinbolade** Greenland Hall Educational Services, Nigeria

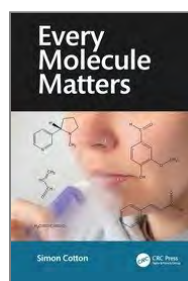
This text is crafted to provide a clear and accessible pathway to overcoming this challenge by assisting students, especially novices or those with minimal knowledge of the subject, in performing chemistry calculations. The content covers fundamental calculations crucial to understanding the principles of chemistry, making it an invaluable tool for students aiming to excel in their studies.

CRC Press
May 2025 : 430pp
Pb: 978-1-032-85414-4 : **£64.99**
Hb: 978-1-032-85415-1 : **£160**
eBook: 978-1-003-51805-1

* For full contents and more information, visit: www.routledge.com/9781032854144

2ND EDITION

Every Molecule Tells a Story



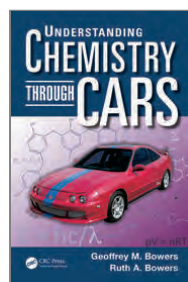
Simon Anthony Cotton University of Birmingham, UK

This latest edition continues the celebration of molecules responsible for the experiences of everyday life such as the air we breathe, the water we drink, the chemicals that fuel our living. It presents new sections, notably the chemistry of molecules in food, including spices; vitamins; molecules with unpleasant smells (which seem to interest many people!); organic halogen compounds, substances which have an undesired reputation. It also covers developments such as the chemistry of drugs; drugs of abuse, for example opioid painkillers. Based on the highly successful first edition, this book brushes away any preconceived notions about chemistry to demonstrate its importance.

CRC Press
March 2026 : 300pp
Pb: 978-1-032-61624-7 : **£49.99**
Hb: 978-1-032-61552-3 : **£91.99**

* For full contents and more information, visit: www.routledge.com/9781032616247

Understanding Chemistry through Cars



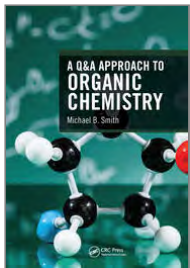
Geoffrey M. Bowers, Ruth A. Bowers

There is almost nothing in a car that cannot be described from a chemical perspective, thereby making cars an untapped pedagogical resource for the study of chemistry. This book is suitable as an introductory course or capstone project and provides a thorough, although not exhaustive, presentation of chemistry in relation to cars. Topics include the ideal gas law, materials chemistry, thermochemistry, solution chemistry, mass transport, polymerization, light/matter interactions, and oxidation/reduction. A Twitter account and a blog allow readers to interact directly with authors and other experts.

CRC Press
November 2014 : 261pp
Pb: 978-1-466-57183-9 : **£49.99**
Hb: 978-1-138-41026-8 : **£190**
eBook: 978-0-429-10182-3

* For full contents and more information, visit: www.routledge.com/9781466571839

A Q&A Approach to Organic Chemistry



Michael B. Smith

A Q&A Approach to Organic Chemistry begins with atomic orbitals and bonding. All critical topics are covered, including bonding, nomenclature, stereochemistry, conformations, acids and bases, oxidations, reductions, substitution, elimination, acyl addition, acyl substitution, enolate anion reactions, the Diels-Alder reaction and sigmatropic rearrangements, aromatic chemistry, spectroscopy, amino acids and proteins, carbohydrates and nucleosides. All major reactions are covered. This edition has been completely revised and updated by the author, and each chapter includes end-of-chapter homework questions with the answer keys in an Appendix.

CRC Press

February 2022 : 358pp

Pb: 978-1-032-24068-8 : £47.99

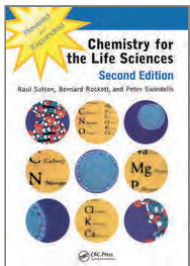
Hb: 978-0-367-22427-1 : £150

eBook: 978-0-429-27484-8

* For full contents and more information, visit: www.routledge.com/9781032240688

2ND EDITION

Chemistry for the Life Sciences



Raul Sutton University of Wolverhampton, UK, **Bernard Rockett** Formerly of University of Wolverhampton, UK, **Peter G. Swindells**

Series: Lifelines Series

Retaining the user-friendly style that made the original popular, this updated edition continues to provide a grounding in the aspects of chemistry that developing life scientists need to understand biochemical and biomedical research. This edition adds new chapters, including one on water, covering the mole concept and colloids; another on gases, discussing pressure, solubility, and diffusion; and still another chapter on metals, covering properties, carriers, biocatalysis, and toxicity. Each topic is clearly tied to numerical considerations and core concepts. Critical information is reinforced through worked examples and questions. A solutions manual is available for qualifying instructors.

CRC Press

November 2008 : 280pp

Pb: 978-1-420-06935-8 : £49.99

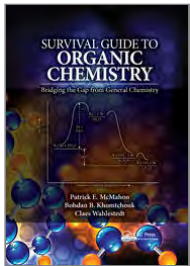
Hb: 978-1-138-40689-6 : £190

eBook: 978-0-429-14061-7

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Survival Guide to Organic Chemistry

Bridging the Gap from General Chemistry



Patrick E. McMahon , Bohdan B. Khomtchouk , Claes Wahlestedt

The Survival Guide to Organic Chemistry: Bridging the Gap from General Chemistry enables organic chemistry students to bridge the gap between general chemistry and organic chemistry. It makes sense of the myriad of in-depth concepts of organic chemistry, without overwhelming them in the necessary detail often given in a complete organic chemistry text. Here, the topics covered span the entire standard organic chemistry curriculum. The authors describe subjects which require further explanation, offer alternate viewpoints for understanding and provide hands-on practical problems and solutions to help master the material. This text ultimately allows students to a

CRC Press

July 2022 : 676pp

Pb: 978-1-032-33979-5 : £47.99

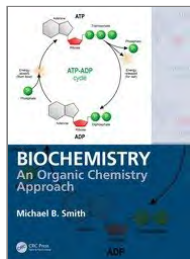
Hb: 978-1-498-77707-0 : £145

eBook: 978-1-315-38018-6

* For full contents and more information, visit: www.routledge.com/9781032339795

Biochemistry

An Organic Chemistry Approach



Michael B. Smith University of Connecticut, Storrs, USA

Biochemistry: An Organic Chemistry Approach provides a framework for understanding various topics of biochemistry, including the chemical behavior of biomolecules, enzyme activity, and more. It goes beyond mere memorization. Using several techniques to develop a relational understanding, including homework, this text helps students fully grasp and better correlate the essential organic chemistry concepts with those concepts at the root of biochemistry. The goal is to better understand the fundamental principles of biochemistry.

CRC Press

May 2020 : 398pp

Pb: 978-0-815-36645-4 : **£115**

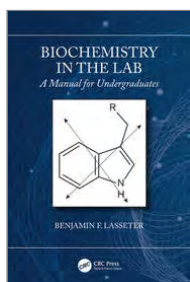
Hb: 978-0-815-36713-0 : **£230**

eBook: 978-1-351-25808-1

* For full contents and more information, visit: www.routledge.com/9780815366454

Biochemistry in the Lab

A Manual for Undergraduates



Benjamin F. Lasseter Christopher Newport University, VA, USA

Biochemistry in the Lab: A Manual for Undergraduates presents a comprehensive approach to modern biochemistry laboratory teaching together with a complete experimental experience, from molecular biology, cloning, and protein expression, to purification and characterization.

CRC Press

October 2019 : 202pp

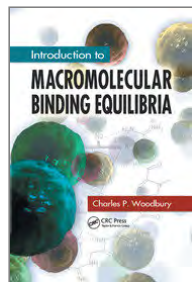
Pb: 978-1-138-58996-4 : **£51.99**

Hb: 978-1-138-58992-6 : **£145**

eBook: 978-0-429-49126-9

* For full contents and more information, visit: www.routledge.com/9781138589964

Introduction to Macromolecular Binding Equilibria



Charles P. Woodbury

This compact, graduate-level text focuses on a key area of biophysical chemistry. Introduction to Macromolecular Binding Equilibria first describes the features of binding sites for small molecules and then presents a discussion of the formulation of binding isotherms for simple mathematical models. The book addresses special problems in describing isotherms for linear polymers and examines the complications of binding cooperativity and thermodynamic linkage interactions among multiple ligands. It highlights important aspects of experimental designs, key aspects of ligand binding to planar arrays of sites, and methods for model-free analysis data used to reveal the binding isotherm.

CRC Press

September 2019 : 272pp

Pb: 978-0-367-38832-4 : **£63.99**

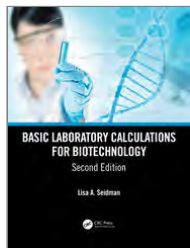
Hb: 978-1-420-05298-5 : **£180**

eBook: 978-0-429-14054-9

* For full contents and more information, visit: www.routledge.com/9780367388324

2ND EDITION

Basic Laboratory Calculations for Biotechnology



Lisa A. Seidman Madison College, WI, USA

To succeed in the lab, it is crucial to be comfortable with the math calculations that are part of everyday work. This accessible introduction to common laboratory techniques focuses on the basics, helping even readers with good math skills to practice the most frequently encountered types of problems. Discusses very common laboratory problems, all applied to real situations. Explores multiple strategies for solving problems for a better understanding of the underlying math. Includes hundreds of practice problems, all with solutions and many with boxed, complete explanations; plus hundreds of "story problems" relating to real situations in the lab.

CRC Press

December 2021 : 578pp

Pb: 978-0-367-24480-4 : **£71.99**

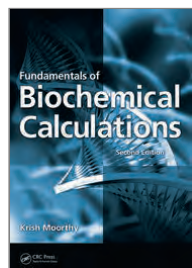
Hb: 978-0-367-24485-9 : **£145**

eBook: 978-0-429-28274-4

* For full contents and more information, visit: www.routledge.com/9780367244804

2ND EDITION

Fundamentals of Biochemical Calculations



Krish Moorthy Formerly of RMIT University, Melbourne, Australia

Drawing attention to the widely applicable Ratio method for performing biochemical calculations, this fully updated text encourages scientists to learn, rather than memorize, the processes involved by developing their mathematical logic and problem solving skills. The book's user-friendly style requires no advanced knowledge of mathematics. Featuring new solved problems, useful comments, and mathematical hints, this edition also introduces three new chapters on calculations related to experimental biochemistry, molecular biology, and pharmacy. It also includes a supplementary CD with additional questions and answers.

CRC Press

November 2007 : 192pp

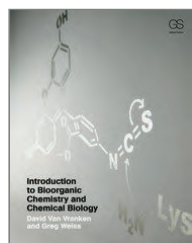
Pb: 978-1-420-05357-9 : **£49.99**

Hb: 978-1-138-40702-2 : **£190**

eBook: 978-0-429-14218-5

* For full contents and more information, visit: www.routledge.com/9781420053579

Introduction to Bioorganic Chemistry and Chemical Biology



David Van Vranken , GREGORY A WEISS

This textbook uniquely blends the modern tools of organic chemistry with concepts of biology, physiology, and medicine. With a focus on human cell biology and using a problems-driven approach, the text explains the combinatorial architecture of biooligomers (genes, DNA, RNA, proteins, glycans, lipids, and terpenes) as the molecular engine for life. Accentuated by descriptions of mechanistic arrow pushing and rich illustrations, organic chemistry is used to illuminate the central dogma of molecular biology. The text contains more than 300 problems to test assimilation or the material.

Garland Science

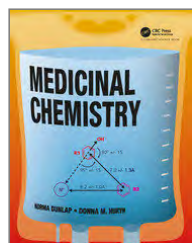
November 2012 : 504pp

Pb: 978-0-815-34214-4 : **£79.99**

eBook: 978-0-203-38109-0

* For full contents and more information, visit: www.routledge.com/9780815342144

Medicinal Chemistry



Norma K Dunlap Middle Tennessee State University, USA, **Donna M Huryn** University of Pennsylvania and University of Pittsburgh, USA

Medicinal Chemistry teaches the essential concepts of medicinal chemistry from the perspective of practicing.

Garland Science

April 2018 : 508pp

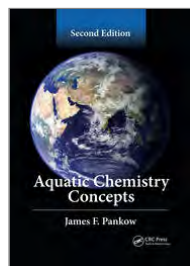
Pb: 978-0-815-34556-5 : **£110**

eBook: 978-1-315-10047-0

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2ND EDITION

Aquatic Chemistry Concepts, Second Edition



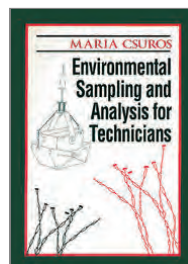
James F. Pankow

Aquatic Chemistry Concepts, Second Edition. Fully revised and updated, this textbook fills the need for a comprehensive treatment of aquatic chemistry and covers the many complicated equations and principles of aquatic chemistry. It presents the established science of equilibrium water chemistry using the uniquely recognizable, step-by-step Pankow format which allows a broad and deep understanding aquatic chemistry. The text is appropriate for a wide audience that includes undergraduate and graduate students, industry professionals, consultants, and regulators.

CRC Press
June 2022 : 582pp
Pb: 978-1-032-33773-9 : **£47.99**
Hb: 978-1-439-85440-2 : **£130**
eBook: 978-0-429-19886-1

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Environmental Sampling and Analysis for Technicians



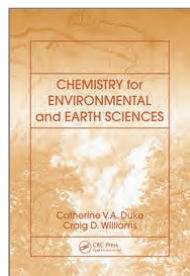
Maria Csuros University of Pecs, Hungary

This book provides the basic knowledge in sample collection, field and laboratory quality assurance/quality control (QA/QC), sample custody, regulations and standards of environmental pollutants. The text covers sample collection, preservation, handling, detailed field activities, and sample custody. It provides an overview of the occurrence, source, and fate of toxic pollutants, as well as their control by regulations and standards. Environmental Sampling and Analysis for Technicians is an excellent introductory text for laboratory training classes, namely those teaching inorganic nonmetals, metals, and trace organic pollutants and their detection in environmental samples.

CRC Press
September 1994 : 332pp
Pb: 978-0-873-71835-6 : **£110**
Hb: 978-1-138-42440-1 : **£190**
eBook: 978-0-203-75686-7

* For full contents and more information, visit: www.routledge.com/9780873718356

Chemistry for Environmental and Earth Sciences



Catherine Vanessa Anne Duke University of Wolverhampton, UK, **Craig Denver Williams** University of Wolverhampton, UK

Chemistry for Environmental and Earth Sciences focuses on the chemistry and processes behind environmental issues such as global warming, ozone depletion, acid rain, water pollution, and soil contamination. Accessible to science as well as non-science majors, this textbook is divided into four intuitive chapters: Fire, Earth, Water, and Air. It uses worked examples and case studies drawn from current applications along with clear diagrams and concise explanations to illustrate the relevance of chemistry to geosciences. In-text and end-of-chapter questions with complete solutions also help students gain confidence in applying concepts from this book towards solving current, real-world problems.

CRC Press
October 2007 : 244pp
Pb: 978-0-849-33934-9 : **£74.99**
Hb: 978-1-138-42435-7 : **£190**
eBook: 978-0-429-12767-0

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2ND EDITION

Environmental Science and Technology

A Sustainable Approach to Green Science and Technology, Second Edition



Stanley E. Manahan

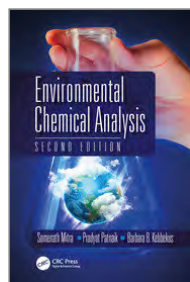
Written by a leading expert, Environmental Science and Technology: A Sustainable Approach to Green Science and Technology, Second Edition provides a general overview of green science and technology and their essential role in ensuring environmental sustainability. This book addresses the roles of the hydrosphere, atmosphere, geosphere, and biosphere on the environment. It also considers the anthroposphere as a distinct environmental sphere. Presented in a consistent and accessible style, this text is suitable for students in environmental science and engineering, environmental scientists, ecologists, environmental policy experts, as well as those with little or no science background.

CRC Press
October 2019 : 647pp
Pb: 978-0-367-39012-9 : **£63.99**
Hb: 978-0-849-39512-3 : **£180**
eBook: 978-0-429-12466-2

* For full contents and more information, visit: www.routledge.com/9780367390129

2ND EDITION

Environmental Chemical Analysis



S. Mitra New Jersey Institute of Technology, Newark, USA, **B.B. Kebbekus** New Jersey Institute of Technology, Newark, USA

Environmental Chemical Analysis provides an explanation of analytical instrumentation methods for students without a background in analytical chemistry. This second edition features expanded material on sample preparation and quality assurance and control. It also includes new chapters on biological analysis and analysis of environmental particulates. It brings together sampling, sample preparation, and analytical techniques necessary for environmental applications, demonstrated through case studies of actual environmental measurement protocols.

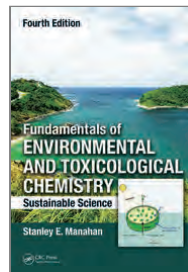
CRC Press
August 2018 : 449pp
Pb: 978-0-849-33838-0 : **£74.99**
Hb: 978-1-138-60409-4 : **£220**
eBook: 978-0-429-45820-0

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4TH EDITION

Fundamentals of Environmental and Toxicological Chemistry

Sustainable Science, Fourth Edition



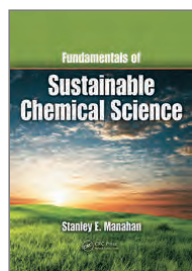
Stanley E. Manahan University of Missouri, Department of Chemistry, Columbia, USA

This book covers university-level environmental chemistry, with toxicological chemistry integrated throughout the content. This new edition of a bestseller provides an updated text with an increased emphasis on sustainability and green chemistry. Organized based on the five spheres of Earth's environment—the hydrosphere, atmosphere, geosphere, biosphere, and anthroposphere—the book presents discussions of each sphere based upon the nature, pollution, and sustainability of the sphere. For readers needing additional basic chemistry background, the book includes two chapters on general chemistry and organic chemistry.

CRC Press
February 2013 : 614pp
Hb: 978-1-466-55316-3 : **£115**
eBook: 978-0-429-09774-4

* For full contents and more information, visit: www.routledge.com/9781466553163

Fundamentals of Sustainable Chemical Science



Stanley E. Manahan University of Missouri, Department of Chemistry, Columbia, USA

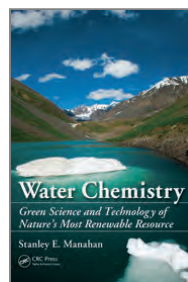
Assuming no prior background, this book presents the basics of general chemistry, organic chemistry, and biochemistry. The first chapter provides a brief mini-course in chemistry, defining key terms that are required for understanding materials presented in the rest of the text. It develops chemistry as it would be a language with its key parts. The author begins with a discussion of atoms and elements, moves to a description of chemical compounds made from those elements, and concludes with a look at chemical reactions involving elements and compounds. The chapters also include references to renewable resources, energy, and offer an emphasis on green chemistry in support of learned concepts.

CRC Press
March 2009: 392pp
Pb: 978-1-439-80239-7 : £89.99
Hb: 978-1-138-42436-4 : £190
eBook: 978-0-429-11210-2

* For full contents and more information, visit: www.routledge.com/9781439802397

Water Chemistry

Green Science and Technology of Nature's Most Renewable Resource



Stanley E. Manahan University of Missouri, Department of Chemistry, Columbia, USA

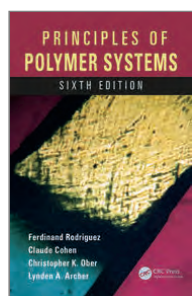
A unique approach to the chemistry of water, this textbook by top environmental author Stanley Manahan focuses on water as a renewable resource from a green chemistry and sustainability perspective. An appropriate text for current affairs in environmental chemistry written at an intermediate level, this text is devoted to the hydrosphere and explains how it relates to the other four environmental spheres. It contains chapters on basic chemistry and organic chemistry useful to those readers whose fundamental knowledge of chemistry is limited and includes coverage of, pollution, wastewater, and water treatment. A solutions manual is available with qualifying course adoption.

CRC Press
August 2010: 416pp
Pb: 978-1-439-83068-0 : £110
Hb: 978-1-138-47527-4 : £190
eBook: 978-0-429-10972-0

* For full contents and more information, visit: www.routledge.com/9781439830680

6TH EDITION

Principles of Polymer Systems



Ferdinand Rodriguez Cornell University, Ithaca, New York, USA, **Claude Cohen** Cornell University, Ithaca, New York, USA, **Christopher K. Ober** Cornell University, Ithaca, New York, USA, **Lynden Archer** Cornell University, Ithaca, New York, USA

A classic text in the field of chemical engineering, this revised sixth edition offers a comprehensive exploration of polymers at a level geared toward upper-level undergraduates and beginning graduate students. It contains more theoretical background for some of the fundamental concepts pertaining to polymer structure and behavior, while also providing an up-to-date discussion of the latest developments in polymerization systems. New problems have been added to several of the chapters, and a solutions manual is available upon qualifying course adoption.

CRC Press
December 2014: 810pp
Hb: 978-1-482-22378-1 : £145
eBook: 978-0-429-17229-8

* For full contents and more information, visit: www.routledge.com/9781482223781

4TH EDITION

Transport Phenomena Fundamentals



Joel L. Plawsky Rensselaer Polytechnic Institute, Troy, New York, USA

Series: Chemical Industries

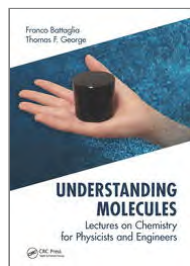
The Fourth edition of Transport Phenomena Fundamentals continues with its streamlined approach to the subject of transport phenomena, based on a unified treatment of heat, mass, and momentum transport using a balance equation approach. The new edition includes more worked examples within each chapter and adds confidence building problems at the end of each chapter. Some solutions will be included in an appendix for students to check their comprehension of key concepts. A companion website will include author videos and COMSOL®, Maple®, and MATLAB® exercises. This edition also incorporates a wider range of problems to expand the utility of the text beyond chemical engineering.

CRC Press
March 2020: 862pp
Hb: 978-1-138-08056-0 : £145
eBook: 978-1-315-11338-8

* For full contents and more information, visit: www.routledge.com/9781138080560

Understanding Molecules

Lectures on Chemistry for Physicists and Engineers



Franco Battaglia , Thomas F. George

Chemistry is a subject that many students with differing goals have to tackle. This unique general chemistry textbook is tailored to more mathematically-oriented engineering or physics students. The authors emphasize the principles underlying chemistry rather than chemistry itself and the almost encyclopedic completeness appearing in a common textbook of general chemistry is sacrificed for an emphasis to these principles. Contained within 500 pages, it is suitable for a one-semester course for students who are strong in physics and mathematics. Over 200 problems are provided to ensure understanding, and answers are provided in the text so that the students can check their progress.

CRC Press

December 2021 : 322pp

Pb: 978-1-032-24168-5 : **£47.99**

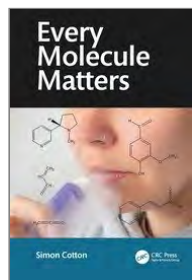
Hb: 978-1-138-32930-0 : **£145**

eBook: 978-0-429-44826-3

* For **full contents** and more information, visit: www.routledge.com/9781032241685

2ND EDITION

Every Molecule Tells a Story



Simon Anthony Cotton University of Birmingham, UK

This latest edition continues the celebration of molecules responsible for the experiences of everyday life such as the air we breathe, the water we drink, the chemicals that fuel our living. It presents new sections, notably the chemistry of molecules in food, including spices; vitamins; molecules with unpleasant smells (which seem to interest many people!); organic halogen compounds, substances which have an undeserved reputation. It also covers developments such as the chemistry of drugs; drugs of abuse, for example opioid painkillers. Based on the highly successful first edition, this book brushes away any preconceived notions about chemistry to demonstrate its importance.

CRC Press

March 2026 : 300pp

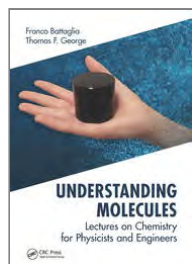
Pb: 978-1-032-61624-7 : **£49.99**

Hb: 978-1-032-61552-3 : **£91.99**

* For full contents and more information, visit: www.routledge.com/9781032616247

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CRC Press

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Pb: 978-1-032-24168-5 : **£47.99**

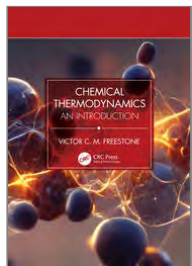
Hb: 978-1-138-32930-0 : **£145**

eBook: 978-0-429-44826-3

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Chemical Thermodynamics

An Introduction



Victor CM Freestone

Thermodynamics can never be made easy, but with the right approach and a consistent use of scientific terms it can be made less opaque, and it can give a person an insight into how science explains why things happen the way they do. The approach adopted in this book will give readers a better understanding of how science works together with its limitations. Thermodynamics is a subject which (apart from quantum mechanics) probably causes most confusion and bewilderment amongst scientists. No one can pretend that the subject is easy, but it can be made accessible by a rigorous definition of concepts and ensuring that a consistency of use of these definitions is maintained.

CRC Press

June 2025 : 348pp

Pb: 978-1-041-00153-9 : **£110**

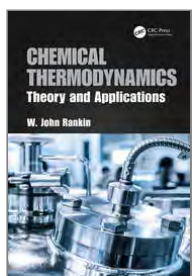
Hb: 978-1-041-00154-6 : **£270**

eBook: 978-1-003-60840-0

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Chemical Thermodynamics

Theory and Applications



W.J. Rankin

This book develops the theory of chemical thermodynamics from first principles, demonstrates its relevance across scientific and engineering disciplines, and shows how thermodynamics can be used as a practical tool for understanding natural phenomenon and developing and improving technologies and products. The book provides the necessary foundations for the intelligent use of thermodynamic software packages. Another unique aspect is the inclusion of three applications chapters: heat and energy aspects of processing; the thermodynamics of metal production and recycling; and applications of electrochemistry.

CRC Press

November 2019 : 344pp

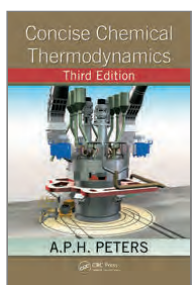
Hb: 978-0-367-22247-5 : **£115**

eBook: 978-0-429-27725-2

* For full contents and more information, visit: www.routledge.com/9780367222475

3RD EDITION

Concise Chemical Thermodynamics



A.P.H. Peters Hogeschool Zuyd, Heerlen, The Netherlands

This volume offers a practical, example-based exploration of a critical topic. It discusses the world's current energy consumption and the role of renewable energy, examines exothermic reactions, uses Mathcad® to calculate a plot of Gibbs energy, explains the Lambda sensor, and employs FactSage software to calculate and describe the production of silicon in an arc (oven) furnace. It also re-works problems that have proven to be the most difficult and adds several new ones to amplify complex areas.

CRC Press

July 2010 : 236pp

Pb: 978-1-439-81332-4 : **£47.99**

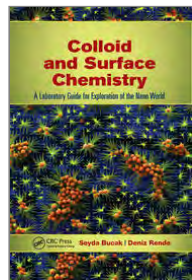
Hb: 978-1-138-47345-4 : **£190**

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* For full contents and more information, visit: www.routledge.com/9781439813324

Colloid and Surface Chemistry

A Laboratory Guide for Exploration of the Nano World



Seyda Bucak, Deniz Rende

Colloid and interface science has become a truly interdisciplinary subject, integrating chemistry, physics, and biology. This laboratory book is designed to help students understand the basic principles of colloid and interface science through experiments underlining the fundamental principles. It includes techniques for the preparation of nanoparticles as well as everyday applications of colloid science. It is aimed at undergraduate students or graduate students without prior background in the field. Principles and laboratory techniques are learned via experiments as fundamental research tools and applications are seamlessly integrated with theory.

CRC Press

June 2019 : 278pp

Pb: 978-0-367-37901-8 : **£63.99**

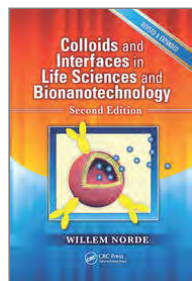
Hb: 978-1-466-55310-1 : **£180**

eBook: 978-0-429-09732-4

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2ND EDITION

Colloids and Interfaces in Life Sciences and Bionanotechnology



Willem Norde Wageningen University, The Netherlands, and University Medical Center Groningen, The Netherlands

This classroom reference presents a concise introductory treatment of the physicochemical principles that determine interrelated colloidal and interfacial phenomena and their relevance to various life sciences. The book focuses on concepts that form the basis for understanding this behavior. Whether deciphering the spontaneous assembly of amphiphilic molecules or the intentional fouling of surfaces for the immobilization of cells in bioreactors, *Colloids and Interfaces in Life Sciences* devotes special attention to reversible and soft colloids, and discusses the colloidal domain in a historical perspective, the size and distribution of particles, and electrokinetic phenomena, and more.

CRC Press

June 2011 : 496pp

Hb: 978-1-439-81718-6 : **£89.99**

eBook: 978-0-429-10793-1

* For full contents and more information, visit: www.routledge.com/9781439817186

3RD EDITION

Principles of Colloid and Surface Chemistry, Revised and Expanded



Edited by **Paul C. Hiemenz** Emeritus -Cal State Polytechnic University, Pomona, CA, **Raj Rajagopalan** Consultant, Singapore, The Republic of Singapore

This work aims to familiarize students with the fundamentals of colloid and surface science, from various types of colloids and colloidal phenomena, and classical and modern characterization/measurement techniques to applications of colloids and surface science in engineering, technology, chemistry, physics and biological and medical sciences. The *Journal of Textile Studies* proclaims "High praise from peers . . .contains valuable information on many topics of interest to food rheologists and polymer scientists . . .[The book] should be in the libraries of academic and industrial food research organizations" and *Chromatographia* describes the book as "...an excellent textbook, excellently organised, clearly written and well laid out."

CRC Press

March 1997 : 672pp

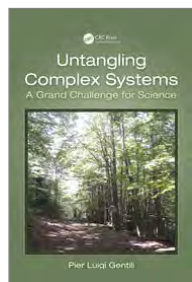
Hb: 978-0-824-79397-5 : **£74.99**

eBook: 978-1-315-27428-7

* For full contents and more information, visit: www.routledge.com/9780824793975

Untangling Complex Systems

A Grand Challenge for Science



Pier Luigi Gentili University of Perugia, Italy

This book presents the new challenges that the science of the twentieth century is facing. These new challenges consist in a deeper understanding of the properties of Complex, self-organized Systems and the ability of controlling them. A distinctive feature of this book is the description of Fuzzy Logic as a powerful method to understand and control complex systems. What makes this book unique is the demonstration of the different kinds of logic that can be processed by using molecules as computing elements.

CRC Press

January 2020 : 588pp

Pb: 978-0-367-48562-7 : **£63.99**

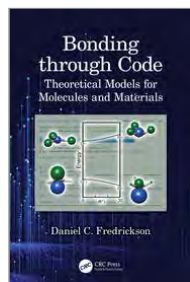
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Bonding through Code

Theoretical Models for Molecules and Materials



Daniel C. Fredrickson University of Wisconsin-Madison, USA

This timely and unique publication is designed for graduates and researchers in physical inorganic chemistry covering bonding models and applications of symmetry concepts to chemical systems. The book discusses the quantum mechanical basis for molecular orbital concepts, the connections between molecular orbitals and localized views of bonding, group theory, and bonding models for a variety of compounds. Unlike other books, the concepts are made tangible to the readers by guiding them through the implementation in Matlab functions. No background in Matlab or computer programming is needed and the book will provide the necessary skills.

CRC Press

August 2022 : 244pp

Pb: 978-0-367-54487-4 : **£41.99**

Hb: 978-1-498-76221-2 : **£130**

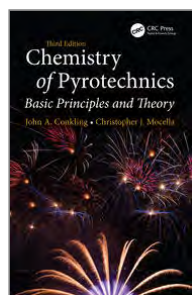
eBook: 978-0-429-15401-0

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3RD EDITION

Chemistry of Pyrotechnics

Basic Principles and Theory, Third Edition



Chris Mocella , John A. Conkling Chestertown,
Maryland, USA

This book provides chemists with technical insight on pyrotechnics and explosives. It emphasizes basic chemical principles and practical, hands-on knowledge in the preparation of energetic materials. It examines the interactions between and adaptations of pyrotechnics to changing technology in areas such as obscuration science and low-signature flame emission. The updated third edition discusses chemical and pyrotechnic principles, components of high-energy materials, elements of ignition, propagation, and sensitivity. It offers heat compositions, including ignition mixes, delays, thermites, and propellants and investigates the production of smoke and sound as well as light and color.

CRC Press

January 2019 : 316pp

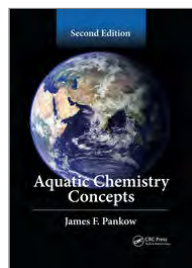
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James F. Pankow

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CRC Press

June 2022 : 582pp

Pb: 978-1-032-33773-9 : £47.99

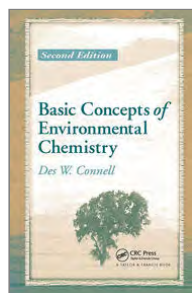
Hb: 978-1-439-85440-2 : £130

eBook: 978-0-429-19886-1

* For full contents and more information, visit: www.routledge.com/9781032337739

2ND EDITION

Basic Concepts of Environmental Chemistry



Des W. Connell Griffith University, Queensland, Australia

Incorporating advances made since the 1997 publication of the first edition, this book includes material on toxic metals, atmospheric pollution, radionuclides, acid drainage water, and risk assessment. It addresses topics such as polarity, partition behavior, fugacity, and solubility as well as the basic chemistry of compounds and processes in the environment. The author begins with coverage of the basic properties of chemicals in terms of polarity, water solubility, and vapor pressure, followed by chapters on environmental transformations and toxicity. Expanding on these fundamentals, he describes contaminants in the environment and pollution processes in the air, water and soil environments.

CRC Press

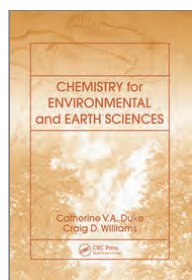
July 2005 : 480pp

Hb: 978-1-566-70676-6 : £110

eBook: 978-0-429-21601-5

* For full contents and more information, visit: www.routledge.com/9781566706766

Chemistry for Environmental and Earth Sciences



Catherine Vanessa Anne Duke University of Wolverhampton, UK, Craig Denver Williams University of Wolverhampton, UK

Chemistry for Environmental and Earth Sciences focuses on the chemistry and processes behind environmental issues such as global warming, ozone depletion, acid rain, water pollution, and soil contamination. Accessible to science as well as non-science majors, this textbook is divided into four intuitive chapters: Fire, Earth, Water, and Air. It uses worked examples and case studies drawn from current applications along with clear diagrams and concise explanations to illustrate the relevance of chemistry to geosciences. In-text and end-of-chapter questions with complete solutions also help students gain confidence in applying concepts from this book towards solving current, real-world problems.

CRC Press

October 2007 : 244pp

Pb: 978-0-849-33934-9 : £74.99

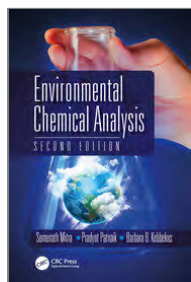
Hb: 978-1-138-42435-7 : £190

eBook: 978-0-429-12767-0

* For full contents and more information, visit: www.routledge.com/9780849339349

2ND EDITION

Environmental Chemical Analysis



S. Mitra New Jersey Institute of Technology, Newark, USA, B.B. Keckbekus New Jersey Institute of Technology, Newark, USA

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CRC Press

August 2018 : 449pp

Pb: 978-0-849-33838-0 : £74.99

Hb: 978-1-138-60409-4 : £220

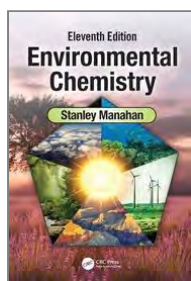
eBook: 978-0-429-45820-0

* For full contents and more information, visit: www.routledge.com/9780849338380

11TH EDITION

Environmental Chemistry

Eleventh Edition



Stanley E. Manahan University of Missouri, Department of Chemistry, Columbia, USA

With clear explanations, real-world examples and updated ancillary material, the 11th edition of Environmental Chemistry emphasizes the concepts essential to the practice of environmental science, technology and chemistry. The new edition provides a comprehensive view of key environmental issues, and significantly looks at diseases and pandemics as an environmental problem influenced by other environmental concerns like climate change.

CRC Press

December 2024 : 764pp

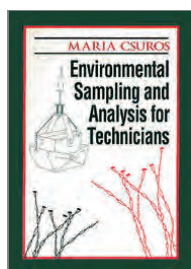
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Hb: 978-0-367-55887-1 : £89.99

eBook: 978-1-003-09623-8

* For full contents and more information, visit: www.routledge.com/9780367560546

Environmental Sampling and Analysis for Technicians



Maria Csuros University of Pecs, Hungary

This book provides the basic knowledge in sample collection, field and laboratory quality assurance/quality control (QA/QC), sample custody, regulations and standards of environmental pollutants. The text covers sample collection, preservation, handling, detailed field activities, and sample custody. It provides an overview of the occurrence, source, and fate of toxic pollutants, as well as their control by regulations and standards. Environmental Sampling and Analysis for Technicians is an excellent introductory text for laboratory training classes, namely those teaching inorganic nonmetals, metals, and trace organic pollutants and their detection in environmental samples.

CRC Press

September 1994 : 332pp

Pb: 978-0-873-71835-6 : £110

Hb: 978-1-138-42440-1 : £190

eBook: 978-0-203-75686-7

* For full contents and more information, visit: www.routledge.com/9780873718356

2ND EDITION

Environmental Science and Technology

A Sustainable Approach to Green Science and Technology, Second Edition

**Stanley E. Manahan**

Written by a leading expert, *Environmental Science and Technology: A Sustainable Approach to Green Science and Technology, Second Edition* provides a general overview of green science and technology and their essential role in ensuring environmental sustainability. This book addresses the roles of the hydrosphere, atmosphere, geosphere, and biosphere on the environment. It also considers the anthrosphere as a distinct environmental sphere. Presented in a consistent and accessible style, this text is suitable for students in environmental science and engineering, environmental scientists, ecologists, environmental policy experts, as well as those with little or no science background.

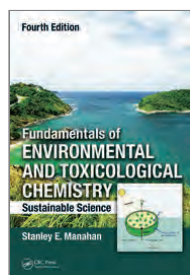
CRC Press
October 2019 : 647pp
Pb: 978-0-367-39012-9 : **£63.99**
Hb: 978-0-849-39512-3 : **£180**
eBook: 978-0-429-12466-2

* For full contents and more information, visit: www.routledge.com/9780367390129

4TH EDITION

Fundamentals of Environmental and Toxicological Chemistry

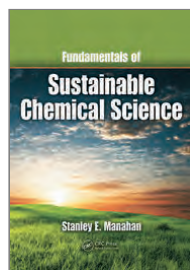
Sustainable Science, Fourth Edition

**Stanley E. Manahan** University of Missouri, Department of Chemistry, Columbia, USA

This book covers university-level environmental chemistry, with toxicological chemistry integrated throughout the content. This new edition of a bestseller provides an updated text with an increased emphasis on sustainability and green chemistry. Organized based on the five spheres of Earth's environment—the hydrosphere, atmosphere, geosphere, biosphere, and anthrosphere—the book presents discussions of each sphere based upon the nature, pollution, and sustainability of the sphere. For readers needing additional basic chemistry background, the book includes two chapters on general chemistry and organic chemistry.

CRC Press
February 2013 : 614pp
Hb: 978-1-466-55316-3 : **£115**
eBook: 978-0-429-09774-4

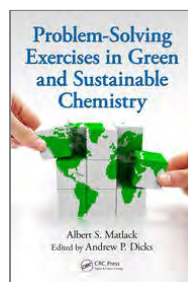
* For full contents and more information, visit: www.routledge.com/9781466553163

Fundamentals of Sustainable Chemical Science**Stanley E. Manahan** University of Missouri, Department of Chemistry, Columbia, USA

Assuming no prior background, this book presents the basics of general chemistry, organic chemistry, and biochemistry. The first chapter provides a brief mini-course in chemistry, defining key terms that are required for understanding materials presented in the rest of the text. It develops chemistry as it would a language with its key parts. The author begins with a discussion of atoms and elements, moves to a description of chemical compounds made from those elements, and concludes with a look at chemical reactions involving elements and compounds. The chapters also include references to renewable resources, energy, and offer an emphasis on green chemistry in support of learned concepts.

CRC Press
March 2009 : 392pp
Pb: 978-1-439-80239-7 : **£89.99**
Hb: 978-1-138-42436-4 : **£190**
eBook: 978-0-429-11210-2

* For full contents and more information, visit: www.routledge.com/9781439802397

Problem-Solving Exercises in Green and Sustainable Chemistry**Albert S. Matlack** University of Delaware, Newark, USA, **Andrew P. Dicks** University of Toronto, Ontario, Canada

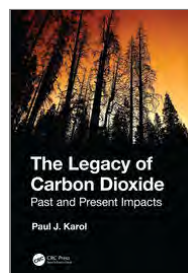
This book teaches students how to analyze and solve real-world problems that occur in green and sustainable chemistry. It describes situations based on events that have actually taken place and encourages creativity in finding solutions to problems that have multiple "correct" answers. The exercises and commentaries from the experienced author emphasize the reality that green chemistry is about making practical decisions and weighing multiple factors that are often conflicting, thus making it difficult or impossible to apply one perfect solution to a given problem.

CRC Press
October 2015 : 195pp
Pb: 978-1-482-25257-6 : **£39.99**
Hb: 978-1-138-41132-6 : **£190**
eBook: 978-0-429-15958-9

* For full contents and more information, visit: www.routledge.com/9781482252576

The Legacy of Carbon Dioxide

Past and Present Impacts

**Paul Karol** Carnegie Mellon University, Pittsburgh, USA

Covers the truly varied roles carbon dioxide has played and continues to play in the character of our planet. Chapters deal with the synthesis of CO₂ in stars, the evolution of the atmosphere over billions of years, the chemical and physical properties of CO₂ and how those influence common phenomena. How well this knowledge is understood and how it was determined, including existing uncertainties in our confidence and the stress from competing possibilities are discussed. Much of the technological jargon in various incorporated sciences has been modified to ease consumption by the non-expert.

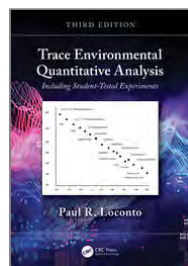
CRC Press
May 2019 : 253pp
Pb: 978-0-367-19080-4 : **£43.99**
Hb: 978-0-367-19134-4 : **£89.99**
eBook: 978-0-429-20064-9

* For full contents and more information, visit: www.routledge.com/9780367190804

3RD EDITION

Trace Environmental Quantitative Analysis

Including Student-Tested Experiments

**Paul R. Loconto** Michigan Department of Community Health, Lansing, USA

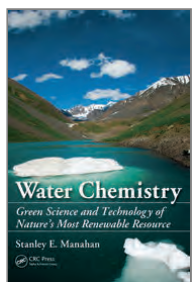
A thorough and timely update, this new edition presents principles, techniques and applications in this sub-discipline of analytical chemistry for quantifying traces of potentially toxic organic and inorganic chemical substances found in air, soil, fish and water as well as serum, plasma, urine, and other body fluids.

CRC Press
January 2024 : 766pp
Pb: 978-0-367-63106-2 : **£79.99**
Hb: 978-0-367-44533-1 : **£215**
eBook: 978-1-003-01060-9

* For full contents and more information, visit: www.routledge.com/9780367631062

Water Chemistry

Green Science and Technology of Nature's Most Renewable Resource



Stanley E. Manahan University of Missouri, Department of Chemistry, Columbia, USA

A unique approach to the chemistry of water, this textbook by top environmental author Stanley Manahan focuses on water as a renewable resource from a green chemistry and sustainability perspective. An appropriate text for current affairs in environmental chemistry written at an intermediate level, this text is devoted to the hydrosphere and explains how it relates to the other four environmental spheres. It contains chapters on basic chemistry and organic chemistry useful to those readers whose fundamental knowledge of chemistry is limited and includes coverage of, pollution, wastewater, and water treatment. A solutions manual is available with qualifying course adoption.

CRC Press

August 2010 : 416pp

Pb: 978-1-439-83068-0 : **£110**

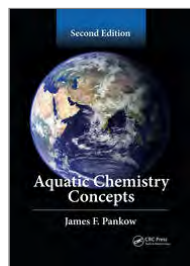
Hb: 978-1-138-47527-4 : **£190**

eBook: 978-0-429-10972-0

* For full contents and more information, visit: www.routledge.com/9781439830680

2ND EDITION

Aquatic Chemistry Concepts, Second Edition



James F. Pankow

Aquatic Chemistry Concepts, Second Edition. Fully revised and updated, this textbook fills the need for a comprehensive treatment of aquatic chemistry and covers the many complicated equations and principles of aquatic chemistry. It presents the established science of equilibrium water chemistry using the uniquely recognizable, step-by-step Pankow format which allows a broad and deep understanding aquatic chemistry. The text is appropriate for a wide audience that includes undergraduate and graduate students, industry professionals, consultants, and regulators.

CRC Press

June 2022 : 582pp

Pb: 978-1-032-33773-9 : **£47.99**

Hb: 978-1-439-85440-2 : **£130**

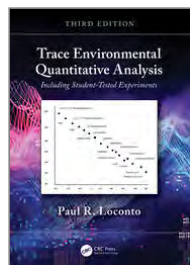
eBook: 978-0-429-19886-1

* For full contents and more information, visit: www.routledge.com/9781032337739

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Including Student-Tested Experiments



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CRC Press

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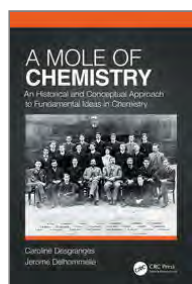
Hb: 978-0-367-44533-1 : **£215**

eBook: 978-1-003-01060-9

* For full contents and more information, visit: www.routledge.com/9780367631062

A Mole of Chemistry

An Historical and Conceptual Approach to Fundamental Ideas in Chemistry



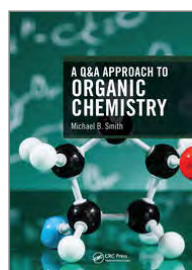
Caroline Desgranges Research Assistant Professor, UMass Lowell, USA, **Jerome Delhommelle** Associate Professor, UMass Lowell, USA

This book is intended for students in their undergraduate years who need to learn the basics of chemistry, including science and engineering as well as humanities. This is a companion textbook which provides a unique perspective on how the main scientific concepts describing nature were discovered and, eventually, how modern chemistry was born. The book makes use of context found in history, philosophy and the arts to better understand their developments, and without using mathematical equations. The focus is then set on scientific reasoning, making this book a great companion and addition to traditional chemistry textbooks.

CRC Press
March 2020 : 229pp
Pb: 978-0-367-20824-0 : **£89.99**
Hb: 978-0-367-20828-8 : **£220**
eBook: 978-0-429-26368-2

* For full contents and more information, visit: www.routledge.com/9780367208240

A Q&A Approach to Organic Chemistry



Michael B. Smith

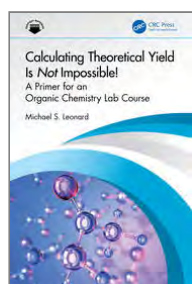
A Q&A Approach to Organic Chemistry begins with atomic orbitals and bonding. All critical topics are covered, including bonding, nomenclature, stereochemistry, conformations, acids and bases, oxidations, reductions, substitution, elimination, acyl addition, acyl substitution, enolate anion reactions, the Diels-Alder reaction and sigmatropic rearrangements, aromatic chemistry, spectroscopy, amino acids and proteins, carbohydrates and nucleosides. All major reactions are covered. This edition has been completely revised and updated by the author, and each chapter includes end-of-chapter homework questions with the answer keys in an Appendix.

CRC Press
February 2022 : 358pp
Pb: 978-1-032-24068-8 : **£47.99**
Hb: 978-0-367-22427-1 : **£150**
eBook: 978-0-429-27484-8

* For full contents and more information, visit: www.routledge.com/9781032240688

Calculating Theoretical Yield Is Not Impossible!

A Primer for an Organic Chemistry Lab Course



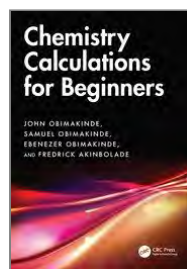
Michael S. Leonard

Calculating theoretical and percent yield is a fundamental skill for the laboratory. This book primarily targets Organic Chemistry Laboratory courses at the high school or college and university level, as a supplemental resource to help students master this skill. It begins with simple examples from everyday life, demonstrates the importance of balancing the equation, addresses the role of the mole in these computations, discusses different types of liquids, considers the role of significant figures, and culminates with the planning of syntheses. There are suggestions for further reading as well as practice problems and questions to ensure mastery.

CRC Press
February 2025 : 104pp
Pb: 978-1-032-95971-9 : **£49.99**
Hb: 978-1-032-95972-6 : **£91.99**
eBook: 978-1-003-58740-8

* For full contents and more information, visit: www.routledge.com/9781032959719

Chemistry Calculations for Beginners



John Obimakinde Greenland Hall, Lagos, Nigeria, **Samuel Obimakinde** Destin Kids Academy, Cape Town, South Africa, **Ebenezer Obimakinde** Federal University of Technology, Akure, Nigeria, **Fredrick Akinbolade** Greenland Hall Educational Services, Nigeria

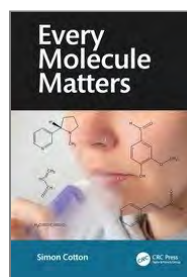
This text is crafted to provide a clear and accessible pathway to overcoming this challenge by assisting students, especially novices or those with minimal knowledge of the subject, in performing chemistry calculations. The content covers fundamental calculations crucial to understanding the principles of chemistry, making it an invaluable tool for students aiming to excel in their studies.

CRC Press
May 2025 : 430pp
Pb: 978-1-032-85414-4 : **£64.99**
Hb: 978-1-032-85415-1 : **£160**
eBook: 978-1-003-51805-1

* For full contents and more information, visit: www.routledge.com/9781032854144

2ND EDITION

Every Molecule Tells a Story



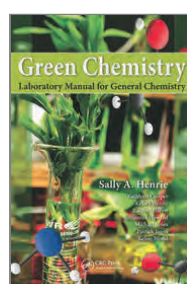
Simon Anthony Cotton University of Birmingham, UK

This latest edition continues the celebration of molecules responsible for the experiences of everyday life such as the air we breathe, the water we drink, the chemicals that fuel our living. It presents new sections, notably the chemistry of molecules in food, including spices; vitamins; molecules with unpleasant smells (which seem to interest many people!); organic halogen compounds, substances which have an undeserved reputation. It also covers developments such as the chemistry of drugs; drugs of abuse, for example opioid painkillers. Based on the highly successful first edition, this book brushes away any preconceived notions about chemistry to demonstrate its importance.

CRC Press
March 2026 : 300pp
Pb: 978-1-032-61624-7 : **£49.99**
Hb: 978-1-032-61552-3 : **£91.99**

* For full contents and more information, visit: www.routledge.com/9781032616247

Green Chemistry Laboratory Manual for General Chemistry



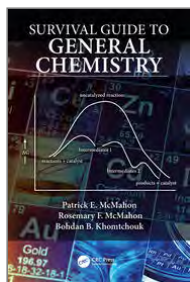
Sally A. Henrie Union University, Jackson, Tennessee, USA

Green chemistry involves designing novel ways to create and synthesize products and implement processes that will eliminate or greatly reduce negative environmental impacts. Providing educational laboratory materials that challenge students with the customary topics found in a general chemistry laboratory manual, this lab manual enables students to see how green chemistry principles can be applied to real-world issues. Following a consistent format, each lab experiment includes objectives, prelab questions, and detailed step-by-step procedures for performing the experiments. Additional questions encourage further research about how green chemistry principles compare with traditional, more hazardous experimental methods.

CRC Press
March 2015 : 384pp
Pb: 978-1-482-23020-8 : **£89.99**
Hb: 978-1-138-41024-4 : **£190**
eBook: 978-0-429-08968-8

* For full contents and more information, visit: www.routledge.com/9781482230208

Survival Guide to General Chemistry



Patrick E. McMahon Benedictine University, Organic Chemistry and General Chemistry, Lisle, Illinois, USA,
Rosemary McMahon, **Bohdan B. Khomtchouk**

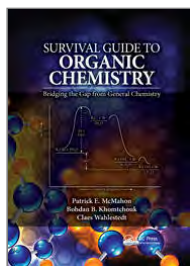
This work evolved over thirty combined years of teaching general chemistry to a variety of student demographics. The focus is not to recap or review the theoretical concepts well described in the available texts. Instead, the topics and descriptions in this book make available specific, detailed step-by-step methods and procedures for solving the major types of problems in general chemistry. Explanations, instructional process sequences, solved examples and completely solved practice problems are greatly expanded, containing significantly more detail than can usually be devoted to in a comprehensive text. Many chapters also provide alternative viewpoints as an aid to understanding.

CRC Press
February 2019 : 532pp
Pb: 978-1-138-33362-8 : **£115**
Hb: 978-1-138-33372-7 : **£325**
eBook: 978-0-429-44582-8

* For full contents and more information, visit: www.routledge.com/9781138333628

Survival Guide to Organic Chemistry

Bridging the Gap from General Chemistry



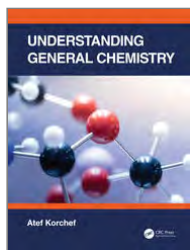
Patrick E. McMahon, **Bohdan B. Khomtchouk**, **Claes Wahlestedt**

The Survival Guide to Organic Chemistry: Bridging the Gap from General Chemistry enables organic chemistry students to bridge the gap between general chemistry and organic chemistry. It makes sense of the myriad of in-depth concepts of organic chemistry, without overwhelming them in the necessary detail often given in a complete organic chemistry text. Here, the topics covered span the entire standard organic chemistry curriculum. The authors describe subjects which require further explanation, offer alternate viewpoints for understanding and provide hands-on practical problems and solutions to help master the material. This text ultimately allows students to a

CRC Press
July 2022 : 676pp
Pb: 978-1-032-33979-5 : **£47.99**
Hb: 978-1-498-77707-0 : **£145**
eBook: 978-1-315-38018-6

* For full contents and more information, visit: www.routledge.com/9781032339795

Understanding General Chemistry



Atef Korchef King Khalid University, Abha, Kingdom of Saudi Arabia

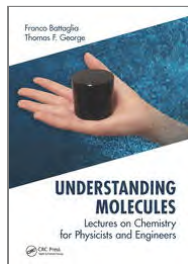
This introductory textbook details the fundamentals of general chemistry through a wide range of topics, relating the structure of atoms and molecules to the properties of matter, in an easy to understand format with helpful pedagogy to fuel learning through step-by-step worked exercises, main objectives at the beginning of every chapter, get smart and check your reading sections, chapter-ending summaries, and extensive end-of-chapter problems with the corresponding answers and explanations. Ideal for chemistry courses for non-science majors as well as health sciences and preparatory engineering students.

CRC Press
March 2022 : 280pp
Pb: 978-1-032-18914-7 : **£51.99**
Hb: 978-1-032-18940-6 : **£145**
eBook: 978-1-003-25705-9

* For full contents and more information, visit: www.routledge.com/9781032189147

Understanding Molecules

Lectures on Chemistry for Physicists and Engineers



Franco Battaglia, **Thomas F. George**

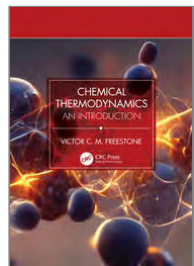
Chemistry is a subject that many students with differing goals have to tackle. This unique general chemistry textbook is tailored to more mathematically-oriented engineering or physics students. The authors emphasize the principles underlying chemistry rather than chemistry itself and the almost encyclopedic completeness appearing in a common textbook of general chemistry is sacrificed for an emphasis to these principles. Contained within 500 pages, it is suitable for a one-semester course for students who are strong in physics and mathematics. Over 200 problems are provided to ensure understanding, and answers are provided in the text so that the students can check their progress.

CRC Press
December 2021 : 322pp
Pb: 978-1-032-24168-5 : **£47.99**
Hb: 978-1-138-32930-0 : **£145**
eBook: 978-0-429-44826-3

* For full contents and more information, visit: www.routledge.com/9781032241685

Chemical Thermodynamics

An Introduction



Victor CM Freestone

Thermodynamics can never be made easy, but with the right approach and a consistent use of scientific terms it can be made less opaque, and it can give a person an insight into how science explains why things happen the way they do. The approach adopted in this book will give readers a better understanding of how science works together with its limitations. Thermodynamics is a subject which (apart from quantum mechanics) probably causes most confusion and bewilderment amongst scientists. No one can pretend that the subject is easy, but it can be made accessible by a rigorous definition of concepts and ensuring that a consistency of use of these definitions is maintained.

CRC Press

June 2025 : 348pp

Pb: 978-1-041-00153-9 : £110

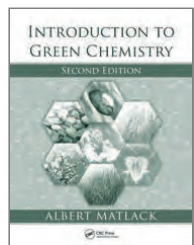
Hb: 978-1-041-00154-6 : £270

eBook: 978-1-003-60840-0

* For full contents and more information, visit: www.routledge.com/9781041001539

2ND EDITION

Introduction to Green Chemistry



Albert Matlack University of Delaware, Newark, USA

In the nearly 10 years since the publication of the bestselling first edition, interest in green chemistry and clean processes has increased. Designed to be a text and a reference, the second edition provides an update from the frontiers of green chemistry. Copiously illustrated with over 800 figures, the book takes a broad, interdisciplinary approach to the subject.

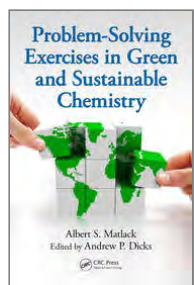
CRC Press

April 2010 : 600pp

Pb: 978-1-420-07811-4 : £100

* For full contents and more information, visit: www.routledge.com/9781420078114

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Andrew P. Dicks University of Toronto, Ontario, Canada

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CRC Press

October 2015 : 195pp

Pb: 978-1-482-25257-6 : £39.99

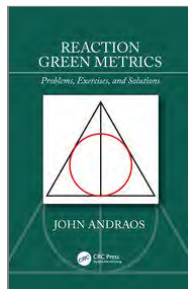
Hb: 978-1-138-41132-6 : £190

eBook: 978-0-429-15958-9

* For full contents and more information, visit: www.routledge.com/9781482252576

Reaction Green Metrics

Problems, Exercises, and Solutions



John Andraos CareerChem, Toronto, Ontario, Canada

This book contains a series of exercises and problems posed in the subject of green metrics. Essentially it is a "how to" book on evaluating the material efficiency, environmental impact, safety-hazard impact, and energy efficiency of any kind of chemical reaction or synthesis plan. Only the essential green metrics in each of these categories are used. The introduction highlights the hierarchy of metrics used throughout the book, explains the structure of how the book is arranged, how the problems are posed, and how the reader is to use the book. Examples refer to themes according to the headings given in the table of contents and are arranged in a hierarchical order.

CRC Press

December 2018 : 604pp

Pb: 978-1-138-38894-9 : £110

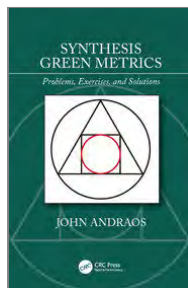
Hb: 978-1-138-38895-6 : £190

eBook: 978-0-429-42424-3

* For full contents and more information, visit: www.routledge.com/9781138388949

Synthesis Green Metrics

Problems, Exercises, and Solutions



John Andraos CareerChem, Toronto, Ontario, Canada

Green chemistry promotes improved syntheses as an intellectual endeavour that can have a great impact both on preserving and utilizing our planet's finite resources and the quality of human life. This masterful accomplishment provides an evaluation of environmental impact metrics according to life cycle assessment analysis based on the Mackay compartment environmental model and Guinée environmental impact potentials formalism. Assumptions, limitations, and dealing with missing data are addressed. Best literature resources for finding key toxicological parameters are provided and applied to individual reactions as well as entire synthesis plans, in order to target molecules of interest.

CRC Press

January 2019 : 526pp

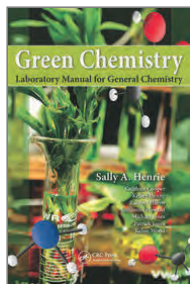
Pb: 978-0-367-00225-1 : £130

Hb: 978-0-367-00226-8 : £270

eBook: 978-0-429-40068-1

* For full contents and more information, visit: www.routledge.com/9780367002251

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CRC Press

March 2015 : 384pp

Pb: 978-1-482-23020-8 : **£89.99**

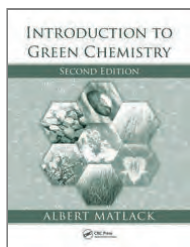
Hb: 978-1-138-41024-4 : **£190**

eBook: 978-0-429-08968-8

* For **full contents** and more information, visit: www.routledge.com/9781482230208

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Albert Matlack University of Delaware, Newark, USA

In the nearly 10 years since the publication of the bestselling first edition, interest in green chemistry and clean processes has increased. Designed to be a text and a reference, the second edition provides an update from the frontiers of green chemistry. Copiously illustrated with over 800 figures, the book takes a broad, interdisciplinary approach to the subject.

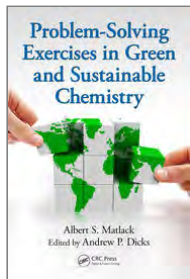
CRC Press

April 2010 : 600pp

Pb: 978-1-420-07811-4 : **£100**

* For **full contents** and more information, visit: www.routledge.com/9781420078114

Problem-Solving Exercises in Green and Sustainable Chemistry



Albert S. Matlack University of Delaware, Newark, USA,
Andrew P. Dicks University of Toronto, Ontario, Canada

This book teaches students how to analyze and solve real-world problems that occur in green and sustainable chemistry. It describes situations based on events that have actually taken place and encourages creativity in finding solutions to problems that have multiple "correct" answers. The exercises and commentaries from the experienced author emphasize the reality that green chemistry is about making practical decisions and weighing multiple factors that are often conflicting, thus making it difficult or impossible to apply one perfect solution to a given problem.

CRC Press

October 2015 : 195pp

Pb: 978-1-482-25257-6 : **£39.99**

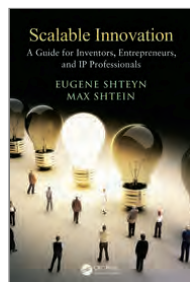
Hb: 978-1-138-41132-6 : **£190**

eBook: 978-0-429-15958-9

* For **full contents** and more information, visit: www.routledge.com/9781482252576

Scalable Innovation

A Guide for Inventors, Entrepreneurs, and IP Professionals



Eugene Shteyn Stanford University, California, USA, **Max Shtein** University of Michigan, Ann Arbor, USA

Based on recent advances in cognitive sciences, this book introduces a model for the innovation process, helping inventors, investors, and entrepreneurs to understand the nature and timing of opportunities and risks on the path to success. The authors apply systems thinking to discover real-life challenges, and provide tools for turning these challenges into opportunities for practical, scalable innovation. Using illustrative case studies, they analyze several landmark innovations in detail, revealing surprising and essential elements common to all of them.

CRC Press

June 2013 : 334pp

Pb: 978-1-466-59097-7 : **£49.99**

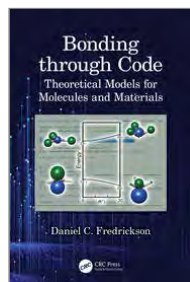
Hb: 978-1-138-43824-8 : **£190**

eBook: 978-0-429-16863-5

* For full contents and more information, visit: www.routledge.com/9781466590977

Bonding through Code

Theoretical Models for Molecules and Materials



Daniel C. Fredrickson University of Wisconsin-Madison, USA

This timely and unique publication is designed for graduates and researchers in physical inorganic chemistry covering bonding models and applications of symmetry concepts to chemical systems. The book discusses the quantum mechanical basis for molecular orbital concepts, the connections between molecular orbitals and localized views of bonding, group theory, and bonding models for a variety of compounds. Unlike other books, the concepts are made tangible to the readers by guiding them through the implementation in Matlab functions. No background in Matlab or computer programming is needed and the book will provide the necessary skills.

CRC Press

August 2022 : 244pp

Pb: 978-0-367-54487-4 : **£41.99**

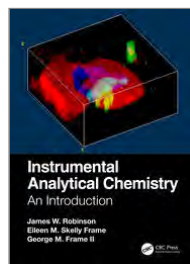
Hb: 978-1-498-76221-2 : **£130**

eBook: 978-0-429-15401-0

* For full contents and more information, visit: www.routledge.com/9780367544874

Instrumental Analytical Chemistry

An Introduction



James W. Robinson Louisiana State University, Baton Rouge, USA, **Eileen M. Skelly Frame**, **George M. Frame II** New York State Department of Health, Albany, USA

This book is written to teach undergraduate students and those with no analytical chemistry background how contemporary analytical instrumentation works, as well as its uses and limitations. Mathematics is kept to a minimum. No background in calculus, physics, or physical chemistry is required. The major fields of modern instrumentation are covered, including applications of each type of instrumental technique. This text uniquely combines instrumental analysis with organic spectral interpretation (IR, NMR, and MS). It provides detailed coverage of sampling, sample handling, sample storage, and sample preparation.

CRC Press

June 2021 : 920pp

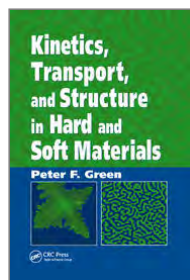
Hb: 978-1-138-19647-6 : **£94.99**

IEPB: 978-1-032-20582-3 : **£29.99**

eBook: 978-1-315-30115-0

* For full contents and more information, visit: www.routledge.com/9781138196476

Kinetics, Transport, and Structure in Hard and Soft Materials



Peter F. Green

Kinetics, Transport, and Structure in Hard and Soft Materials discusses the connection between the mechanisms of transport of atomic, or molecular entities that occur in a diverse range of materials, and structure. The text is divided into four parts. Part I discusses the fundamentals of diffusional transport (Tools), establishing the foundation for the discussions in Parts II and III on the mechanisms of transport in crystalline materials and in structurally disordered materials. Part IV analyzes phenomena such as spinodal decomposition, Mullins-Sekerka instabilities, and other types of instabilities that lead to morphological evolution facilitated by long-range collective motions of structural entities.

CRC Press

September 2019 : 372pp

Pb: 978-0-367-39297-0 : **£63.99**

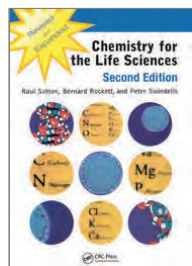
Hb: 978-1-574-44768-2 : **£89.99**

eBook: 978-0-429-11859-3

* For full contents and more information, visit: www.routledge.com/9780367392970

2ND EDITION

Chemistry for the Life Sciences



Raul Sutton University of Wolverhampton, UK, **Bernard Rockett** Formerly of University of Wolverhampton, UK, **Peter G. Swindells**

Series: Lifelines Series

Retaining the user-friendly style that made the original popular, this updated edition continues to provide a grounding in the aspects of chemistry that developing life scientists need to understand biochemical and biomedical research. This edition adds new chapters, including one on water, covering the mole concept and colloids; another on gases, discussing pressure, solubility, and diffusion; and still another chapter on metals, covering properties, carriers, biocatalysis, and toxicity. Each topic is clearly tied to numerical considerations and core concepts. Critical information is reinforced through worked examples and questions. A solutions manual is available for qualifying instructors.

CRC Press

November 2008 : 280pp

Pb: 978-1-420-06935-8 : **£49.99**

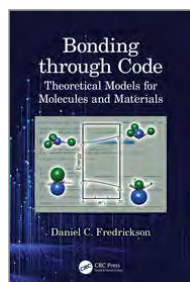
Hb: 978-1-138-40689-6 : **£190**

eBook: 978-0-429-14061-7

* For full contents and more information, visit: www.routledge.com/9781420069358

Bonding through Code

Theoretical Models for Molecules and Materials



Daniel C. Fredrickson University of Wisconsin-Madison, USA

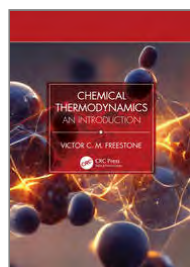
This timely and unique publication is designed for graduates and researchers in physical inorganic chemistry covering bonding models and applications of symmetry concepts to chemical systems. The book discusses the quantum mechanical basis for molecular orbital concepts, the connections between molecular orbitals and localized views of bonding, group theory, and bonding models for a variety of compounds. Unlike other books, the concepts are made tangible to the readers by guiding them through the implementation in Matlab functions. No background in Matlab or computer programming is needed and the book will provide the necessary skills.

CRC Press
August 2022 : 244pp
Pb: 978-0-367-54487-4 : **£41.99**
Hb: 978-1-498-76221-2 : **£130**
eBook: 978-0-429-15401-0

* For full contents and more information, visit: www.routledge.com/9780367544874

Chemical Thermodynamics

An Introduction



Victor CM Freestone

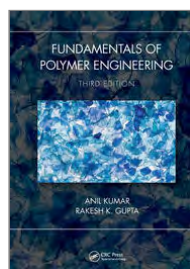
Thermodynamics can never be made easy, but with the right approach and a consistent use of scientific terms it can be made less opaque, and it can give a person an insight into how science explains why things happen the way they do. The approach adopted in this book will give readers a better understanding of how science works together with its limitations. Thermodynamics is a subject which (apart from quantum mechanics) probably causes most confusion and bewilderment amongst scientists. No one can pretend that the subject is easy, but it can be made accessible by a rigorous definition of concepts and ensuring that a consistency of use of these definitions is maintained.

CRC Press
June 2025 : 348pp
Pb: 978-1-041-00153-9 : **£110**
Hb: 978-1-041-00154-6 : **£270**
eBook: 978-1-003-60840-0

* For full contents and more information, visit: www.routledge.com/9781041001539

3RD EDITION

Fundamentals of Polymer Engineering, Third Edition



Anil Kumar , Rakesh K. Gupta

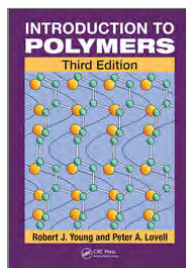
This textbook for a first course on polymers assumes some familiarity with thermodynamics and transport phenomena. It covers physical and chemical aspects and the concept of property being determined by structure. It discusses polymer synthesis, associated kinetics and molecular weights and uses this information for reactor design. It covers emulsion polymerization, polymer characterization and thermodynamics, and behavior of polymers as melts, solutions and solids. It examines crystallization, diffusion of and through polymers, polymer processing, and introduces new information on polyolefin technology, biobased plastics, and post-consumer plastic recycling. Chapters updated throughout.

CRC Press
December 2018 : 616pp
Hb: 978-1-498-75950-2 : **£110**
eBook: 978-0-429-39850-6

* For full contents and more information, visit: www.routledge.com/9781498759502

3RD EDITION

Introduction to Polymers



Robert J. Young University of Manchester, UK, **Peter A. Lovell** University of Manchester, UK

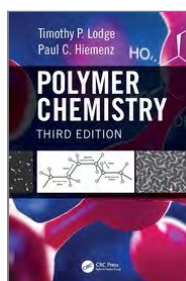
Thoroughly updated, this long-awaited new edition of a bestselling text provides extensive, detailed, and balanced coverage of polymer chemistry and polymer physics, spanning synthesis, characterization, bulk properties and morphology, and mechanical and electrical properties of polymers. The material has been completely reorganized and expanded to offer a coherent format for teaching and learning the fundamental aspects of contemporary polymer science. This edition incorporates the most important developments that have occurred in the past two decades, including "living" radical polymerization, supramolecular polymerization, and block and graft copolymer synthesis methods.

CRC Press
June 2011 : 688pp
Pb: 978-0-849-33929-5 : **£61.99**
Hb: 978-1-138-45957-1 : **£190**
eBook: 978-0-429-10948-5

* For full contents and more information, visit: www.routledge.com/9780849339295

3RD EDITION

Polymer Chemistry



Timothy P. Lodge University of Minnesota-Twin Cities, Minneapolis, USA, **Paul C. Hiemenz** Emeritus - Cal State Polytechnic University, Pomona, CA

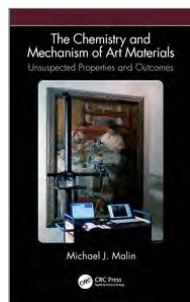
A well-rounded and articulate examination of polymer properties at the molecular level, this book focuses on fundamental principles based on underlying chemical structures, polymer synthesis, characterization, and properties. It emphasizes the logical progression of concepts and provide mathematical tools as needed, and fully derived problems for advanced calculations. This book expands and reorganizes material within chapters 2-5 to better develop polymer chemistry concepts and update the remaining chapters. New examples and problems will be added throughout.

CRC Press
July 2020 : 676pp
Hb: 978-1-466-58164-7 : **£89.99**
IEPB: 978-1-032-20585-4 : **£39.99**
eBook: 978-0-429-19081-0

* For full contents and more information, visit: www.routledge.com/9781466581647

The Chemistry and Mechanism of Art Materials

Unsuspected Properties and Outcomes



Michael J. Malin Western Connecticut State University, Chemistry Dept.

This unique book presents an integrated approach to the chemistry of art materials, exploring the many chemical processes involved. The author presents historical vignettes about artists' materials (inorganic pigments and organic solvents) that focus on relevant chemical mechanisms. The chemical mechanisms include chemical structures and stepwise transformation of starting materials to final products. The approach is descriptive and non-mathematical throughout, the level is suitable for readers that have taken a general and organic chemistry course.

CRC Press

December 2021 : 202pp

Pb: 978-0-367-51345-0 : **£63.99**

Hb: 978-0-367-49075-1 : **£180**

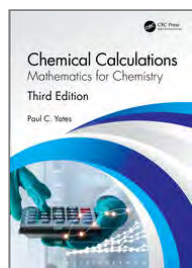
eBook: 978-1-003-05345-3

* For full contents and more information, visit: www.routledge.com/9780367513450

3RD EDITION

Chemical Calculations

Mathematics for Chemistry, Third Edition

**Paul C. Yates**

Uniquely organized by chemical rather than mathematical topics, this book relates each mathematical technique to the chemical concepts where it applies. The new edition features additional, revised, and updated material in every chapter, and maintains the clarity of the previous edition with appropriate organization of topics and improved cross-referencing where mathematical techniques occur more than once. The text contains additional worked examples and end-of-chapter exercises with detailed solutions—giving students the opportunity to apply previously introduced techniques to chemically related problems. An ideal course companion for chemistry courses throughout the length of a degree.

CRC Press

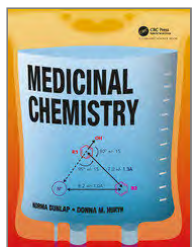
October 2024: 388pp

Pb: 978-0-367-48866-6 : **£24.99**Hb: 978-0-367-48867-3 : **£66.99**

eBook: 978-1-003-04321-8

* For full contents and more information, visit: www.routledge.com/9780367488666

Medicinal Chemistry



Norma K Dunlap Middle Tennessee State University, USA, **Donna M Huryn** University of Pennsylvania and University of Pittsburgh, USA

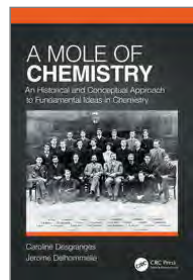
Medicinal Chemistry teaches the essential concepts of medicinal chemistry from the perspective of practicing.

Garland Science
April 2018 : 508pp
Pb: 978-0-815-34556-5 : £110
eBook: 978-1-315-10047-0

* For full contents and more information, visit: www.routledge.com/9780815345565

A Mole of Chemistry

An Historical and Conceptual Approach to Fundamental Ideas in Chemistry



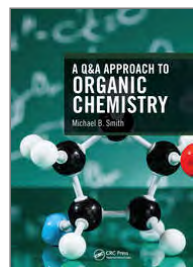
Caroline Desgranges Research Assistant Professor, UMass Lowell, USA, **Jerome Delhommelle** Associate Professor, UMass Lowell, USA

This book is intended for students in their undergraduate years who need to learn the basics of chemistry, including science and engineering as well as humanities. This is a companion textbook which provides a unique perspective on how the main scientific concepts describing nature were discovered and, eventually, how modern chemistry was born. The book makes use of context found in history, philosophy and the arts to better understand their developments, and without using mathematical equations. The focus is then set on scientific reasoning, making this book a great companion and addition to traditional chemistry textbooks.

CRC Press
March 2020 : 229pp
Pb: 978-0-367-20824-0 : **£89.99**
Hb: 978-0-367-20828-8 : **£220**
eBook: 978-0-429-26368-2

* For full contents and more information, visit: www.routledge.com/9780367208240

A Q&A Approach to Organic Chemistry



Michael B. Smith

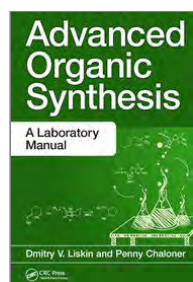
A Q&A Approach to Organic Chemistry begins with atomic orbitals and bonding. All critical topics are covered, including bonding, nomenclature, stereochemistry, conformations, acids and bases, oxidations, reductions, substitution, elimination, acyl addition, acyl substitution, enolate anion reactions, the Diels-Alder reaction and sigmatropic rearrangements, aromatic chemistry, spectroscopy, amino acids and proteins, carbohydrates and nucleosides. All major reactions are covered. This edition has been completely revised and updated by the author, and each chapter includes end-of-chapter homework questions with the answer keys in an Appendix.

CRC Press
February 2022 : 358pp
Pb: 978-1-032-24068-8 : **£47.99**
Hb: 978-0-367-22427-1 : **£150**
eBook: 978-0-429-27484-8

* For full contents and more information, visit: www.routledge.com/9781032240688

Advanced Organic Synthesis

A Laboratory Manual



Dmitry V. Liskin Christopher Newport University, Virginia, USA, **Penny Chaloner** Imperial College London, UK

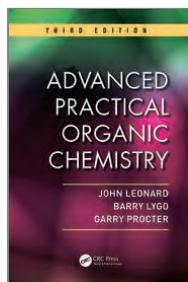
This book is designed for students aspiring to gain knowledge and techniques in organic synthesis. It focuses on a mechanistic background of key reactions in organic chemistry, gives insight into well-established trends, and introduces new developments in the field. Featuring experiments that were performed by the author as a graduate student as well as some of his recently published experiments, it provides undergraduates with theoretical knowledge and practical experience needed to succeed in graduate school or industry.

CRC Press
November 2015 : 132pp
Pb: 978-1-482-24496-0 : **£63.99**
Hb: 978-1-138-40691-9 : **£190**
eBook: 978-0-429-17248-9

* For full contents and more information, visit: www.routledge.com/9781482244960

3RD EDITION

Advanced Practical Organic Chemistry



John Leonard AstraZeneca, Macclesfield, UK, **Barry Lygo** University of Nottingham, UK, **Garry Procter** University of Manchester, UK

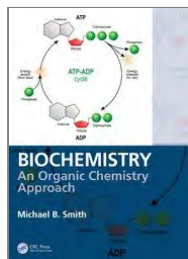
With an emphasis on the most up-to-date techniques commonly used in organic synthesis, this third edition reference draws on the extensive experience of the authors and their association with some of the world's leading laboratories of synthetic organic chemistry. Written mainly for graduate and advanced undergraduate students as well as industrial organic chemists, this book provides sufficient guidance to allow the researcher to carry out reactions under conditions that offer the highest chance of success. It offers fully updated information and re-drawn figures to illustrate the information at the highest possible standard.

CRC Press
January 2013 : 356pp
Pb: 978-1-439-86097-7 : **£82.99**
Hb: 978-1-138-45593-1 : **£190**
eBook: 978-0-429-16876-5

* For full contents and more information, visit: www.routledge.com/9781439860977

Biochemistry

An Organic Chemistry Approach



Michael B. Smith University of Connecticut, Storrs, USA

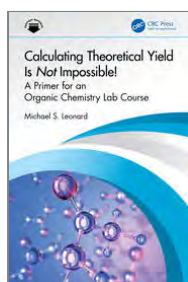
Biochemistry: An Organic Chemistry Approach provides a framework for understanding various topics of biochemistry, including the chemical behavior of biomolecules, enzyme activity, and more. It goes beyond mere memorization. Using several techniques to develop a relational understanding, including homework, this text helps students fully grasp and better correlate the essential organic chemistry concepts with those concepts at the root of biochemistry. The goal is to better understand the fundamental principles of biochemistry.

CRC Press
May 2020 : 398pp
Pb: 978-0-815-36645-4 : **£115**
Hb: 978-0-815-36713-0 : **£230**
eBook: 978-1-351-25808-1

* For full contents and more information, visit: www.routledge.com/9780815366454

Calculating Theoretical Yield Is Not Impossible!

A Primer for an Organic Chemistry Lab Course



Michael S. Leonard

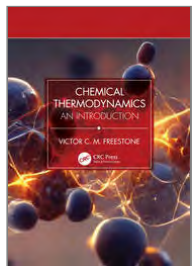
Calculating theoretical and percent yield is a fundamental skill for the laboratory. This book primarily targets Organic Chemistry Laboratory courses at the high school or college and university level, as a supplemental resource to help students master this skill. It begins with simple examples from everyday life, demonstrates the importance of balancing the equation, addresses the role of the mole in these computations, discusses different types of liquids, considers the role of significant figures, and culminates with the planning of syntheses. There are suggestions for further reading as well as practice problems and questions to ensure mastery.

CRC Press
February 2025 : 104pp
Pb: 978-1-032-95971-9 : **£49.99**
Hb: 978-1-032-95972-6 : **£91.99**
eBook: 978-1-003-58740-8

* For full contents and more information, visit: www.routledge.com/9781032959719

Chemical Thermodynamics

An Introduction



Victor CM Freestone

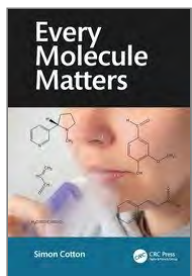
Thermodynamics can never be made easy, but with the right approach and a consistent use of scientific terms it can be made less opaque, and it can give a person an insight into how science explains why things happen the way they do. The approach adopted in this book will give readers a better understanding of how science works together with its limitations. Thermodynamics is a subject which (apart from quantum mechanics) probably causes most confusion and bewilderment amongst scientists. No one can pretend that the subject is easy, but it can be made accessible by a rigorous definition of concepts and ensuring that a consistency of use of these definitions is maintained.

CRC Press
June 2025 : 348pp
Pb: 978-1-041-00153-9 : **£110**
Hb: 978-1-041-00154-6 : **£270**
eBook: 978-1-003-60840-0

* For full contents and more information, visit: www.routledge.com/9781041001539

2ND EDITION

Every Molecule Tells a Story



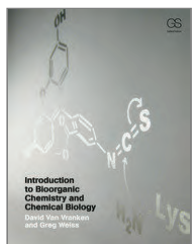
Simon Anthony Cotton University of Birmingham, UK

This latest edition continues the celebration of molecules responsible for the experiences of everyday life such as the air we breathe, the water we drink, the chemicals that fuel our living. It presents new sections, notably the chemistry of molecules in food, including spices; vitamins; molecules with unpleasant smells (which seem to interest many people!); organic halogen compounds, substances which have an undeserved reputation. It also covers developments such as the chemistry of drugs; drugs of abuse, for example opioid painkillers. Based on the highly successful first edition, this book brushes away any preconceived notions about chemistry to demonstrate its importance.

CRC Press
March 2026 : 300pp
Pb: 978-1-032-61624-7 : **£49.99**
Hb: 978-1-032-61552-3 : **£91.99**

* For full contents and more information, visit: www.routledge.com/9781032616247

Introduction to Bioorganic Chemistry and Chemical Biology



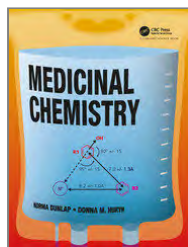
David Van Vranken , GREGORY A WEISS

This textbook uniquely blends the modern tools of organic chemistry with concepts of biology, physiology, and medicine. With a focus on human cell biology and using a problems-driven approach, the text explains the combinatorial architecture of biooligomers (genes, DNA, RNA, proteins, glycans, lipids, and terpenes) as the molecular engine for life. Accentuated by descriptions of mechanistic arrow pushing and rich illustrations, organic chemistry is used to illuminate the central dogma of molecular biology. The text contains more than 300 problems to test assimilation or the material.

Garland Science
November 2012 : 504pp
Pb: 978-0-815-34214-4 : **£79.99**
eBook: 978-0-203-38109-0

* For full contents and more information, visit: www.routledge.com/9780815342144

Medicinal Chemistry



Norma K Dunlap Middle Tennessee State University, USA, **Donna M Huryn** University of Pennsylvania and University of Pittsburgh, USA

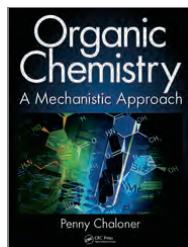
Medicinal Chemistry teaches the essential concepts of medicinal chemistry from the perspective of practicing.

Garland Science
April 2018 : 508pp
Pb: 978-0-815-34556-5 : **£110**
eBook: 978-1-315-10047-0

* For full contents and more information, visit: www.routledge.com/9780815345565

Organic Chemistry

A Mechanistic Approach



Penny Chaloner Imperial College London, UK

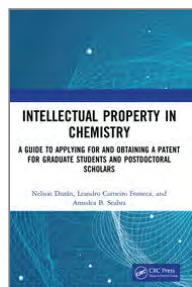
This textbook classifies organic chemistry according to mechanism rather than classification of functional groups, with the intention of having students understand by means of problem solving. The emphasis is on the development of skills through a student-centered pedagogical approach. The inclusion of chromatography, spectroscopy, and spectrometry early in the book is an important concept. The book contains the customary chapters on biomolecules, but also presents chapters on industrially important processes and their economics, and environmental chemistry, areas in which every 21st-century-educated scientist should have familiarity.

CRC Press
December 2014 : 1286pp
Hb: 978-1-482-20690-6 : **£160**
eBook: 978-0-429-17136-9

* For full contents and more information, visit: www.routledge.com/9781482206906

Intellectual Property in Chemistry

A Guide to Applying for and Obtaining a Patent for Graduate Students and Postdoctoral Scholars



Nelson Durán Institute of Chemistry, University of Campinas, Brazil, **Leandro Carneiro Fonseca** Institute of Chemistry, University of Campinas, Brazil, **Amedea B. Seabra** Center for Natural and Human Sciences - Federal University of ABC, Brazil

This book provides detailed instructions for reading and writing a patent. The book presents useful instructions for undergraduate and graduate students as well as post-doctoral, researchers and professors in the field of Chemistry and related areas. Written from a practical point of view it answers the simple and often asked question: how should I read and write a patent? The book is particularly directed to graduate students, who are initiating their research and often lack experience with patents. The ability to write and comprehend patents is fundamental for the success of their projects.

CRC Press

December 2018 : 139pp

Pb: 978-1-138-60082-9 : **£82.99**

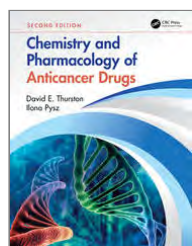
Hb: 978-1-138-60083-6 : **£175**

eBook: 978-0-429-47057-8

* For full contents and more information, visit: www.routledge.com/9781138600829

2ND EDITION

Chemistry and Pharmacology of Anticancer Drugs



David E. Thurston, Ilona Pysz

This book is a comprehensive survey of all families of anticancer agents and therapeutic approaches currently in use or in advanced stages of clinical trials, including biological-based therapies. The book is unique in providing molecular structures for all anticancer agents, discussing them in terms of history of development, chemistry, mechanism of action, structure-function relationships and pharmacology. This book is an indispensable resource for cancer researchers, medicinal chemists and other biomedical scientists. The new edition of this book will have a Companion Website offering regular updates to the twelve chapters useful for both students and instructors.

CRC Press
March 2021 : 618pp
Pb: 978-1-439-85326-9 : £130
Hb: 978-1-138-32358-2 : £205
eBook: 978-1-315-37472-7

* For full contents and more information, visit: www.routledge.com/9781439853269

2ND EDITION

Drug Delivery

Fundamentals and Applications, Second Edition



Edited by **Anya Hillery** Saint Louis University, Madrid Campus, Avenida del Valle 34, 28003 Madrid, Spain, **Kinam Park** Purdue University, 206 S. Martin Jischke Drive, West Lafayette, IN 47907, USA

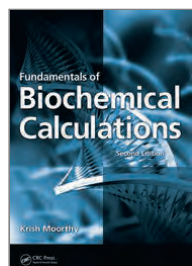
This book provides a comprehensive introduction to advanced drug delivery and targeting, covering their principles, current applications, and potential future developments. This edition has been updated to reflect significant trends and cutting-edge advances that have occurred since the first edition was published. All the original chapters have been retained, but the material therein has been updated. Eight new chapters have been added that deal with entirely new technologies and approaches.

CRC Press
September 2016 : 632pp
Pb: 978-1-482-21771-1 : £120
Hb: 978-1-138-40736-7 : £190
eBook: 978-1-315-38257-9

* For full contents and more information, visit: www.routledge.com/9781482217711

2ND EDITION

Fundamentals of Biochemical Calculations



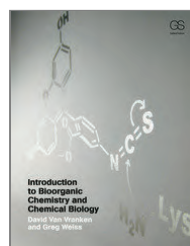
Krish Moorthy Formerly of RMIT University, Melbourne, Australia

Drawing attention to the widely applicable Ratio method for performing biochemical calculations, this fully updated text encourages scientists to learn, rather than memorize, the processes involved by developing their mathematical logic and problem solving skills. The book's user-friendly style requires no advanced knowledge of mathematics. Featuring new solved problems, useful comments, and mathematical hints, this edition also introduces three new chapters on calculations related to experimental biochemistry, molecular biology, and pharmacy. It also includes a supplementary CD with additional questions and answers.

CRC Press
November 2007 : 192pp
Pb: 978-1-420-05357-9 : £49.99
Hb: 978-1-138-40702-2 : £190
eBook: 978-0-429-14218-5

* For full contents and more information, visit: www.routledge.com/9781420053579

Introduction to Bioorganic Chemistry and Chemical Biology



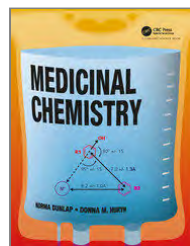
David Van Vranken, GREGORY A WEISS

This textbook uniquely blends the modern tools of organic chemistry with concepts of biology, physiology, and medicine. With a focus on human cell biology and using a problems-driven approach, the text explains the combinatorial architecture of biooligomers (genes, DNA, RNA, proteins, glycans, lipids, and terpenes) as the molecular engine for life. Accentuated by descriptions of mechanistic arrow pushing and rich illustrations, organic chemistry is used to illuminate the central dogma of molecular biology. The text contains more than 300 problems to test assimilation of the material.

Garland Science
November 2012 : 504pp
Pb: 978-0-815-34214-4 : £79.99
eBook: 978-0-203-38109-0

* For full contents and more information, visit: www.routledge.com/9780815342144

Medicinal Chemistry



Norma K Dunlap Middle Tennessee State University, USA, **Donna M Huryn** University of Pennsylvania and University of Pittsburgh, USA

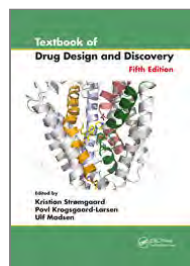
Medicinal Chemistry teaches the essential concepts of medicinal chemistry from the perspective of practicing.

Garland Science
April 2018 : 508pp
Pb: 978-0-815-34556-5 : £110
eBook: 978-1-315-10047-0

* For full contents and more information, visit: www.routledge.com/9780815345565

5TH EDITION

Textbook of Drug Design and Discovery



Edited by **Kristian Stromgaard**, **Povl Krogsgaard-Larsen**, **Ulf Madsen**

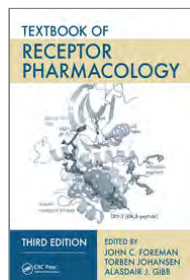
Building on the success of the previous editions, the Textbook of Drug Design and Discovery, Fifth Edition, has been thoroughly revised and updated to provide a complete source of information on all facets of drug design and discovery for students of chemistry, pharmacy, pharmacology, biochemistry, and medicine. The information is presented in an up-to-date review form with an underlying and fundamental focus on the educational aspects. Additionally, several new chapters have been added.

CRC Press
July 2022 : 452pp
Pb: 978-1-032-33994-8 : £51.99
Hb: 978-1-498-70278-2 : £130
eBook: 978-1-315-37181-8

* For full contents and more information, visit: www.routledge.com/9781032339948

3RD EDITION

Textbook of Receptor Pharmacology



Edited by **John C. Foreman , Torben Johansen , Alasdair J. Gibb**

Originating from a renowned course on receptor pharmacology, this text presents in-depth coverage of this rapidly expanding research area. The book combines current understanding of classical quantitative pharmacology and drug-receptor interactions with the basics of receptor structure and signal transduction mechanisms. It focuses on molecular investigation of receptor structure, quantitative functional studies of agonists and antagonists, ligand binding, and signal transduction at the cell membrane. This edition includes updated chapters on receptor structure and signal transduction by G-proteins and tyrosine kinases as well as enhancements to the quantitative treatment of drug-receptor

CRC Press

June 2021 : 312pp

Pb: 978-1-032-09937-8 : **£47.99**

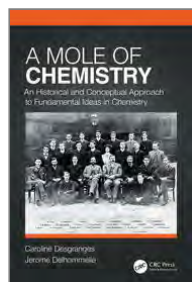
Hb: 978-1-420-05254-1 : **£145**

eBook: 978-0-429-14730-2

* For full contents and more information, visit: www.routledge.com/9781032099378

A Mole of Chemistry

An Historical and Conceptual Approach to Fundamental Ideas in Chemistry



Caroline Desgranges Research Assistant Professor, UMass Lowell, USA, **Jerome Delhommelle** Associate Professor, UMass Lowell, USA

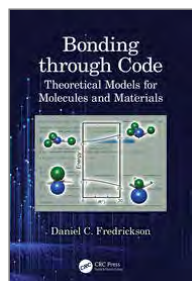
This book is intended for students in their undergraduate years who need to learn the basics of chemistry, including science and engineering as well as humanities. This is a companion textbook which provides a unique perspective on how the main scientific concepts describing nature were discovered and, eventually, how modern chemistry was born. The book makes use of context found in history, philosophy and the arts to better understand their developments, and without using mathematical equations. The focus is then set on scientific reasoning, making this book a great companion and addition to traditional chemistry textbooks.

CRC Press
March 2020 : 229pp
Pb: 978-0-367-20824-0 : **£89.99**
Hb: 978-0-367-20828-8 : **£220**
eBook: 978-0-429-26368-2

* For full contents and more information, visit: www.routledge.com/9780367208240

Bonding through Code

Theoretical Models for Molecules and Materials



Daniel C. Fredrickson University of Wisconsin-Madison, USA

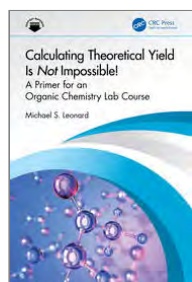
This timely and unique publication is designed for graduates and researchers in physical inorganic chemistry covering bonding models and applications of symmetry concepts to chemical systems. The book discusses the quantum mechanical basis for molecular orbital concepts, the connections between molecular orbitals and localized views of bonding, group theory, and bonding models for a variety of compounds. Unlike other books, the concepts are made tangible to the readers by guiding them through the implementation in Matlab functions. No background in Matlab or computer programming is needed and the book will provide the necessary skills.

CRC Press
August 2022 : 244pp
Pb: 978-0-367-54487-4 : **£41.99**
Hb: 978-1-498-76221-2 : **£130**
eBook: 978-0-429-15401-0

* For full contents and more information, visit: www.routledge.com/9780367544874

Calculating Theoretical Yield Is Not Impossible!

A Primer for an Organic Chemistry Lab Course



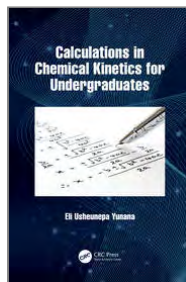
Michael S. Leonard

Calculating theoretical and percent yield is a fundamental skill for the laboratory. This book primarily targets Organic Chemistry Laboratory courses at the high school or college and university level, as a supplemental resource to help students master this skill. It begins with simple examples from everyday life, demonstrates the importance of balancing the equation, addresses the role of the mole in these computations, discusses different types of liquids, considers the role of significant figures, and culminates with the planning of syntheses. There are suggestions for further reading as well as practice problems and questions to ensure mastery.

CRC Press
February 2025 : 104pp
Pb: 978-1-032-95971-9 : **£49.99**
Hb: 978-1-032-95972-6 : **£91.99**
eBook: 978-1-003-58740-8

* For full contents and more information, visit: www.routledge.com/9781032959719

Calculations in Chemical Kinetics for Undergraduates



Eli Usheunepa Yunana Alumni University of Glasgow.

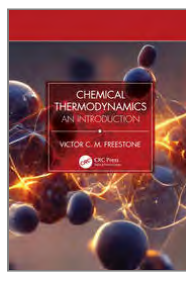
This book aims to restore passion for problem solving and applied quantitative skills in undergraduate chemistry students. Avoiding complicated chemistry jargon and providing hints and step wise explanations in every calculation problem, the author helps students overcome their fear of handling mathematically applied problems in physical chemistry. This solid foundation in their early studies will enable them to connect fundamental theoretical chemistry to real experimental applications in their graduate work and beyond.

CRC Press
June 2022 : 92pp
Pb: 978-1-032-22820-4 : **£26.99**
Hb: 978-1-032-22834-1 : **£63.99**
eBook: 978-1-003-27438-4

* For full contents and more information, visit: www.routledge.com/9781032228204

Chemical Thermodynamics

An Introduction



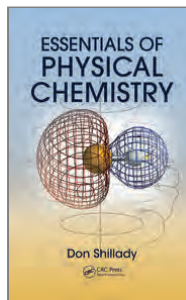
Victor CM Freestone

Thermodynamics can never be made easy, but with the right approach and a consistent use of scientific terms it can be made less opaque, and it can give a person an insight into how science explains why things happen the way they do. The approach adopted in this book will give readers a better understanding of how science works together with its limitations. Thermodynamics is a subject which (apart from quantum mechanics) probably causes most confusion and bewilderment amongst scientists. No one can pretend that the subject is easy, but it can be made accessible by a rigorous definition of concepts and ensuring that a consistency of use of these definitions is maintained.

CRC Press
June 2025 : 348pp
Pb: 978-1-041-00153-9 : **£110**
Hb: 978-1-041-00154-6 : **£270**
eBook: 978-1-003-60840-0

* For full contents and more information, visit: www.routledge.com/9781041001539

Essentials of Physical Chemistry



Don Shillady Virginia Commonwealth University, Richmond, USA

Particularly well-suited for students not pursuing a traditional chemistry curriculum, such as premedical and forensic science students, this book presents a stand-alone approach to teaching physical chemistry in a one-semester course, a current trend in undergraduate education. This new undergraduate textbook succeeds in inspiring a thorough understanding rather than merely exposing students to what they all too often perceive as a painful and confusing experience. The author includes real-world applications, worked examples, end-of-chapter problems, key solutions, thermodynamic data, and much more to assist in the teaching and learning of physical chemistry.

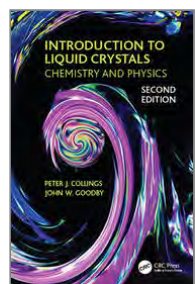
CRC Press
July 2011 : 512pp
Hb: 978-1-439-84097-9 : **£55.99**
eBook: 978-0-429-18437-6

* For full contents and more information, visit: www.routledge.com/9781439840979

2ND EDITION

Introduction to Liquid Crystals

Chemistry and Physics, Second Edition



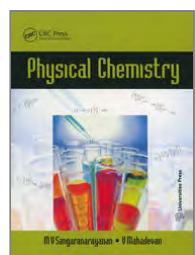
Peter J. Collings Swarthmore College, Swarthmore, PA, USA, **John W. Goodby** University of York, York, UK

Introduction to Liquid Crystals: Chemistry and Physics, Second Edition relies on only introductory level chemistry and physics as the foundation for understanding liquid crystal science. Liquid crystals combine the material properties of solids with the flow properties of fluids. As such they have provided the foundation for a revolution in low-power, flat-panel display technology LCDs. In this book, the essential elements of liquid crystal science are introduced and explained from the perspectives of the chemist, physicist and engineer.

CRC Press
October 2019 : 531pp
Pb: 978-1-138-29876-7 : **£63.99**
Hb: 978-1-138-29885-9 : **£220**
eBook: 978-1-315-09834-0

* For full contents and more information, visit: www.routledge.com/9781138298767

Physical Chemistry



M. V. Sangaranarayanan Indian Institute of Technology, Madras, India, **V. Mahadevan**

This text presents a unified treatment of the classical topics of physical chemistry in a lucid manner to aid easy comprehension. It clear, concise presentation develops the subject matter in a logical manner, allowing students to learn and apply the concepts rather than memorize the subject by rote. Extensive exercises are provided at the end of each chapter for the student to test his/her understanding of the concepts. Interesting facts have been highlighted in grey boxes. Worked examples complement the text wherever required. The exercises at the end of each chapter will be extremely valuable to sharpen problem-solving skills.

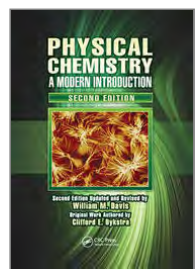
CRC Press
April 2012 : 592pp
Hb: 978-1-466-51183-5 : **£58.99**

* For full contents and more information, visit: www.routledge.com/9781466511835

2ND EDITION

Physical Chemistry

A Modern Introduction, Second Edition



William M. Davis Texas Lutheran University, Seguin, USA

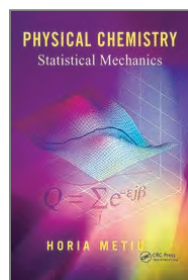
Designed specifically for a two-semester introductory course sequence in physical chemistry, this text presents core principles and topics. Straightforward and streamlined, it presents the necessary amount of detail for comprehension. Organized in such a way that the various topics covered are connected to each other, it allows students to see physical chemistry as an interconnected discipline and not a series of unrelated concepts. Each chapter in this new edition has been thoroughly updated and includes new information on computational applications, more end of chapter problems, and new chapters on nanotechnology and surface chemistry

CRC Press
September 2018 : 520pp
Pb: 978-1-138-11399-2 : **£67.99**
Hb: 978-1-439-81077-4 : **£190**
eBook: 978-0-429-06720-4

* For full contents and more information, visit: www.routledge.com/9781138113992

Physical Chemistry

Statistical Mechanics



Horia Metiu University of California Santa Barbara, USA

This is a new undergraduate textbook on physical chemistry by Horia Metiu published as four separate paperback volumes

Taylor & Francis
February 2006 : 318pp
Pb: 978-0-815-34085-0 : **£37.99**
eBook: 978-0-429-25893-0

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Physical Chemistry

Kinetics



Horia Metiu University of California Santa Barbara, USA

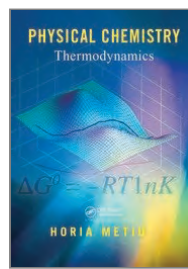
This is a new undergraduate textbook on physical chemistry by Horia Metiu published as four separate paperback volumes

Taylor & Francis
February 2006 : 192pp
Pb: 978-0-815-34089-8 : **£37.99**
eBook: 978-0-429-25894-7

* For full contents and more information, visit: www.routledge.com/9780815340898

Physical Chemistry

Thermodynamics



Horia Metiu University of California Santa Barbara, USA

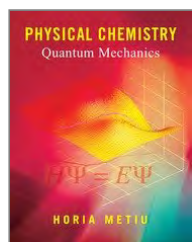
This is a new undergraduate textbook on physical chemistry by Horia Metiu published as four separate paperback volumes

Taylor & Francis
February 2006 : 318pp
Pb: 978-0-815-34091-1 : **£71.99**
eBook: 978-0-429-25892-3

* For full contents and more information, visit: www.routledge.com/9780815340911

Physical Chemistry

Quantum Mechanics



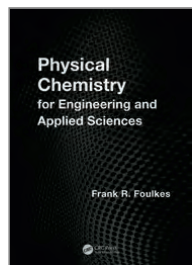
Horia Metiu University of California Santa Barbara, USA

This is a new undergraduate textbook on physical chemistry by Horia Metiu published as four separate paperback volumes

Taylor & Francis
February 2006 : 512pp
Pb: 978-0-815-34087-4 : **£61.99**
eBook: 978-0-429-25891-6

* For full contents and more information, visit: www.routledge.com/9780815340874

Physical Chemistry for Engineering and Applied Sciences



Frank R. Foulkes Toronto, Ontario, Canada

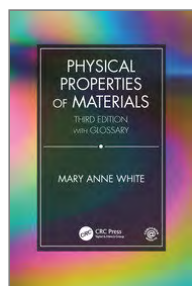
This book is the result of more than 30 years of teaching by the author of a one-semester course in physical chemistry to first-year students at the University of Toronto. The enrollment varied from 300 to 800 students per year over the years. The book is unique in that it provides the detailed development of the equations, which can be followed relatively easily even with only moderate mathematical skills and backgrounds. The book provides interesting and inspiring examples, as well as many problems and solutions.

CRC Press
September 2012 : 704pp
Hb: 978-1-466-51846-9 : **£110**
eBook: 978-0-429-09875-8

* For full contents and more information, visit: www.routledge.com/9781466518469

3RD EDITION

Physical Properties of Materials, Third Edition



Mary Anne White Dalhousie University, Halifax, Nova Scotia, Canada

The book focuses on the optical, thermal, electrical, magnetic and mechanical properties of materials. It introduces various materials via their properties and application of materials through tutorials via a companion website. In comparison with other textbooks it has broader coverage of physical properties and deep connections concerning the relationship between structure and origins of the properties. New topics include reference to the latest research topics in materials science and engineering, including boron nitride nanotubes, new cloaking technologies, new energy storage materials, and materials for renewable energy capture. It now features a glossary at the end of the book.

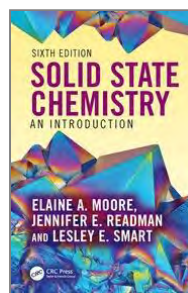
CRC Press
October 2018 : 518pp
Pb: 978-1-138-60510-7 : **£65.99**
Hb: 978-1-138-56917-1 : **£155**
eBook: 978-0-429-46826-1

* For full contents and more information, visit: www.routledge.com/9781138605107

6TH EDITION

Solid State Chemistry

An Introduction



Elaine A. Moore The Open University, Milton Keynes, UK,
Jennifer Readman University of Central Lancashire

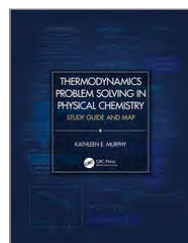
Solid-state chemistry is still a rapidly advancing field, contributing to areas such as batteries for transport and energy storage, nanostructured materials, porous materials for the capture of carbon dioxide and other pollutants. This edition aims, as previously, not only to teach the basic science that underpins the subject, but also to direct the reader to the most modern techniques and to expanding and new areas of research. The user-friendly style takes a largely non-mathematical approach and gives practical examples of applications of solid state materials and concepts.

CRC Press
May 2025 : 412pp
Pb: 978-1-032-72887-2 : **£48.99**
Hb: 978-1-032-72894-0 : **£105**
eBook: 978-1-003-42294-5

* For full contents and more information, visit: www.routledge.com/9781032728872

Thermodynamics Problem Solving in Physical Chemistry

Study Guide and Map



Kathleen E. Murphy Daemen College, Amherst, NY, USA

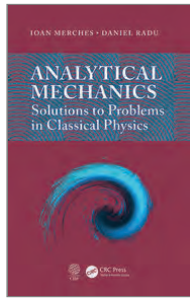
This innovative and unique workbook and "map" guides physical chemistry students through the decisions to be made to assess a problem situation, create appropriate solutions, and gain confidence through practice solving physical chemistry problems. The workbook includes six major sections with 20 - 30 solved problems in each section that span from easy, single objective questions to difficult, multistep analysis problems. Each section of the workbook has "key points" that highlight major features of the topic to remind students of what they need to apply to solve problems in the topic area. Consequently, the workbook and map can act as a "test" review for the students.

CRC Press
March 2020 : 138pp
Pb: 978-0-367-23116-3 : **£33.99**
Hb: 978-0-367-23147-7 : **£89.99**
eBook: 978-0-429-27840-2

* For full contents and more information, visit: www.routledge.com/9780367231163

Analytical Mechanics

Solutions to Problems in Classical Physics



Ioan Merches Al.I.Cuza University, Iasi, Romania, **Daniel Radu**

The principles and methods of analytical mechanics are very efficient for investigating not only mechanics but also in areas such as field theory, plasma physics, and quantum mechanics. This text presents a short theoretical description of these subjects, followed by solved problems. The authors thoroughly discuss solutions to the problems by taking a comprehensive approach to explore the methods of investigation. They carefully perform the calculations step by step, graphically displaying some solutions via Mathematica® 4.0.

CRC Press

August 2014 : 456pp

Hb: 978-1-482-23939-3 : **£89.99**

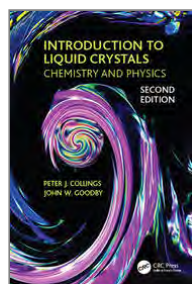
eBook: 978-0-429-06861-4

* For full contents and more information, visit: www.routledge.com/9781482239393

2ND EDITION

Introduction to Liquid Crystals

Chemistry and Physics, Second Edition



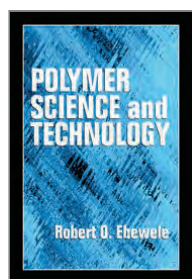
Peter J. Collings Swarthmore College, Swarthmore, PA, USA, **John W. Goodby** University of York, York, UK

Introduction to Liquid Crystals: Chemistry and Physics, Second Edition relies on only introductory level chemistry and physics as the foundation for understanding liquid crystal science. Liquid crystals combine the material properties of solids with the flow properties of fluids. As such they have provided the foundation for a revolution in low-power, flat-panel display technology LCDs. In this book, the essential elements of liquid crystal science are introduced and explained from the perspectives of the chemist, physicist and engineer.

CRC Press
October 2019 : 531pp
Pb: 978-1-138-29876-7 : **£63.99**
Hb: 978-1-138-29885-9 : **£220**
eBook: 978-1-315-09834-0

* For full contents and more information, visit: www.routledge.com/9781138298767

Polymer Science and Technology



Robert O. Ebewele University of Benin, Benin City, Nigeria

By consolidating into one volume the fundamentals currently covered piecemeal across several reference, this book simplifies the learning of polymer science. Its primary focus is the ultimate property of the finished polymer product. Part I explains polymer fundamentals. Part II discusses how polymers are prepared from monomers and the transformation of polymers into useful everyday articles. Part III examines the properties and applications of polymers. Polymer Science and Technology presents these aspects of the science in a readily understandable way. It emphasizes basic, qualitative comprehension of concepts, rather than their rote memorization or detailed mathematical analysis.

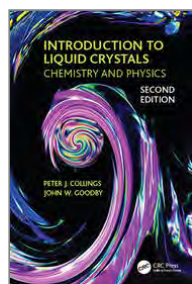
CRC Press
March 2000 : 504pp
Hb: 978-0-849-38939-9 : **£125**
eBook: 978-0-429-12792-2

* For full contents and more information, visit: www.routledge.com/9780849389399

2ND EDITION

Introduction to Liquid Crystals

Chemistry and Physics, Second Edition



Peter J. Collings Swarthmore College, Swarthmore, PA, USA, **John W. Goodby** University of York, York, UK

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CRC Press

October 2019 : 531pp

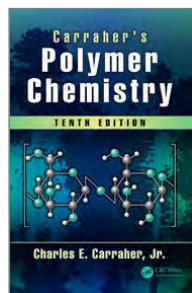
Pb: 978-1-138-29876-7 : **£63.99**Hb: 978-1-138-29885-9 : **£220**

eBook: 978-1-315-09834-0

* For full contents and more information, visit: www.routledge.com/9781138298767

10TH EDITION

Carraher's Polymer Chemistry



Charles E. Carraher Jr. Florida Atlantic University, Boca Raton, USA

This successful textbook integrates the core areas of polymer science. Along with updating of each chapter, new content will be added to reflect the growing applications in Biochemistry, Biomaterials, and Sustainable Industries. Providing a user-friendly approach to the world of polymeric materials, the book allows students to integrate their chemical knowledge and establish a connection between fundamental and applied chemical information. It contains all of the elements of an introductory text with synthesis, property, application, and characterization. Special sections in each chapter contain definitions, learning objectives, questions, case studies and additional reading.

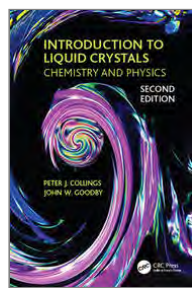
CRC Press
October 2017 : 816pp
Hb: 978-1-498-73738-8 : £145
eBook: 978-1-315-11660-0

* For full contents and more information, visit: www.routledge.com/9781498737388

2ND EDITION

Introduction to Liquid Crystals

Chemistry and Physics, Second Edition



Peter J. Collings Swarthmore College, Swarthmore, PA, USA, **John W. Goodby** University of York, York, UK

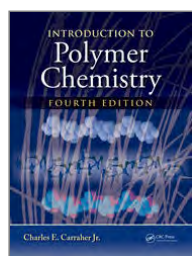
Introduction to Liquid Crystals: Chemistry and Physics, Second Edition relies on only introductory level chemistry and physics as the foundation for understanding liquid crystal science. Liquid crystals combine the material properties of solids with the flow properties of fluids. As such they have provided the foundation for a revolution in low-power, flat-panel display technology LCDs. In this book, the essential elements of liquid crystal science are introduced and explained from the perspectives of the chemist, physicist and engineer.

CRC Press
October 2019 : 531pp
Pb: 978-1-138-29876-7 : £63.99
Hb: 978-1-138-29885-9 : £220
eBook: 978-1-315-09834-0

* For full contents and more information, visit: www.routledge.com/9781138298767

4TH EDITION

Introduction to Polymer Chemistry



Charles E. Carraher Jr. Florida Atlantic University, Boca Raton, USA

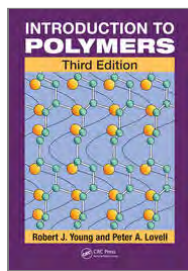
Introduction to Polymer Chemistry provides undergraduate students with a much-needed, well-rounded presentation of the principles and applications of natural, synthetic, inorganic, and organic polymers. With an emphasis on the environment and green chemistry and materials, this fourth edition continues to provide detailed coverage of natural and synthetic giant molecules, inorganic and organic polymers, elastomers, adhesives, coatings, fibers, plastics, blends, caulks, composites, and ceramics. Building on undergraduate work in foundational courses, the text fulfills the American Chemical Society Committee on Professional Training (ACS CPT) in-depth course requirement

CRC Press
January 2017 : 588pp
Hb: 978-1-498-73761-6 : £74.99
eBook: 978-1-315-36948-8

* For full contents and more information, visit: www.routledge.com/9781498737616

3RD EDITION

Introduction to Polymers



Robert J. Young University of Manchester, UK, **Peter A. Lovell** University of Manchester, UK

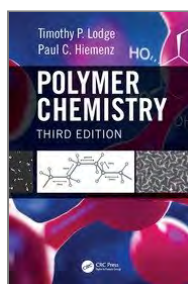
Thoroughly updated, this long-awaited new edition of a bestselling text provides extensive, detailed, and balanced coverage of polymer chemistry and polymer physics, spanning synthesis, characterization, bulk properties and morphology, and mechanical and electrical properties of polymers. The material has been completely reorganized and expanded to offer a coherent format for teaching and learning the fundamental aspects of contemporary polymer science. This edition incorporates the most important developments that have occurred in the past two decades, including "living" radical polymerization, supramolecular polymerization, and block and graft copolymer synthesis methods.

CRC Press
June 2011 : 688pp
Pb: 978-0-849-33929-5 : £61.99
Hb: 978-1-138-45957-1 : £190
eBook: 978-0-429-10948-5

* For full contents and more information, visit: www.routledge.com/9780849339295

3RD EDITION

Polymer Chemistry



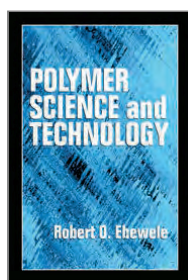
Timothy P. Lodge University of Minnesota-Twin Cities, Minneapolis, USA, **Paul C. Hiemenz** Emeritus - Cal State Polytechnic University, Pomona, CA

A well-rounded and articulate examination of polymer properties at the molecular level, this book focuses on fundamental principles based on underlying chemical structures, polymer synthesis, characterization, and properties. It emphasizes the logical progression of concepts and provide mathematical tools as needed, and fully derived problems for advanced calculations. This book expands and reorganizes material within chapters 2-5 to better develop polymer chemistry concepts and update the remaining chapters. New examples and problems will be added throughout.

CRC Press
July 2020 : 676pp
Hb: 978-1-466-58164-7 : £89.99
IEPB: 978-1-032-20585-4 : £39.99
eBook: 978-0-429-19081-0

* For full contents and more information, visit: www.routledge.com/9781466581647

Polymer Science and Technology



Robert O. Ebewele University of Benin, Benin City, Nigeria

By consolidating into one volume the fundamentals currently covered piecemeal across several reference, this book simplifies the learning of polymer science. Its primary focus is the ultimate property of the finished polymer product. Part I explains polymer fundamentals. Part II discusses how polymers are prepared from monomers and the transformation of polymers into useful everyday articles. Part III examines the properties and applications of polymers. Polymer Science and Technology presents these aspects of the science in a readily understandable way. It emphasizes basic, qualitative comprehension of concepts, rather than their rote memorization or detailed mathematical analysis.

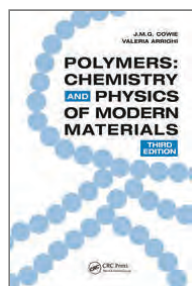
CRC Press
March 2000 : 504pp
Hb: 978-0-849-38939-9 : £125
eBook: 978-0-429-12792-2

* For full contents and more information, visit: www.routledge.com/9780849389399

3RD EDITION

Polymers

Chemistry and Physics of Modern Materials, Third Edition



J.M.G. Cowie Heriot-Watt University, Edinburgh, Scotland
, Valeria Arrighi Heriot-Watt University, Scotland

Underscoring the multidisciplinary nature of polymer science, this third edition provides a broad-based and comprehensive text at an introductory, reader-friendly level. With nearly 50 percent new or updated material, this edition presents new polymerization methods, characterization techniques, and applications in electronic, biological, and medical settings. New topics include controlled radical polymerization, novel polymer architectures, chain dimension, morphology, determining molecular weights, metallocene catalysts, copolymers, and rheological behavior. The book features real world examples, new chapter problems, and a solutions manual.

CRC Press

July 2007 : 520pp

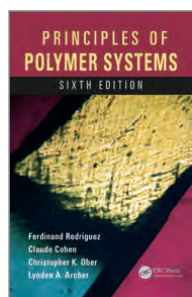
Pb: 978-0-849-39813-1 : £100

eBook: 978-0-429-12554-6

* For full contents and more information, visit: www.routledge.com/9780849398131

6TH EDITION

Principles of Polymer Systems



Ferdinand Rodriguez Cornell University, Ithaca, New York, USA, **Claude Cohen** Cornell University, Ithaca, New York, USA, **Christopher K. Ober** Cornell University, Ithaca, New York, USA, **Lynden Archer** Cornell University, Ithaca, New York, USA

A classic text in the field of chemical engineering, this revised sixth edition offers a comprehensive exploration of polymers at a level geared toward upper-level undergraduates and beginning graduate students. It contains more theoretical background for some of the fundamental concepts pertaining to polymer structure and behavior, while also providing an up-to-date discussion of the latest developments in polymerization systems. New problems have been added to several of the chapters, and a solutions manual is available upon qualifying course adoption.

CRC Press

December 2014 : 810pp

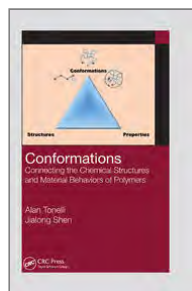
Hb: 978-1-482-22378-1 : £145

eBook: 978-0-429-17229-8

* For full contents and more information, visit: www.routledge.com/9781482223781

Conformations

Connecting the Chemical Structures and Material Behaviors of Polymers



Alan E. Tonelli, Jialong Shen

The authors provide both the polymer/materials science student and practicing materials engineer a means of understanding the differences in behaviors/properties of materials made from chemically distinct polymers. This knowledge can assist them in designing polymers with chemical structures that lead to their desired material behaviors and properties. The reader will learn how the detailed chemical structures of polymers can be characterized, how their microstructural dependent conformational preferences can be evaluated, and how these conformational preferences can be connected to the behaviors and properties of their materials.

CRC Press

December 2021 : 236pp

Pb: 978-1-032-24153-1 : **£47.99**

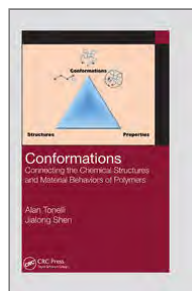
Hb: 978-1-138-57032-0 : **£145**

eBook: 978-0-203-70360-1

* For full contents and more information, visit: www.routledge.com/9781032241531

Conformations

Connecting the Chemical Structures and Material Behaviors of Polymers



Alan E. Tonelli, Jialong Shen

The authors provide both the polymer/materials science student and practicing materials engineer a means of understanding the differences in behaviors/properties of materials made from chemically distinct polymers. This knowledge can assist them in designing polymers with chemical structures that lead to their desired material behaviors and properties. The reader will learn how the detailed chemical structures of polymers can be characterized, how their microstructural dependent conformational preferences can be evaluated, and how these conformational preferences can be connected to the behaviors and properties of their materials.

CRC Press

December 2021 : 236pp

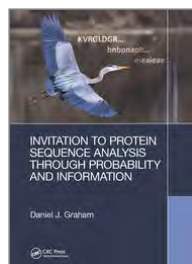
Pb: 978-1-032-24153-1 : **£47.99**

Hb: 978-1-138-57032-0 : **£145**

eBook: 978-0-203-70360-1

* For full contents and more information, visit: www.routledge.com/9781032241531

Invitation to Protein Sequence Analysis Through Probability and Information



Daniel Graham

This book explores the remarkable information correspondences and probability structures of proteins. Correspondences are pervasive in biochemistry and bioinformatics: proteins share homologies, folding patterns, and mechanisms. Probability structures are just as paramount: folded state graphics reflect Angstrom-scale maps of electron density. The author explores protein sequences (primary structures), both individually and in sets (systems) with the help of probability and information tools. This perspective will enhance the reader's knowledge of how an important class of molecules is designed and put to task in natural systems, and how we can approach class members in hands-on ways.

CRC Press

December 2021 : 310pp

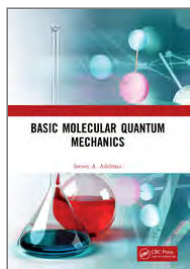
Pb: 978-1-032-24241-5 : **£45.99**

Hb: 978-0-367-13452-5 : **£115**

eBook: 978-0-429-02825-0

* For full contents and more information, visit: www.routledge.com/9781032242415

Basic Molecular Quantum Mechanics



Steven A. Adelman Purdue University, Department of Chemistry, West Lafayette, Indiana, USA

This book introduces quantum mechanics by covering the fundamentals of quantum mechanics and some of its most important chemical applications: vibrational and rotational spectroscopy and electronic structure of atoms and molecules. Thoughtfully organized, the author builds up quantum mechanics systematically with each chapter preparing the student for the more advanced chapters and complex applications.

CRC Press

August 2021 : 464pp

Pb: 978-1-498-73399-1 : **£79.99**

Hb: 978-1-032-01065-6 : **£190**

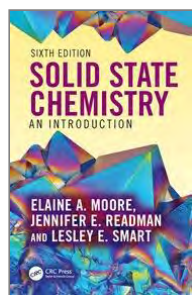
eBook: 978-0-429-15574-1

* For full contents and more information, visit: www.routledge.com/9781498733991

6TH EDITION

Solid State Chemistry

An Introduction



Elaine A. Moore The Open University, Milton Keynes, UK,
Jennifer Readman University of Central Lancashire

Solid-state chemistry is still a rapidly advancing field, contributing to areas such as batteries for transport and energy storage, nanostructured materials, porous materials for the capture of carbon dioxide and other pollutants. This edition aims, as previously, not only to teach the basic science that underpins the subject, but also to direct the reader to the most modern techniques and to expanding and new areas of research. The user-friendly style takes a largely non-mathematical approach and gives practical examples of applications of solid state materials and concepts.

CRC Press

May 2025 : 412pp

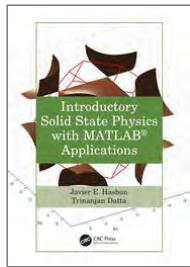
Pb: 978-1-032-72887-2 : £48.99

Hb: 978-1-032-72894-0 : £105

eBook: 978-1-003-42294-5

* For full contents and more information, visit: www.routledge.com/9781032728872

Introductory Solid State Physics with MATLAB Applications



Javier E. Hasbun , Trinanjan Datta

Solid state physics, the study and prediction of the fundamental physical properties of materials, forms the backbone of modern materials science and has many technological applications. The unique feature of this text is the MATLAB®-based computational approach with several numerical techniques and simulation methods included. This is highly effective in addressing the need for visualization and a direct hands-on approach in learning the theoretical concepts of solid state physics. The code is freely available to all textbook users.

CRC Press

October 2019 : 570pp

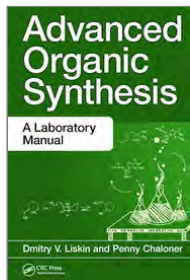
Hb: 978-1-466-51230-6 : **£89.99**

eBook: 978-0-429-08660-1

* For full contents and more information, visit: www.routledge.com/9781466512306

Advanced Organic Synthesis

A Laboratory Manual



Dmitry V. Liskin Christopher Newport University, Virginia, USA, **Penny Chaloner** Imperial College London, UK

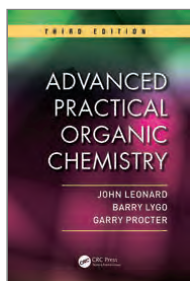
This book is designed for students aspiring to gain knowledge and techniques in organic synthesis. It focuses on a mechanistic background of key reactions in organic chemistry, gives insight into well-established trends, and introduces new developments in the field. Featuring experiments that were performed by the author as a graduate student as well as some of his recently published experiments, it provides undergraduates with theoretical knowledge and practical experience needed to succeed in graduate school or industry.

CRC Press
November 2015 : 132pp
Pb: 978-1-482-24496-0 : **£63.99**
Hb: 978-1-138-40691-9 : **£190**
eBook: 978-0-429-17248-9

* For full contents and more information, visit: www.routledge.com/9781482244960

3RD EDITION

Advanced Practical Organic Chemistry



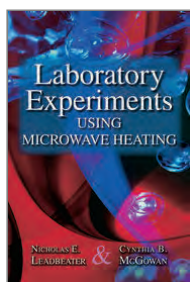
John Leonard AstraZeneca, Macclesfield, UK, **Barry Lygo** University of Nottingham, UK, **Garry Procter** University of Manchester, UK

With an emphasis on the most up-to-date techniques commonly used in organic synthesis, this third edition reference draws on the extensive experience of the authors and their association with some of the world's leading laboratories of synthetic organic chemistry. Written mainly for graduate and advanced undergraduate students as well as industrial organic chemists, this book provides sufficient guidance to allow the researcher to carry out reactions under conditions that offer the highest chance of success. It offers fully updated information and re-drawn figures to illustrate the information at the highest possible standard.

CRC Press
January 2013 : 356pp
Pb: 978-1-439-86097-7 : **£82.99**
Hb: 978-1-138-45593-1 : **£190**
eBook: 978-0-429-16876-5

* For full contents and more information, visit: www.routledge.com/9781439860977

Laboratory Experiments Using Microwave Heating



Nicholas E. Leadbeater University of Connecticut, Storrs, USA, **Cynthia B. McGowan** Merrimack College, North Andover, Massachusetts, USA

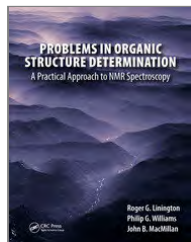
This book presents 22 experiments encompassing organic, inorganic, and analytical chemistry performed using microwave heating, making them fast and easy to accomplish in a laboratory period. All the experiments have been tested and verified in laboratory classes. Each chapter includes an introduction to the experiment, end-of-chapter questions, and two detailed protocols for performing the reaction using a small monomode and a larger multimode microwave unit. A number of the transformations use water as a solvent for a greener, more sustainable approach, while maintaining high reaction yields.

CRC Press
April 2013 : 232pp
Pb: 978-1-439-85609-3 : **£89.99**
eBook: 978-0-429-10830-3

* For full contents and more information, visit: www.routledge.com/9781439856093

Problems in Organic Structure Determination

A Practical Approach to NMR Spectroscopy



Roger G. Linington Simon Fraser University, Burnaby, British Columbia, Canada, **Philip G. Williams** University of Hawaii, USA, **John B. MacMillan** U.T. Southwestern, Texas, USA

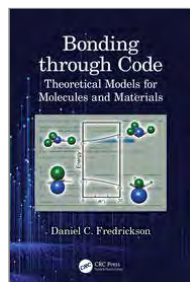
With extensive detailed spectral data, it contains a variety of problems designed by renowned authors to develop proficiency in organic structure determination. It presents a concept-based learning platform, introducing key concepts sequentially and reinforcing them with problems that exemplify the complexities and underlying principles that govern each concept.

CRC Press
October 2015 : 772pp
Pb: 978-1-498-71962-9 : **£145**
Hb: 978-1-138-45592-4 : **£190**
eBook: 978-0-429-17198-7

* For full contents and more information, visit: www.routledge.com/9781498719629

Bonding through Code

Theoretical Models for Molecules and Materials



Daniel C. Fredrickson University of Wisconsin-Madison, USA

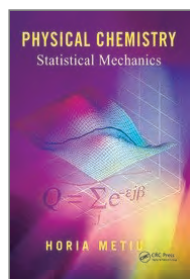
This timely and unique publication is designed for graduates and researchers in physical inorganic chemistry covering bonding models and applications of symmetry concepts to chemical systems. The book discusses the quantum mechanical basis for molecular orbital concepts, the connections between molecular orbitals and localized views of bonding, group theory, and bonding models for a variety of compounds. Unlike other books, the concepts are made tangible to the readers by guiding them through the implementation in Matlab functions. No background in Matlab or computer programming is needed and the book will provide the necessary skills.

CRC Press
August 2022 : 244pp
Pb: 978-0-367-54487-4 : **£41.99**
Hb: 978-1-498-76221-2 : **£130**
eBook: 978-0-429-15401-0

* For full contents and more information, visit: www.routledge.com/9780367544874

Physical Chemistry

Statistical Mechanics



Horia Metiu University of California Santa Barbara, USA

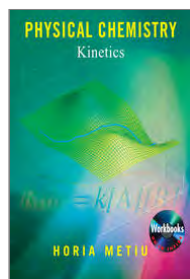
This is a new undergraduate textbook on physical chemistry by Horia Metiu published as four separate paperback volumes

Taylor & Francis
February 2006 : 318pp
Pb: 978-0-815-34085-0 : **£37.99**
eBook: 978-0-429-25893-0

* For full contents and more information, visit: www.routledge.com/9780815340850

Physical Chemistry

Kinetics



Horia Metiu University of California Santa Barbara, USA

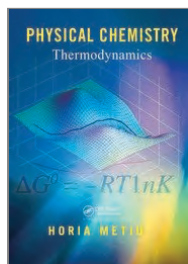
This is a new undergraduate textbook on physical chemistry by Horia Metiu published as four separate paperback volumes

Taylor & Francis
February 2006 : 192pp
Pb: 978-0-815-34089-8 : **£37.99**
eBook: 978-0-429-25894-7

* For full contents and more information, visit: www.routledge.com/9780815340898

Physical Chemistry

Thermodynamics



Horia Metiu University of California Santa Barbara, USA

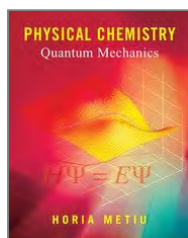
This is a new undergraduate textbook on physical chemistry by Horia Metiu published as four separate paperback volumes

Taylor & Francis
February 2006 : 318pp
Pb: 978-0-815-34091-1 : **£71.99**
eBook: 978-0-429-25892-3

* For full contents and more information, visit: www.routledge.com/9780815340911

Physical Chemistry

Quantum Mechanics



Horia Metiu University of California Santa Barbara, USA

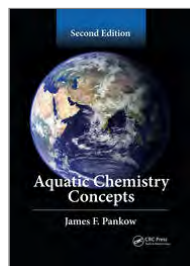
This is a new undergraduate textbook on physical chemistry by Horia Metiu published as four separate paperback volumes

Taylor & Francis
February 2006 : 512pp
Pb: 978-0-815-34087-4 : **£61.99**
eBook: 978-0-429-25891-6

* For full contents and more information, visit: www.routledge.com/9780815340874

2ND EDITION

Aquatic Chemistry Concepts, Second Edition



James F. Pankow

Aquatic Chemistry Concepts, Second Edition. Fully revised and updated, this textbook fills the need for a comprehensive treatment of aquatic chemistry and covers the many complicated equations and principles of aquatic chemistry. It presents the established science of equilibrium water chemistry using the uniquely recognizable, step-by-step Pankow format which allows a broad and deep understanding aquatic chemistry. The text is appropriate for a wide audience that includes undergraduate and graduate students, industry professionals, consultants, and regulators.

CRC Press

June 2022 : 582pp

Pb: 978-1-032-33773-9 : **£47.99**

Hb: 978-1-439-85440-2 : **£130**

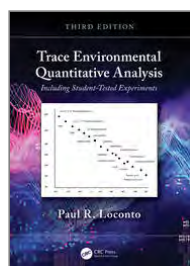
eBook: 978-0-429-19886-1

* For full contents and more information, visit: www.routledge.com/9781032337739

3RD EDITION

Trace Environmental Quantitative Analysis

Including Student-Tested Experiments



Paul R. Loconto Michigan Department of Community Health, Lansing, USA

A thorough and timely update, this new edition presents principles, techniques and applications in this sub-discipline of analytical chemistry for quantifying traces of potentially toxic organic and inorganic chemical substances found in air, soil, fish and water as well as serum, plasma, urine, and other body fluids.

CRC Press

January 2024 : 766pp

Pb: 978-0-367-63106-2 : **£79.99**

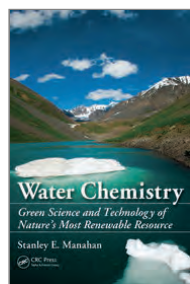
Hb: 978-0-367-44533-1 : **£215**

eBook: 978-1-003-01060-9

* For full contents and more information, visit: www.routledge.com/9780367631062

Water Chemistry

Green Science and Technology of Nature's Most Renewable Resource



Stanley E. Manahan University of Missouri, Department of Chemistry, Columbia, USA

A unique approach to the chemistry of water, this textbook by top environmental author Stanley Manahan focuses on water as a renewable resource from a green chemistry and sustainability perspective. An appropriate text for current affairs in environmental chemistry written at an intermediate level, this text is devoted to the hydrosphere and explains how it relates to the other four environmental spheres. It contains chapters on basic chemistry and organic chemistry useful to those readers whose fundamental knowledge of chemistry is limited and includes coverage of, pollution, wastewater, and water treatment. A solutions manual is available with qualifying course adoption.

CRC Press

August 2010 : 416pp

Pb: 978-1-439-83068-0 : **£110**

Hb: 978-1-138-47527-4 : **£190**

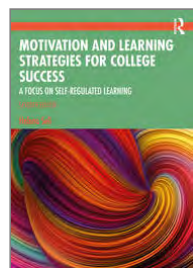
eBook: 978-0-429-10972-0

* For full contents and more information, visit: www.routledge.com/9781439830680

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 : 304pp
Pb: 978-1-032-47020-7 : **£51.99**
Hb: 978-1-032-47255-3 : **£145**
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 Eastern Kentucky University, USA, **Brian Dudak** Middle Tennessee State University, USA

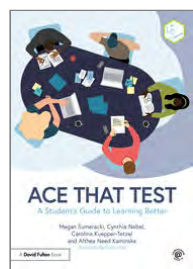
This book is your one-stop shop for the academic tools and habits needed to make your transition from high school to college a resounding success! The shift from high school to college can be a challenge, with many students finding the skills that had previously worked so well no longer seem to be enough. *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.

Prufrock Press
November 2023 : 202pp
Pb: 978-1-032-52409-2 : **£13.99**
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**

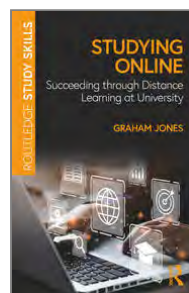
This exciting new text reveals the effective study strategies that will help you to use your time more efficiently, ace your tests, and retain information over time. In full colour and accompanied by beautifully illustrated graphics, *Ace That Test* offers evidence-based learning strategies that students 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 : 146pp
Pb: 978-1-032-35585-6 : **£17.99**
Hb: 978-1-032-35586-3 : **£135**
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 University of Buckingham, UK

Series: *Routledge Study Skills*

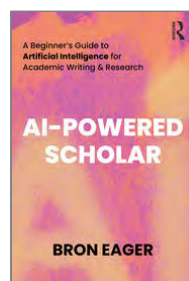
Helping you get to grips with online learning, this book contains a wealth of practical tips and strategies that will make studying online easier. Covering the advantages of online learning as well as the problems you might face, this book provides tried and tested advice to help you overcome those difficulties 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 : 244pp
Pb: 978-1-032-19539-1 : **£16.99**
Hb: 978-1-032-19538-4 : **£125**
eBook: 978-1-003-25969-5

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

AI-Powered Scholar

A Beginner's Guide to Artificial Intelligence for Academic Writing & Research



Bron Eager University of Tasmania, Australia

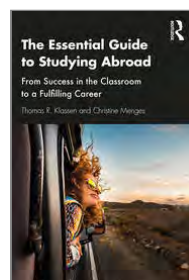
This book is a practical and comprehensive guide on using AI tools to streamline and optimise the academic writing and research process. Through a series of step-by-step instructions and practical tips, this book provides readers with the knowledge and tools they need to leverage the power of AI to produce high-quality academic publications. Whether you're a university student or a tenured professor, this book is your indispensable companion to beginning your path towards becoming an AI-powered scholar.

Routledge
December 2024 : 168pp
Pb: 978-1-032-66526-9 : **£18.99**
Hb: 978-1-032-66525-2 : **£135**
eBook: 978-1-032-66527-6

* For full contents and more information, visit: www.routledge.com/9781032665269

The Essential Guide to Studying Abroad

From Success in the Classroom to a Fulfilling Career



Thomas R. Klassen York University, Canada, **Christine Menges** WHU – Otto Beisheim School of Management, Germany

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 : 238pp
Pb: 978-0-367-23516-1 : **£32.99**
Hb: 978-0-367-23515-4 : **£135**
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 University of Richmond, USA

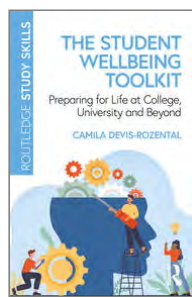
This concise and accessible resource offers new college students, especially those in science degree programs, guidance on engaging successfully with the classroom experience and skillfully tackling technical or scientific questions. The author provides insights on identifying, from the outset, individual 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 : 152pp
Pb: 978-1-032-20361-4 : **£24.99**
Hb: 978-1-032-20368-3 : **£62.99**
eBook: 978-1-003-26334-0

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

The Student Wellbeing Toolkit

Preparing for Life at College, University and Beyond



Camila Devis-Rozental Bournemouth University, UK

Series: Routledge Study Skills

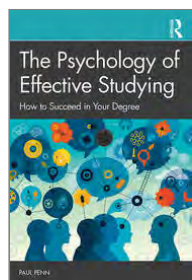
The Student Wellbeing Toolkit puts wellbeing at the centre of your journey into university and beyond. By encouraging self-efficacy and a focus on the things you can control, it provides clear guidance to enhance wellbeing and opportunities for self-reflection that help develop self-awareness and prosocial 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 : 286pp
Pb: 978-1-032-32966-6 : **£17.99**
Hb: 978-1-032-32965-9 : **£145**
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 : 244pp
Pb: 978-1-138-57092-4 : **£19.99**
Hb: 978-1-138-57090-0 : **£120**
eBook: 978-0-203-70311-3

* For full contents and more information, visit: www.routledge.com/9781138570924

2ND EDITION

Stress, Cognition and Health

Real World Examples and Practical Applications



Tony Cassidy

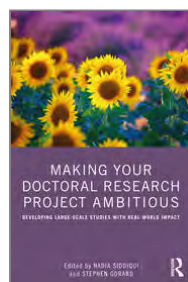
The new edition of this bestselling textbook provides a comprehensive overview of the latest research on stress and health, moving beyond the former deficit model to a resource growth model. It examines all aspects of the topic, from how the external world and the impact of technology makes demands upon individuals, through biological and psychological processes, to outcomes in terms health and wellbeing. The process is set within a dynamic, multilevel systems and developmental lifespan perspective. The book includes a history of the evolution of stress research and the biological systems and immune responses that translate external pressures into health outcomes.

Routledge
October 2022 : 148pp
Pb: 978-0-367-56418-6 : **£35.99**
Hb: 978-0-367-56634-0 : **£125**
eBook: 978-1-003-09873-7

* For full contents and more information, visit: www.routledge.com/9780367564186

Making Your Doctoral Research Project Ambitious

Developing Large-Scale Studies with Real-World Impact



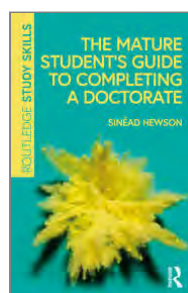
Edited by **Nadia Siddiqui** Durham University, UK,
Stephen Gorard Durham University, UK

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 : 278pp
Pb: 978-1-032-06245-7 : **£27.99**
Hb: 978-1-032-05975-4 : **£135**
eBook: 978-1-003-20136-6

* For full contents and more information, visit: www.routledge.com/9781032062457

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 : 282pp
Pb: 978-1-032-53800-6 : **£16.99**
Hb: 978-1-032-53801-3 : **£135**
eBook: 978-1-003-41369-1

* For full contents and more information, visit: www.routledge.com/9781032538006

The Mature Student's Companion for Successful Undergraduate Study



David Allan Edge Hill University, UK

Series: Routledge Study Skills

A guiding resource and supportive companion, this book is designed for mature individuals intending to undertake an undergraduate degree. With a wealth of practical strategies for developing study skills, whilst, at the same time, addressing the changes that university study can bring, this key text highlights the significance of individual strengths obtained from life experiences, and demonstrates their importance in learning as a mature student. Packed full of activities to support development and case studies to exemplify a range of situations, this is a must-read for anyone looking to undertake an undergraduate degree as a mature student.

Routledge

June 2025 : 152pp

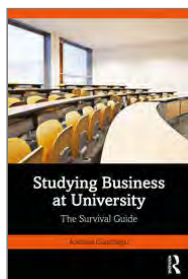
Pb: 978-1-032-61924-8 : **£29.99**

Hb: 978-1-032-61923-1 : **£145**

* For full contents and more information, visit: www.routledge.com/9781032619248

Studying Business at University

The Survival Guide



Andreas Giazitzoglou

Studying Business at University provides new and prospective undergraduates with a concise and easy-to-read insight into what life is like as a business student today. Written in the style of an email dialogue between two students, it informs and reassures the new business student who is seeking advice on how to get the most out of their degree experience, and covers the whole degree from application to graduation – and beyond. This book will also be a helpful reference for lecturers who want to give their students as much support as possible as they learn to balance the demands of academia with the pressures of the real world.

Routledge

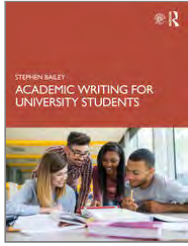
March 2025 : 134pp

Pb: 978-1-032-74042-3 : **£39.99**

Hb: 978-1-032-74034-8 : **£145**

* For full contents and more information, visit: www.routledge.com/9781032740423

Academic Writing for University Students



Stephen Bailey Taught English internationally and at the Univ of Nottingham & Derby Univ & has previously published with Routledge

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 : 324pp
Pb: 978-0-367-44539-3 : **£21.99**
Hb: 978-0-367-44538-6 : **£135**
eBook: 978-1-003-01021-0

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

6TH EDITION

Academic Writing

A Handbook for International Students



Stephen Bailey Taught English internationally and at the Univ of Nottingham & Derby Univ & has previously published with Routledge

The sixth edition of this popular book has been written to help international students succeed in writing essays and reports for their English-language academic courses. Thoroughly revised and updated in a streamlined format making it even easier to use, it is designed to let readers find the support they need easily, both in the classroom and for self-study. The book consists of three parts, comprising a total of 28 units, all of which are fully cross-referenced and can be taught in conjunction with each other or used for reference. A progress check at the end of each part allows students to self-assess their learning.

Routledge
March 2025 : 320pp
Pb: 978-1-032-83417-7 : **£26.99**
Hb: 978-1-032-83418-4 : **£145**
eBook: 978-1-003-50926-4

* For full contents and more information, visit: www.routledge.com/9781032834177

3RD EDITION

Academic Writing for International Students of Business and Economics



Stephen Bailey Taught English internationally and at the Univ of Nottingham & Derby Univ & has previously published with Routledge

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 : 346pp
Pb: 978-0-367-28031-4 : **£27.99**
Hb: 978-0-367-28030-7 : **£135**
eBook: 978-0-429-29927-8

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

2ND EDITION

The Essentials of Academic Writing for International Students



Stephen Bailey Taught English internationally and at the Univ of Nottingham & Derby Univ & has previously published with Routledge

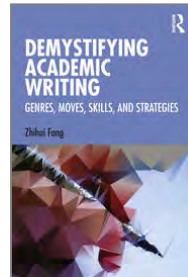
Written to help international students write essays and reports for their English-language university courses, this key title covers the essentials needed to achieve academic writing success. An easy-to-follow course that builds writing confidence and can be used both in the classroom and for self-study, 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 : 252pp
Pb: 978-1-032-72170-5 : **£21.99**
Hb: 978-1-032-72173-6 : **£145**
eBook: 978-1-032-72172-9

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

Demystifying Academic Writing

Genres, Moves, Skills, and Strategies



Zhihui Fang

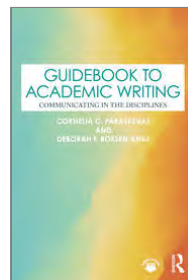
Accessible and informative, this book is designed to enhance the capacity of graduate and undergraduate students, as well as early career scholars, to write for academic purposes. Fang describes the key genres and types of academic writing, explains common rhetorical moves, offers linguistic strategies 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 : 286pp
Pb: 978-0-367-65354-5 : **£38.99**
Hb: 978-0-367-67508-0 : **£135**
eBook: 978-1-003-13161-8

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

Guidebook to Academic Writing

Communicating in the Disciplines



Cornelia C. Paraskevas, Deborah F. Rossen-Kniill

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.

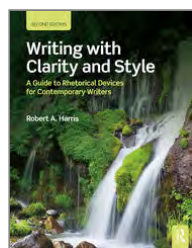
Routledge
July 2024 : 240pp
Pb: 978-1-032-48470-9 : **£37.99**
Hb: 978-1-032-48472-3 : **£145**
eBook: 978-1-003-38924-8

* For full contents and more information, visit: www.routledge.com/9781032484709

2ND EDITION

Writing with Clarity and Style

A Guide to Rhetorical Devices for Contemporary Writers

**Robert 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.

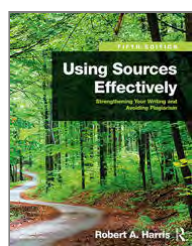
Routledge
December 2017 : 232pp
Pb: 978-1-138-56009-3 : **£36.99**
Hb: 978-1-138-56010-9 : **£135**
eBook: 978-0-203-71204-7

* For full contents and more information, visit: www.routledge.com/9781138560093

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 : 210pp
Pb: 978-1-138-28968-0 : **£54.99**
Hb: 978-1-138-28966-6 : **£165**
eBook: 978-1-315-26706-7

* For full contents and more information, visit: www.routledge.com/9781138289680

2ND EDITION

Renovating Your Writing

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

**Richard Kallan**

Renovating Your Writing outlines the principles of effective composition by focusing on the essential skill set and mindset every successful writer must possess. Now in its second edition, this novel text provides readers with unique strategies for crafting and revising their writing, whether for school, work, or play. The new edition emphasizes, in particular, the importance of the writer embracing a rhetorical perspective, distinguishing between formal and social media compositional styles, and appreciating the effort needed to produce clear, concise, and compelling messages.

Routledge
July 2017 : 190pp
Pb: 978-1-138-72677-2 : **£28.99**
Hb: 978-1-138-72676-5 : **£135**
eBook: 978-1-315-18660-3

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

Clarity and Coherence in Academic Writing

Using Language as a Resource

**David Nunan , Julie Choi** University of Melbourne, Australia

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 : 224pp
Pb: 978-1-032-01382-4 : **£26.99**
Hb: 978-1-032-01559-0 : **£125**
eBook: 978-1-003-17909-2

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

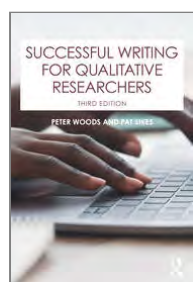
How to Write Qualitative Research**Marcus B. Weaver-Hightower** University of North Dakota, USA

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 : 282pp
Pb: 978-1-138-06631-1 : **£39.99**
Hb: 978-1-138-06630-4 : **£135**
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.

Routledge
March 2022 : 190pp
Pb: 978-0-367-69823-2 : **£27.99**
Hb: 978-0-367-69822-5 : **£135**
eBook: 978-1-003-14340-6

* 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 California State University, Northridge, USA, **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.

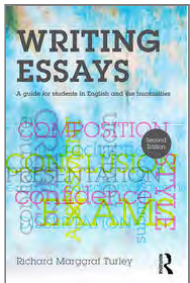
Routledge
October 2023 : 196pp
Pb: 978-1-032-13680-6 : **£56.99**
Hb: 978-1-032-13678-3 : **£135**
eBook: 978-1-003-23041-0

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

2ND EDITION

Writing Essays

A guide for students in English and the humanities



Richard Marggraf Turley Aberystwyth University, Wales.

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 : 158pp
Pb: 978-1-138-91669-2 : **£19.99**
Hb: 978-1-138-91668-5 : **£135**
eBook: 978-1-315-68944-9

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

8TH EDITION

Writing Literature Reviews

A Guide for Students of the Social and Behavioral Sciences



Melisa C. Galvan California State University, Northridge, USA, **Jose L. Galvan** Professor Emeritus, California State University, Los Angeles.

Writing Literature Reviews provides students with practical guidelines for the complex process of writing literature reviews for course projects, theses or dissertations, and research manuscripts for publication. It is ideal for use in research methods courses, thesis/dissertation preparation courses, research seminars where a literature review is expected as a culminating activity, or any course in which the instructor needs to cover the vital components necessary to prepare a literature review for a variety of audiences. The book is supported by online materials including self-test quizzes for students, and lecture slides for instructors.

Routledge
November 2024 : 288pp
Pb: 978-1-032-32868-3 : **£62.99**
Hb: 978-1-032-32862-1 : **£180**
eBook: 978-1-003-31709-8

* For full contents and more information, visit: www.routledge.com/9781032328683

Writing Using Sources for Academic Purposes

Theory, Research and Practice



Rosemary Wette

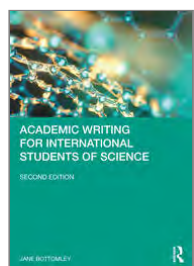
Writing Using Sources for Academic Purposes: Theory, Research and Practice provides research-based information about key components of source-based writing, and the challenges it presents for novices.

Routledge
December 2020 : 164pp
Pb: 978-0-367-17592-4 : **£37.99**
Hb: 978-0-367-17590-0 : **£135**
eBook: 978-0-429-05751-9

* For full contents and more information, visit: www.routledge.com/9780367175924

2ND EDITION

Academic Writing for International Students of Science



Jane Bottomley University of Manchester

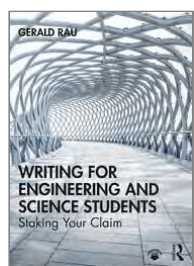
This second edition is an accessible companion designed to help science and technology students develop the knowledge, skills and strategies needed to produce clear and coherent academic writing in their university assignments. Using authentic texts to explore the nature of scientific writing, the book 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 : 220pp
Pb: 978-0-367-63272-4 : **£27.99**
Hb: 978-0-367-63271-7 : **£135**
eBook: 978-1-003-11857-2

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

Writing for Engineering and Science Students

Staking Your Claim



Gerald Rau

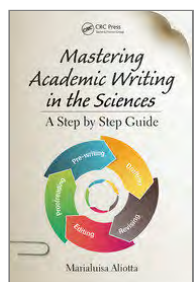
Drawing on his extensive experience of teaching international students, Gerald A. Rau provides a clear "argument structure" for students to follow when undertaking both academic and technical writing. This is the first book to make clear the different structures required for engineering versus scientific 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 : 324pp
Pb: 978-1-138-38825-3 : **£36.99**
Hb: 978-1-138-38824-6 : **£135**
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

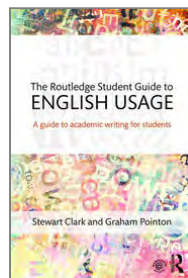
This book provides a comprehensive and coherent step-by-step guide to writing in scientific academic disciplines. It is an invaluable resource for those working on a PhD thesis, research paper, dissertation, or report. Writing these documents can be a long and arduous experience for students and their 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 : 200pp
Pb: 978-1-498-70147-1 : **£47.99**
Hb: 978-1-138-74288-8 : **£120**
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 Norwegian University of Science and Technology, **Graham Pointon**

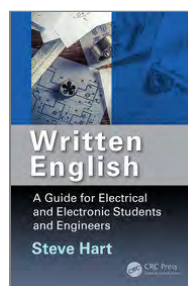
The Routledge Student Guide to English Usage is an authoritative A-Z guide to key aspects of English usage. Covering approximately 4000 carefully selected words, the authors focus on groups of confusable words that sound alike, look alike or are frequently mixed up. Examples of good usage are drawn from 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 : 402pp
Pb: 978-1-138-93359-0 : **£37.99**
Hb: 978-1-138-93358-3 : **£135**
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 English Language Editor and Resource Writer, Cambridge, UK

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.

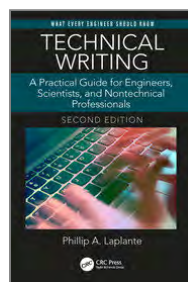
CRC Press
December 2015 : 216pp
Pb: 978-1-498-73962-7 : **£37.99**
Hb: 978-1-138-42241-4 : **£180**
eBook: 978-1-315-21412-2

* 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



Philip A. Laplante The Pennsylvania State University, Malvern, USA

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.

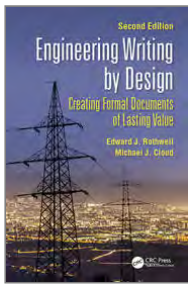
CRC Press
August 2018 : 300pp
Pb: 978-1-138-62810-6 : **£45.99**
Hb: 978-1-138-60696-8 : **£145**
eBook: 978-0-429-46739-4

* 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 : 257pp

Pb: 978-0-367-34754-3 : **£49.99**

Hb: 978-0-367-89682-9 : **£105**

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 University of Auckland, New Zealand,
Margaret J. Robertson La Trobe University, Australia

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 : 136pp

Pb: 978-1-032-34699-1 : **£26.99**

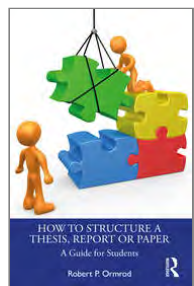
Hb: 978-1-032-34700-4 : **£135**

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 : 130pp

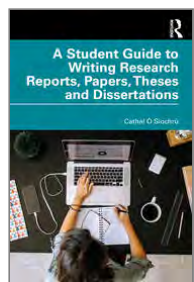
Pb: 978-1-032-36946-4 : **£17.99**

Hb: 978-1-032-36948-8 : **£125**

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 : 234pp

Pb: 978-0-367-62104-9 : **£19.99**

Hb: 978-0-367-62103-2 : **£125**

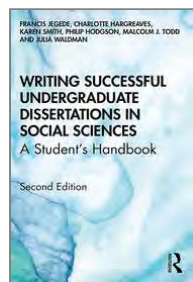
eBook: 978-1-003-10796-5

* 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 J. 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 : 240pp

Pb: 978-0-367-25525-1 : **£22.99**

Hb: 978-0-367-25523-7 : **£135**

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 University of Exeter, UK.

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 : 200pp

Pb: 978-1-032-14967-7 : **£33.99**

Hb: 978-1-032-14966-0 : **£125**

eBook: 978-1-003-24199-7

* 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 : 134pp

Pb: 978-0-367-17458-3 : **£17.99**

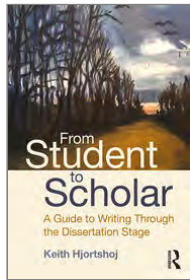
Hb: 978-0-367-17457-6 : **£120**

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 John S. Knight Writing Program, Cornell University

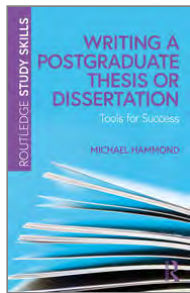
From Student to Scholar guides graduate students through the "hidden" developmental transition required in writing a dissertation and moving beyond, to become a successful scholar. Identifying common rhetorical challenges across disciplines, author Hjortshoj explains how to accommodate evolving audiences, 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 : 204pp
Pb: 978-1-138-56944-7 : **£45.99**
Hb: 978-1-138-56942-3 : **£135**
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 : 172pp
Pb: 978-0-367-75282-8 : **£18.99**
Hb: 978-0-367-75281-1 : **£135**
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

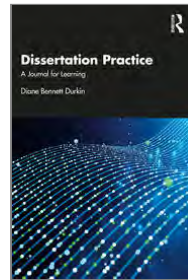
This fully updated edition is the guide for non-native speakers writing a thesis or dissertation in English. It explicitly unpacks academic writing, using accessible language and practical examples and discusses the issues that are crucial to success. These include: understanding the setting and purpose, 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 : 248pp
Pb: 978-1-138-04870-6 : **£28.99**
Hb: 978-1-138-04869-0 : **£125**
eBook: 978-1-315-17002-2

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

Dissertation Practice

A Journal for Learning



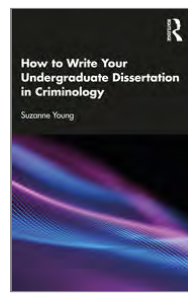
Diane Bennett Durkin

Dissertation Practice: A Journal for Learning is an interactive resource that promotes journaling to engender key dissertation practices, through activities and exercises. It is rooted in the view that students can use journaling to promote thought, and that the privacy of journal entries ensures comfort and familiarity. This personal context, along with the book's open prompts, allows students to engage in extended and alternative thinking. This is an essential resource for students in Ph.D and Ed.D programs in the social sciences and education who are using qualitative, quantitative, and mixed methods.

Routledge
October 2024 : 198pp
Pb: 978-1-032-85800-5 : **£24.99**
Hb: 978-1-032-85804-3 : **£135**
eBook: 978-1-003-51990-4

* For full contents and more information, visit: www.routledge.com/9781032858005

How to Write Your Undergraduate Dissertation in Criminology



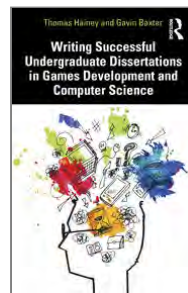
Suzanne Young

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 : 146pp
Pb: 978-0-367-85999-2 : **£22.99**
Hb: 978-0-367-85998-5 : **£135**
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 School of Computing, Engineering and Physical Sciences, University of the West of Scotland,
Gavin Baxter

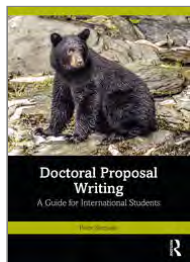
Writing a dissertation in the final year at university can be a daunting task, but particularly if the degree is practically oriented and implementation-based. This book provides a concise guide to producing a dissertation in Computer Science, Software Engineering or Games Development degrees with research 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 : 304pp
Pb: 978-0-367-51708-3 : **£19.99**
Hb: 978-0-367-51707-6 : **£125**
eBook: 978-1-003-05488-7

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

Doctoral Proposal Writing

A Guide for International Students



Peter Samuels

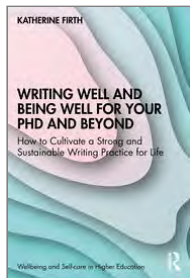
This book is an essential guide for current and prospective international doctoral students wishing to apply and study for a PhD in the UK, and other countries where courses are conducted in English. The book supports students in choosing a suitable research topic and writing an effective proposal for investigating this topic across a range of forms of doctoral research, across several disciplines, with an emphasis on international students and students with English as an additional language.

Routledge
October 2024 : 138pp
Pb: 978-1-032-56193-6 : **£26.99**
Hb: 978-1-032-56192-9 : **£145**
eBook: 978-1-003-43434-4

* For full contents and more information, visit: www.routledge.com/9781032561936

Writing Well and Being Well for Your PhD and Beyond

How to Cultivate a Strong and Sustainable Writing Practice for Life



Katherine Firth University of Melbourne, Australia

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 : 200pp
Pb: 978-1-032-31081-7 : **£21.99**
Hb: 978-1-032-31082-4 : **£135**
eBook: 978-1-003-30794-5

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

Your PhD Survival Guide

Planning, Writing, and Succeeding in Your Final Year



Katherine Firth University of Melbourne, Australia, **Liam Connell**, **Peta Freestone**

Series: Insider Guides to Success in Academia

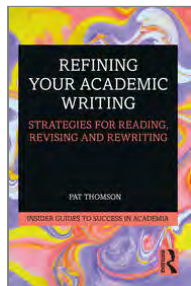
Accessible, insightful and a must-have toolkit for all doctoral students, the founders of the 'Thesis Boot Camp' intensive writing programme show how to survive and thrive through the challenging final year of writing and submitting a thesis. Drawing on an understanding of the intellectual, professional, practical and personal elements of the doctorate to help readers gain insight into what it means to finish a PhD and how to get there, this book covers common challenges and ways to resolve them. Written for students in all disciplines, and relevant to university systems around the world, this unique book expertly guides students through the final 6–12 months of the thesis.

Routledge
December 2020 : 222pp
Pb: 978-0-367-36184-6 : **£19.99**
Hb: 978-0-367-36183-9 : **£135**
eBook: 978-0-429-34439-8

* For full contents and more information, visit: www.routledge.com/9780367361846

Refining Your Academic Writing

Strategies for Reading, Revising and Rewriting



Pat Thomson

Series: Insider Guides to Success in Academia

This book will help you complete your writing project and provides a reading, revising, and rewriting repertoire that you can adapt and add to. It offers ways to think about revision and a basic tool kit which will help you to identify what needs your attention and why. This accessible book draws on and extends some of the most heavily used posts on Thomson's popular academic writing blog Patter, as well as tried and tested writing workshops. Written with a light touch, this is ideal reading for doctoral and early career researchers, this book provides strategies needed to support the writing revision process.

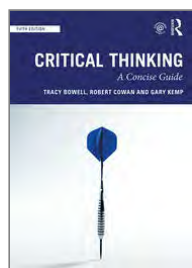
Routledge
December 2022 : 236pp
Pb: 978-0-367-46876-7 : **£18.99**
Hb: 978-0-367-46875-0 : **£125**
eBook: 978-1-003-03168-0

* For full contents and more information, visit: www.routledge.com/9780367468767

5TH EDITION

Critical Thinking

A Concise Guide



Tracy Bowell University of Waikato, New Zealand,
Robert Cowan, **Gary Kemp** University of Glasgow, UK

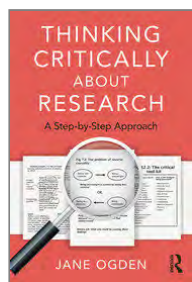
We are frequently confronted with arguments. Critical Thinking equips students with the concepts and techniques used in the analysis and assessment of arguments whatever the context. Through precise and accessible discussion, this book provides the tools to become a successful critical thinker, who can 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 : 348pp
 Pb: 978-0-815-37143-4 : **£35.99**
 Hb: 978-0-815-37142-7 : **£135**
 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.

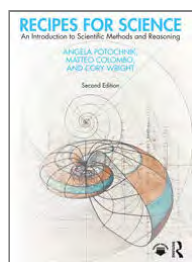
Routledge
 December 2018 : 176pp
 Pb: 978-0-367-00020-2 : **£36.99**
 Hb: 978-0-367-00019-6 : **£135**
 eBook: 978-0-429-44496-8

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

2ND EDITION

Recipes for Science

An Introduction to Scientific Methods and Reasoning



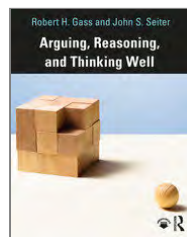
Angela Potochnik, **Matteo Colombo** Tilburg University, The Netherlands, **Cory Wright**

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
 April 2024 : 378pp
 Pb: 978-1-032-29096-6 : **£42.99**
 Hb: 978-1-032-29097-3 : **£175**
 eBook: 978-1-003-30000-7

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

Arguing, Reasoning, and Thinking Well



Robert Gass, **John Seiter**

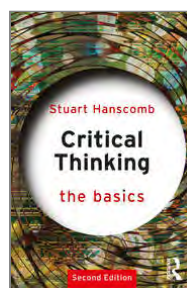
Arguing, Reasoning, and Thinking Well offers an engaging and accessible introduction to argumentation and critical thinking. Authors Gass and Seiter, renowned for their friendly writing style, include real-world examples, hypothetical dialogues, and editorial cartoons to invite readers in. The text includes 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 : 280pp
 Pb: 978-0-815-37433-6 : **£76.99**
 Hb: 978-0-815-37432-9 : **£155**
 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 University of Glasgow, UK

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.

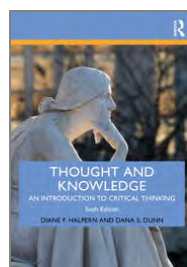
Routledge
 June 2023 : 286pp
 Pb: 978-1-032-16299-7 : **£18.99**
 Hb: 978-1-032-16301-7 : **£130**
 eBook: 978-1-003-24794-4

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

6TH EDITION

Thought and Knowledge

An Introduction to Critical Thinking



Diane F. Halpern Claremont McKenna College, USA,
Dana S. Dunn Moravian College, USA

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.

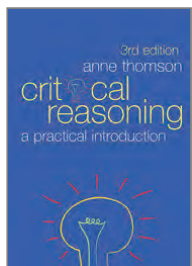
Routledge
 October 2022 : 428pp
 Pb: 978-1-138-65517-1 : **£61.99**
 Hb: 978-1-138-65516-4 : **£195**
 eBook: 978-1-032-32316-9 : **£61.99**

* 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.

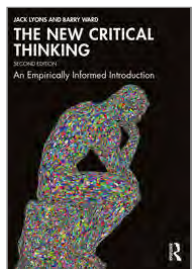
Routledge
September 2008 : 256pp
Pb: 978-0-415-44587-0 : **£36.99**
Hb: 978-0-415-44586-3 : **£135**
eBook: 978-0-203-87099-0

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2ND EDITION

The New Critical Thinking

An Empirically Informed Introduction

**Jack Lyons, Barry Ward**

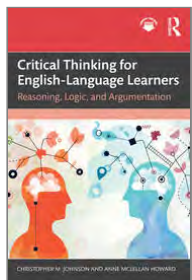
This highly innovative text aims to improve real-world critical thinking, incorporating insights from epistemology and philosophy of science to formulate best practices for assessing information sources and circumnavigate our natural intellectual blind spots. The book covers introductory logic in a way 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 : 412pp
Pb: 978-1-032-31728-1 : **£69.99**
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eBook: 978-1-003-31102-7

* For full contents and more information, visit: www.routledge.com/9781032317281

Critical Thinking for English-Language Learners

Reasoning, Logic, and Argumentation

**Christopher M. Johnson, Anne McLellan Howard**

Critical Thinking for English-Language Learners is an accessible introduction to critical thinking and the use of informal logic for learners of English. Critical thinking skills are key to helping students learn how to reason in English. By developing informal logic skills, students can develop their critical thinking abilities to better assess why different types of arguments are successful or unsuccessful. Providing students with key skills to make and critique arguments in English, this book is a key resource for beginning and intermediate learners of English studying Critical Thinking, English for Academic Purposes, and Introduction to Philosophy.

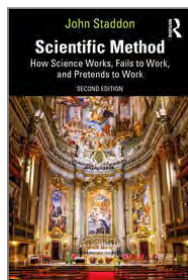
Routledge
February 2025 : 250pp
Pb: 978-1-032-75247-1 : **£39.99**
Hb: 978-1-032-75248-8 : **£145**

* For full contents and more information, visit: www.routledge.com/9781032752471

2ND EDITION

Scientific Method

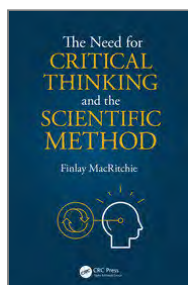
How Science Works, Fails to Work, and Pretends to Work

**John Staddon** Duke University, USA

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 : 226pp
Pb: 978-1-032-65771-4 : **£31.99**
Hb: 978-1-032-68389-8 : **£145**
eBook: 978-1-032-68387-4

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

The Need for Critical Thinking and the Scientific Method**Finlay MacRitchie** Kansas State University, Manhattan, USA

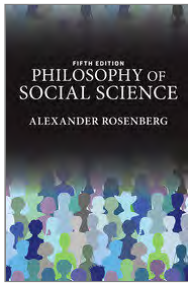
The book exposes many of the misunderstandings about the scientific method and its application to critical thinking. It argues for a better understanding of the scientific method and for nurturing critical thinking in the community. This knowledge helps the reader to analyze issues more objectively, 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 : 152pp
Pb: 978-0-815-36775-8 : **£43.99**
Hb: 978-0-815-36815-1 : **£145**
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 : 360pp

Pb: 978-0-813-34973-2 : **£43.99**

Hb: 978-0-367-09807-0 : **£135**

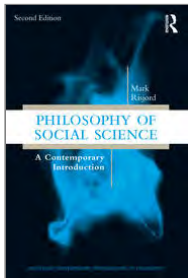
eBook: 978-0-429-49484-0

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

2ND EDITION

Philosophy of Social Science

A Contemporary Introduction



Mark Risjord Emory University, USA

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 : 336pp

Pb: 978-1-032-07586-0 : **£39.99**

Hb: 978-1-032-07587-7 : **£180**

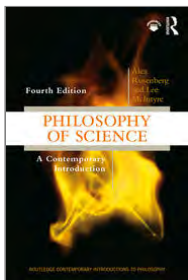
eBook: 978-1-003-20779-5

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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 : 308pp

Pb: 978-1-138-33151-8 : **£43.99**

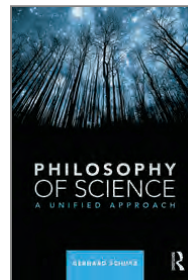
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eBook: 978-0-429-44726-6

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Philosophy of Science

A Unified Approach



Gerhard Schurz Dusseldorf University, Germany

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 : 480pp

Pb: 978-0-415-82936-6 : **£47.99**

Hb: 978-0-415-82934-2 : **£135**

eBook: 978-0-203-36627-1

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Doing Academic Research

A Practical Guide to Research Methods and Analysis



Ted Gournelos

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.

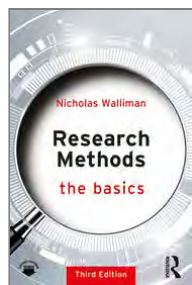
Routledge
May 2019 : 208pp
Pb: 978-0-367-20793-9 : **£17.99**
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Nicholas Walliman Oxford Brookes University, UK

Series: The Basics

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Routledge
December 2021 : 280pp
Pb: 978-0-367-69408-1 : **£18.99**
Hb: 978-0-367-69407-4 : **£130**
eBook: 978-1-003-14169-3

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Research Methods

The Key Concepts



Michael Hammond University of Warwick, UK, **Jerry Wellington** University of Sheffield, UK

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Routledge
September 2020 : 232pp
Pb: 978-0-367-17874-1 : **£19.99**
Hb: 978-0-367-17873-4 : **£96.99**
eBook: 978-0-429-05816-5

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The Researcher's Toolkit

The Complete Guide to Practitioner Research



David Wilkinson Research Fellow within the Work-Based Learning Unit at the University of Leeds, **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 : 178pp
Pb: 978-1-032-01810-2 : **£26.99**
Hb: 978-1-032-01809-6 : **£135**
eBook: 978-1-003-18015-9

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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 : 424pp
Pb: 978-1-138-48680-5 : **£25.99**
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eBook: 978-1-351-04467-7

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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.

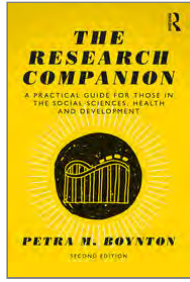
Routledge
June 2023 : 528pp
Pb: 978-0-367-55118-6 : **£91.99**
Hb: 978-0-367-55117-9 : **£240**
eBook: 978-1-003-09204-9

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2ND EDITION

The Research Companion

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



Petra M. Boynton University College London, UK

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 : 300pp
Pb: 978-1-138-91761-3 : £47.99
Hb: 978-1-138-91760-6 : £135
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 : 72pp
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eBook: 978-1-003-34892-4

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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 : 176pp
Pb: 978-0-367-25037-9 : £25.99
Hb: 978-0-367-25036-2 : £120
eBook: 978-0-429-28566-0

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5TH EDITION

Principles of Research in Behavioral Science



Mary E. Kite, Bernard E. Whitley, Jr Ball State University, USA

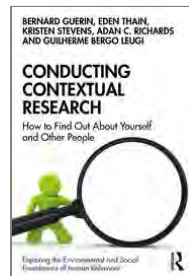
Now in its fifth edition, this invaluable textbook provides a comprehensive overview of research methods in the behavioral sciences, emphasizing the conceptual challenges inherent in scientific inquiry. Organized to mirror each stage of the research process, this text guides readers through the process, from formulating questions, to collecting data, to interpreting results. Ideal for advanced undergraduate, graduate, and post-graduate students seeking a strong foundation in research methods, it also serves as a valuable reference for seasoned researchers looking to refresh their knowledge.

Routledge
June 2025 : 840pp
Hb: 978-1-032-72058-6 : £120
IEPB: 978-1-032-72059-3 : £45.99
eBook: 978-1-315-45008-7

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Conducting Contextual Research

How to Find Out About Yourself and Other People



Bernard Guerin University of South Australia, Australia,
Eden Thain, Kristen Stevens, Adan C. Richards, Guilherme B ergo 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.

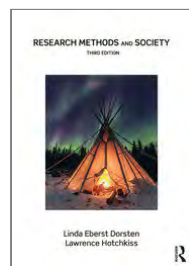
Routledge
June 2024 : 190pp
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Hb: 978-1-032-60825-9 : £135
eBook: 978-1-003-46063-3

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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 : 410pp
Pb: 978-0-815-36615-7 : £86.99
Hb: 978-0-815-36616-4 : £220
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 Fairleigh Dickson University

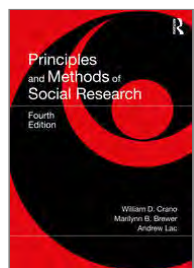
This book sharpens students' understanding of the research process and the essential methods that researchers use to perform their work on the cutting edge of the social sciences. The new edition features updated examples across the chapters, reflecting new directions within the social sciences and both 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 : 342pp
Pb: 978-1-032-20920-3 : **£38.99**
Hb: 978-1-032-21005-6 : **£135**
eBook: 978-1-003-26632-7

* For full contents and more information, visit: www.routledge.com/9781032209203

4TH EDITION

Principles and Methods of Social Research



William D. Crano Claremont Graduate University, USA,
Marilynn B. Brewer Ohio State University, USA, **Andrew Lac** Claremont Graduate University, USA

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. Applauded 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 : 486pp
Pb: 978-1-032-22240-0 : **£84.99**
Hb: 978-1-032-22241-7 : **£135**
eBook: 978-1-003-27173-4

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The Illustrated Guide to Social Science Research



Divya Sharma

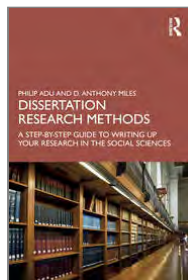
This accessible and engaging textbook helps students to get to grips with key concepts, issues, and practices in social science research through the use of fun and informative illustrations and examples.

Routledge
July 2024 : 248pp
Pb: 978-1-032-32377-0 : **£37.99**
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eBook: 978-1-003-31473-8

* 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 The National Centre for Academic and Dissertation Excellence, The Chicago School of Professional Psychology, USA, **D. Anthony Miles**

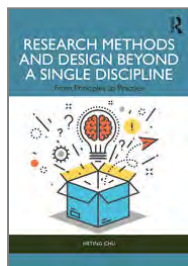
Dissertation Research Methods: A Step-by-Step Guide to Writing Up Your Research in the Social Sciences focuses specifically on methodology when planning, writing and submitting your dissertation thesis. Written by two methodology experts in the social sciences, the book provides a step-by-step guide 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 : 470pp
Pb: 978-1-032-21385-9 : **£42.99**
Hb: 978-1-032-21383-5 : **£145**
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

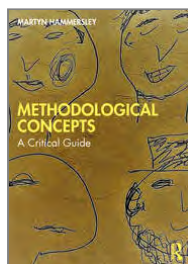
This book presents and discusses 15 research methods after an overview of each, an illustration of the research process and an examination of related topics. The focus of this book is on data collection techniques and research design. This book is essential for masters and doctoral students, and researchers 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 : 360pp
Pb: 978-0-367-89885-4 : **£58.99**
Hb: 978-0-367-89883-0 : **£145**
eBook: 978-1-003-02171-1

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

Methodological Concepts

A Critical Guide



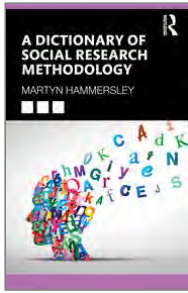
Martyn Hammersley The Open University, UK

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 : 186pp
Pb: 978-1-032-39574-6 : **£33.99**
Hb: 978-1-032-39573-9 : **£125**
eBook: 978-1-003-35035-4

* For full contents and more information, visit: www.routledge.com/9781032395746

A Dictionary of Social Research Methodology



Martyn Hammersley The Open University, UK

This accessible book offers a detailed guide to a wide range of methodological concepts, both those of a more philosophical kind and those that are more technical in character: from constructionism to critical realism, regression analysis to grounded theory, odds ratios to triangulation. Providing clear definitions for a wide range of methodological concepts from across the social sciences, this is an essential resource for all who have an interest in social research methodology.

Routledge
September 2024 : 180pp
Pb: 978-1-032-82213-6 : **£37.99**
Hb: 978-1-032-82215-0 : **£145**
eBook: 978-1-003-50350-7

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2ND EDITION

Research Design, Second Edition

Quantitative, Qualitative, Mixed Methods, Arts-Based, and Community-Based Participatory Research Approaches



Patricia Leavy

With a new chapter on the literature review, this accessible step-by-step guide to using the five major approaches to research design is now in a thoroughly revised second edition. The prior edition's user-friendly features are augmented by a new companion website with worksheets keyed to each chapter. For each approach, the text presents a template for a research proposal and explains how to conceptualize and fill in every section. Interdisciplinary research examples draw on current events and social justice issues. PowerPoints and chapter tests with answer keys are available to instructors using the book in a course.

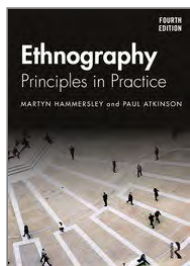
Guilford Press
January 2023 : 323pp
Pb: 978-1-462-54897-2 : **£43.99**
Hb: 978-1-462-55088-3 : **£64.99**

* For full contents and more information, visit: www.routledge.com/9781462548972

4TH EDITION

Ethnography

Principles in Practice



Martyn Hammersley The Open University, UK, **Paul Atkinson** Cardiff University, UK

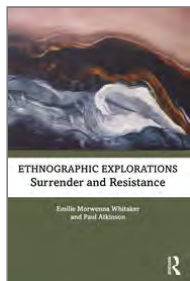
This edition has been expertly updated to reflect the important developments in digital and mobile technologies and social media. The ease with which recordings, audio or video, as well as photographs, can be produced via the use of mobile devices has opened up new tools and foci for ethnographers.

Routledge
April 2019 : 292pp
Pb: 978-1-138-50446-2 : **£39.99**
Hb: 978-1-138-50445-5 : **£150**
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 Salford University, UK, **Paul Atkinson**

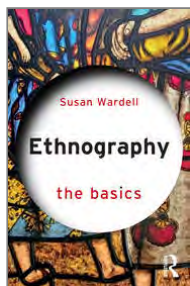
In *Ethnographic Explorations: Surrender and Resistance*, Whitaker and Atkinson, two experienced ethnographers, explore the complexities of fieldwork, analysis and writing from new perspectives. It takes the opportunity to reflect on Ethnography not just as a methodological perspective, but at a fundamental 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 : 184pp
Pb: 978-0-367-17441-5 : **£35.99**
Hb: 978-0-367-17440-8 : **£125**
eBook: 978-0-429-05680-2

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

Ethnography

The Basics



Susan Wardell

Series: The Basics

Ethnography: The Basics introduces a broad and beginner audience to ethnography, as a research methodology with diverse applications. By using everyday language, and developing a warm and inclusive tone, the book provides an accessible entry point to the topic.

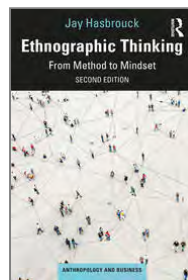
Routledge
April 2025 : 244pp
Pb: 978-1-032-52012-4 : **£18.99**
Hb: 978-1-032-51311-9 : **£130**

* For full contents and more information, visit: www.routledge.com/9781032520124

2ND EDITION

Ethnographic Thinking

From Method to Mindset



Jay Hasbrouck

Series: Anthropology and Business

This second edition of *Ethnographic Thinking: From Method to Mindset* serves as a primer for practitioners who want to apply ethnography to real-world challenges and commercial ventures. This new edition now includes a section in each chapter focusing on practical advice to help readers activate key insights in their work. This work is essential reading for managers and strategists who want to tap into the full potential that an ethnographic perspective offers. It will also be of value to students and practitioners of applied ethnography, as well as professionals who would like to optimize the value of ethnographic thinking in their organizations.

Routledge
April 2024 : 156pp
Pb: 978-1-032-46309-4 : **£38.99**
Hb: 978-1-032-46308-7 : **£145**
eBook: 978-1-003-38107-5

* For full contents and more information, visit: www.routledge.com/9781032463094

Ethnographic Research in the Social Sciences

Edited by **Madhulika Sahoo**, **S. Jeyavelu**, **Anjali Kurane**

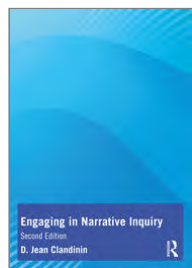
This book is an essential guide to scientifically conducting contemporary ethnographic research at undergraduate, postgraduate and doctoral levels in the social sciences, the humanities, and business studies. It addresses the methodological challenges of ethnographic research across the social sciences and highlights present time research areas, including digital ethnography, artificial intelligence, classroom pedagogy, hybrid organization and many more. A step-by-step, student friendly text, this book will be essential supplementary reading across the social sciences and the humanities, especially for those conducting fieldwork in the Global South.

Routledge India
June 2023 : 282pp
Pb: 978-1-032-49233-9 : **£38.99**
Hb: 978-1-032-48008-4 : **£145**
eBook: 978-1-003-39277-4

* For full contents and more information, visit: www.routledge.com/9781032492339

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 : 176pp

Pb: 978-1-032-14610-2 : **£39.99**

Hb: 978-1-032-14609-6 : **£135**

eBook: 978-1-003-24014-3

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

2ND EDITION

Qualitative Research

The Essential Guide to Theory and Practice



Maggi Savin-Baden Prof of Higher Education Research at Coventry University, UK, **Claire Howell Major** Prof of Higher Education at the University of Alabama, USA

The second edition of *Qualitative Research* is a one-stop resource for all those approaching qualitative research for the first time as well as those revisiting core concepts and issues. It presents a comprehensive overview of this rapidly developing field of inquiry, cleverly combined with practical, hands-on advice on how to conduct a successful qualitative study. This book is enhanced with the addition of online Instructor and Student Resources including videos, diagrams, an instructor manual, PowerPoint slides and links to further resources. This new edition is an indispensable companion and makes for ideal reading for all those involved in qualitative research worldwide.

Routledge

May 2025 : 680pp

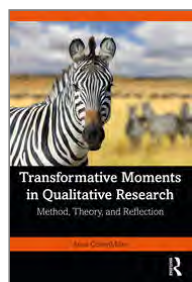
Pb: 978-1-032-77458-9 : **£42.99**

Hb: 978-1-032-77460-2 : **£145**

* For full contents and more information, visit: www.routledge.com/9781032774589

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 : 314pp

Pb: 978-1-032-38170-1 : **£39.99**

Hb: 978-1-032-38168-8 : **£135**

eBook: 978-1-003-34381-3

* 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.

Routledge

May 2023 : 328pp

Pb: 978-1-629-58327-3 : **£29.99**

Hb: 978-1-629-58326-6 : **£125**

eBook: 978-1-003-38575-2

* For full contents and more information, visit: www.routledge.com/9781629583273

2ND EDITION

Thinking with Theory in Qualitative Research



Alecia Y. Jackson Appalachian State University, USA,
Lisa A. Mazzei University of Oregon, USA

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 : 170pp

Pb: 978-1-138-95214-0 : **£39.99**

Hb: 978-1-138-95213-3 : **£135**

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 : 214pp

Pb: 978-0-367-33347-8 : **£39.99**

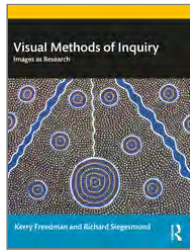
Hb: 978-0-367-33350-8 : **£135**

eBook: 978-0-429-31933-4

* 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 : 238pp

Pb: 978-0-367-25048-5 : **£35.99**

Hb: 978-0-367-25049-2 : **£135**

eBook: 978-0-429-28572-1

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2ND EDITION

Research Methods for Environmental Studies

A Social Science Approach



Mark Kanazawa Carleton College, USA

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
July 2023 : 498pp
Pb: 978-1-032-19840-8 : **£38.99**
Hb: 978-1-032-19841-5 : **£145**
eBook: 978-1-003-26111-7

* For full contents and more information, visit: www.routledge.com/9781032198408

Research Methodologies for Business Management



Vanessa Ratten La Trobe University, Australia

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 : 158pp
Pb: 978-1-032-32337-4 : **£41.99**
Hb: 978-1-032-32338-1 : **£125**
eBook: 978-1-003-31451-6

* For full contents and more information, visit: www.routledge.com/9781032323374

Researching and Analysing Business

Research Methods in Practice



Edited by **Pantea Foroudi** Middlesex University London, UK, **Charles Dennis** Middlesex Business School, UK

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 : 456pp
Pb: 978-0-367-62065-3 : **£39.99**
Hb: 978-0-367-62064-6 : **£145**
eBook: 978-1-003-10777-4

* For full contents and more information, visit: www.routledge.com/9780367620653

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 : 482pp
Pb: 978-1-032-46295-0 : **£51.99**
Hb: 978-1-032-46296-7 : **£175**
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 Pasion, 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.

Routledge
May 2024 : 368pp
Pb: 978-1-032-12387-5 : **£36.99**
Hb: 978-1-032-74496-4 : **£135**
eBook: 978-1-003-46951-3

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

3RD EDITION

Planning Research in Hospitality and Tourism



Levent Altinay Oxford Brookes University, UK,
Alexandros Paraskevas University of West of London, UK, **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 : 372pp
Pb: 978-1-032-52258-6 : **£48.99**
Hb: 978-1-032-52257-9 : **£145**
eBook: 978-1-003-40579-5

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

5TH EDITION

Statistics in Plain English

Timothy C. Urdan Santa Clara University, USA

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.

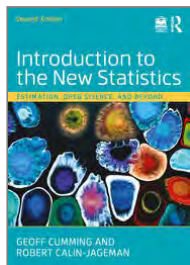
Routledge
March 2022 : 322pp
Pb: 978-0-367-34283-8 : **£33.99**
Hb: 978-0-367-34282-1 : **£175**
eBook: 978-1-032-22944-7 : **£33.99**

* 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

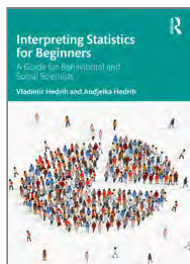
This fully revised and updated second edition is an essential introduction to inferential statistics. It is the first introductory statistics text to use an estimation approach with meta-analysis ("the new statistics") from the start and also to explain the new and exciting Open Science practices, which 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.

Routledge
March 2024 : 610pp
Pb: 978-0-367-53150-8 : **£68.99**
Hb: 978-0-367-53149-2 : **£210**
eBook: 978-1-032-68947-0

* 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.

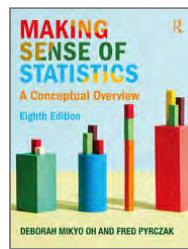
Routledge
February 2022 : 204pp
Pb: 978-0-367-61852-0 : **£35.99**
Hb: 978-0-367-62051-6 : **£135**
eBook: 978-1-003-10771-2

* 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.

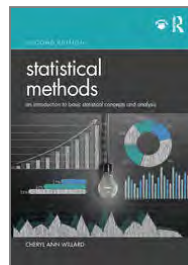
Routledge
June 2023 : 284pp
Pb: 978-1-032-28964-9 : **£49.99**
Hb: 978-1-032-28962-5 : **£135**
eBook: 978-1-003-29935-6

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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 : 364pp
Pb: 978-0-367-20352-8 : **£54.99**
Hb: 978-0-367-20351-1 : **£175**
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 University of North Carolina, USA, **Zealure C. Holcomb**

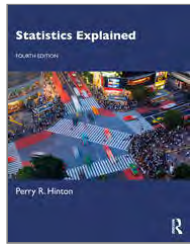
Interpreting Basic Statistics gives students valuable practice in interpreting statistical reporting as it actually appears in peer-reviewed journals. The questions in each exercise are divided into two parts: (1) Factual Questions and (2) Questions for Discussion. The factual questions require careful 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 : 258pp
Pb: 978-0-367-56197-0 : **£58.99**
Hb: 978-0-367-56051-5 : **£180**
eBook: 978-1-003-09676-4

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

4TH EDITION

Statistics Explained



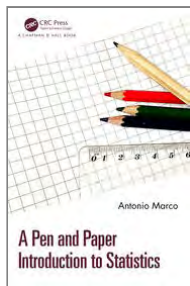
Perry R. Hinton Warwick University, UK

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
October 2024 : 356pp
Pb: 978-0-367-36635-3 : **£37.99**
Hb: 978-0-367-36638-4 : **£135**
eBook: 978-0-429-35326-0

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

A Pen and Paper Introduction to Statistics



Antonio Marco University of Essex, U.K.

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.

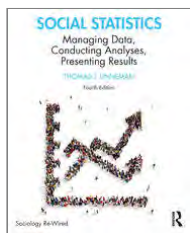
Chapman & Hall
December 2023 : 160pp
Pb: 978-1-032-50510-7 : **£33.99**
Hb: 978-1-032-50511-4 : **£97.99**
eBook: 978-1-003-39882-0

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

4TH EDITION

Social Statistics

Managing Data, Conducting Analyses, Presenting Results



Thomas J. Linneman The College of William and Mary, USA

Series: Sociology Re-Wired

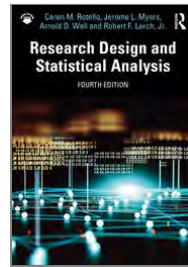
With a clear, engaging writing style and fascinating examples using a variety of real data, this text covers the contemporary statistical techniques that students will encounter in the world of social research. It covers these techniques at an introductory level and carefully guides students through 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 : 678pp
Pb: 978-1-032-11528-3 : **£96.99**
Hb: 978-1-032-11623-5 : **£180**
eBook: 978-1-003-22077-0

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

4TH EDITION

Research Design and Statistical Analysis



Caren M. Rotello, Jerome L. Myers, Arnold D. Well, Robert F. Lorch, Jr. University of Kentucky, Lexington, USA

This fully updated fourth edition of Research Design and Statistical Analysis provides comprehensive coverage of the design principles and statistical concepts necessary to make sense of real data. Incorporating the analyses of both experimental and observational data, and with coverage that is broad and deep enough to serve a two-semester sequence, this textbook is suitable for researchers, graduate students and advanced undergraduates in psychology, education, and other behavioral, social, and health sciences. The book is supported by a robust set of digital resources, including data files and exercises from the book in an Excel format, R scripts, and a solutions manual.

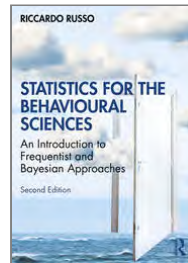
Routledge
January 2025 : 834pp
Pb: 978-1-032-89728-8 : **£76.99**
Hb: 978-1-032-59210-7 : **£145**
eBook: 978-1-003-45355-0

* For full contents and more information, visit: www.routledge.com/9781032897288

2ND EDITION

Statistics for the Behavioural Sciences

An Introduction to Frequentist and Bayesian Approaches



Riccardo Russo

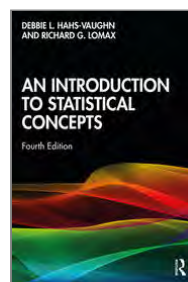
This accessible textbook is for those without a mathematical background (just some notions of basic algebra are sufficient) and provides a comprehensive introduction to all topics covered in introductory behavioural science statistics courses. This timely and highly readable text will be invaluable to 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 : 330pp
Pb: 978-1-138-71150-1 : **£35.99**
Hb: 978-1-138-71148-8 : **£135**
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 University of Central Florida, USA, **Richard Lomax** The Ohio State University, USA

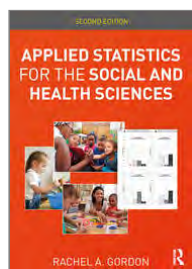
This comprehensive, flexible text is used in both one- and two-semester courses to review introductory through intermediate statistics. Instructors select the topics that are most appropriate for their course. Its conceptual approach helps students more easily understand the concepts and interpret SPSS 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 : 1186pp
Hb: 978-1-138-65055-8 : **£115**
eBook: 978-1-315-62435-8

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

2ND EDITION

Applied Statistics for the Social and Health Sciences



Rachel A. Gordon Northern Illinois University, USA

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 : 800pp

Pb: 978-1-032-32344-2 : **£43.99**

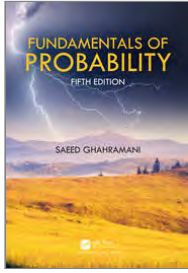
Hb: 978-1-032-32343-5 : **£145**

eBook: 978-1-003-31453-0

* For full contents and more information, visit: www.routledge.com/9781032323442

5TH EDITION

Fundamentals of Probability



Saeed Ghahramani Western New England University,
Springfield, Massachusetts, USA

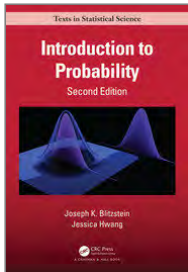
This one- or two-term calculus-based basic probability text is written for majors in mathematics, physical sciences, engineering, statistics, actuarial science, business and finance, operations research, and computer science. It presents probability in a natural way: through interesting and instructive 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 : 700pp
Hb: 978-1-032-36608-1 : £120
IEPB: 978-1-032-80353-1 : £49.99
eBook: 978-1-003-33289-3

* For full contents and more information, visit: www.routledge.com/9781032366081

2ND EDITION

Introduction to Probability, Second Edition



Joseph K. Blitzstein Harvard University, Cambridge,
Massachusetts, USA, **Jessica Hwang** Stanford University,
California, USA

Series: Chapman & Hall/CRC Texts in Statistical Science

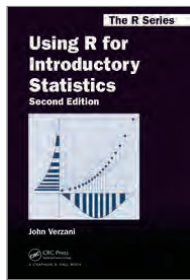
Undergraduate probability book that assumes one-semester of calculus. One key is the emphasis on "stories" for the probability distributions (which I mean in both an intuitive and technical sense): there are a dozen or so key distributions (Normal, Binomial, Poisson, etc.) that are incredibly widely-used in statistics, but a lot of books just write down formulas for them without explaining clearly why these particular distributions are so important, or how they are all connected. Each of these distributions has a "story" (a natural application where it arises), and thinking about stories makes the distributions easier to remember, understand, and work with.

Chapman & Hall
February 2019 : 634pp
Hb: 978-1-138-36991-7 : £68.99
eBook: 978-0-429-42835-7

* For full contents and more information, visit: www.routledge.com/9781138369917

2ND EDITION

Using R for Introductory Statistics



John Verzani CUNY/College of Staten Island, New York, USA

Series: Chapman & Hall/CRC The R Series

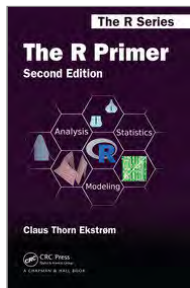
The second edition of a bestselling textbook, *Using R for Introductory Statistics* guides students through the basics of R, helping them overcome the sometimes steep learning curve. The author does this by breaking the material down into small, task-oriented steps. The second edition maintains the features 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 : 518pp
Hb: 978-1-466-59073-1 : **£61.99**
eBook: 978-1-315-37308-9

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

2ND EDITION

R Primer



Claus Thorn Ekström University of Copenhagen, Denmark

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.

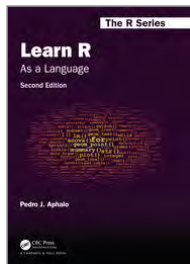
Chapman & Hall
March 2017 : 426pp
Pb: 978-1-138-63197-7 : **£53.99**
Hb: 978-1-498-77255-6 : **£110**
eBook: 978-1-315-15441-1

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

2ND EDITION

Learn R

As a Language



Pedro J. Aphalo University of Helsinki, Faculty of Biological and Environmental Sciences

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.

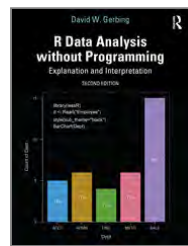
Chapman & Hall
April 2024 : 466pp
Pb: 978-1-032-51699-8 : **£63.99**
Hb: 978-1-032-51843-5 : **£165**
eBook: 978-1-003-40418-7

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

2ND EDITION

R Data Analysis without Programming

Explanation and Interpretation



David W. Gerbing Portland State University, USA

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.

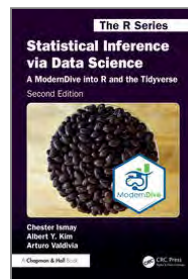
Routledge
January 2023 : 378pp
Pb: 978-1-032-24403-7 : **£49.99**
Hb: 978-1-032-24402-0 : **£125**
eBook: 978-1-003-27841-2

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

2ND EDITION

Statistical Inference via Data Science

A ModernDive into R and the Tidyverse



Chester Ismay DataCamp, **Albert Y. Kim**, **Arturo Valdivia**

Series: Chapman & Hall/CRC The R Series

Offers a comprehensive guide to learning statistical inference with data science tools widely used in industry, academia, and government. Ideal for those new to statistics or looking to deepen their knowledge, this edition provides a clear entry point into data science and modern statistical methods.

Chapman & Hall
March 2025 : 478pp
Pb: 978-1-032-70837-9 : **£64.99**
Hb: 978-1-032-72451-5 : **£160**

* For full contents and more information, visit: www.routledge.com/9781032708379

3RD EDITION

SPSS Explained

Perry R. Hinton Warwick University, UK, **Isabella McMurray** University of Bedfordshire, UK, **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.

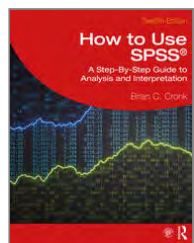
Routledge
September 2023 : 386pp
Pb: 978-0-367-36699-5 : **£49.99**
Hb: 978-0-367-36698-8 : **£135**
eBook: 978-0-429-35086-3

* 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.

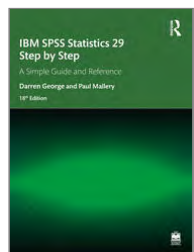
Routledge
January 2024 : 252pp
Pb: 978-1-032-58235-1 : **£61.99**
Hb: 978-1-032-58519-2 : **£145**
eBook: 978-1-003-45046-7

* 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.

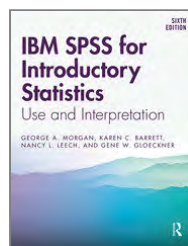
Routledge
March 2024 : 440pp
Pb: 978-1-032-62193-7 : **£71.99**
Hb: 978-1-032-62212-5 : **£220**
eBook: 978-1-032-62215-6

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

6TH EDITION

IBM SPSS for Introductory Statistics

Use and Interpretation, Sixth Edition

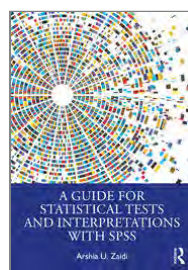


George A. Morgan Colorado State University, USA, **Karen C. Barrett** Colorado State University, USA, **Nancy L. Leech** University of Colorado at Denver, USA, **Gene W. Gloeckner** Colorado State University, USA

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 : 266pp
Pb: 978-1-138-57821-0 : **£39.99**
Hb: 978-1-138-57822-7 : **£155**
eBook: 978-0-429-28765-7

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

A Guide for Statistical Tests and Interpretations with SPSS

Arshia U. Zaidi

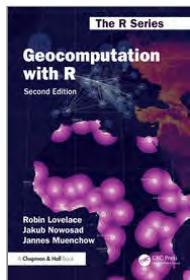
A Guide for Statistical Tests and Interpretations with SPSS is designed for students taking basic and advanced courses in statistics, taking an integrative and practical approach to learning statistics. It guides students through navigating SPSS outputs and writing quantitatively, dealing with technical and substantive interpretations without resorting to complex mathematical formulae. With SPSS screenshots and step-by-step advice, this book will be useful for all undergraduate and graduate students in the social sciences and humanities, as a supplemental textbook to provide practical guidance on moving through all steps of statistical testing and analysis.

Routledge
October 2024 : 244pp
Pb: 978-1-032-10210-8 : **£45.99**
Hb: 978-1-032-10520-8 : **£130**
eBook: 978-1-003-21569-1

* For full contents and more information, visit: www.routledge.com/9781032102108

2ND EDITION

Geocomputation with R



Robin Lovelace University of Leeds, UK, **Jakub Nowosad**, **Jannes Muenchow** Friedrich Schiller University, Jena, Germany

Series: Chapman & Hall/CRC The R Series

Geocomputation with R is for people who want to analyze, visualize, and model geographic data with open source software. The book provides a foundation for learning how to solve a wide range of geographic data analysis problems in a reproducible, and therefore scientifically sound and scalable way. The second edition features numerous updates, including the adoption of the high-performance terra package for all raster data processing, detailed coverage of the spherical geometry engine s2, updated information on coordinate reference systems and new content on openEO, STAC, COG, and gdalr. The book equips you with the knowledge and skills to tackle a wide range of issues.

Chapman & Hall
February 2025 : 424pp
Pb: 978-1-032-24888-2 : **£55.99**
Hb: 978-1-032-22979-9 : **£150**

* For full contents and more information, visit: www.routledge.com/9781032248882

Geocomputation with Python



Michael Dorman, **Anita Graser**, **Jakub Nowosad**, **Robin Lovelace** University of Leeds, UK

Series: Chapman & Hall/CRC The Python Series

Geocomputation with Python is a comprehensive resource for working with geographic data with the most popular programming language in the world. The book gives an overview of Python's capabilities for spatial data analysis, as well as dozens of worked-through examples covering the entire range of standard GIS operations. Another unique feature is that this book is part of a wider community. Geocomputation with Python is a sister project of Geocomputation with R (Lovelace, Nowosad, and Muenchow 2019), a book on geographic data analysis, visualization, and modeling using the R programming language that has numerous contributors and an active community.

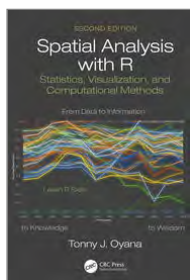
Chapman & Hall
February 2025 : 344pp
Pb: 978-1-032-46065-9 : **£55.99**
Hb: 978-1-032-45891-5 : **£150**
eBook: 978-1-003-37991-1

* For full contents and more information, visit: www.routledge.com/9781032460659

2ND EDITION

Spatial Analysis with R

Statistics, Visualization, and Computational Methods



Tonny J. Oyana

The implementation of new tools and methods for spatial analysis using R, the use and growth of artificial intelligence, machine learning and deep learning algorithms with a spatial perspective, and the interdisciplinary use of spatial analysis are all new topics in this second edition. The book provides a balance between concepts and practicum of spatial statistics with a comprehensive coverage of the most important approaches to understand spatial data, analyze spatial relationships and spatial patterns, and predict spatial processes. It offers new datasets, insights, and excellent illustrations to senior undergraduate and first year graduate students in geography and geosciences.

CRC Press
September 2023 : 354pp
Pb: 978-0-367-53238-3 : **£45.99**
Hb: 978-0-367-86085-1 : **£105**
eBook: 978-1-003-02164-3

* For full contents and more information, visit: www.routledge.com/9780367532383

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.

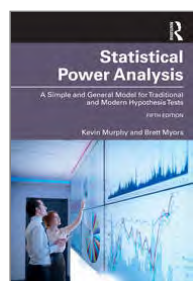
Routledge
November 2021 : 704pp
Pb: 978-0-367-62427-9 : **£84.99**
Hb: 978-0-367-62429-3 : **£240**
eBook: 978-1-003-10939-6

* 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 Myers Griffith University, Australia, **Kevin R. Murphy** University of Limerick, Ireland

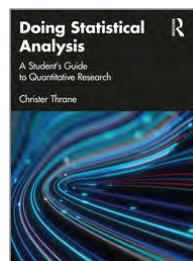
Statistical Power Analysis explains the key concepts in statistical power analysis and illustrates their application in both tests of traditional null hypotheses. It provides readers with the tools to understand and perform power analyses for virtually all the statistical methods used in the social and 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 : 224pp
Pb: 978-1-032-28300-5 : **£51.99**
Hb: 978-1-032-28301-2 : **£125**
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.

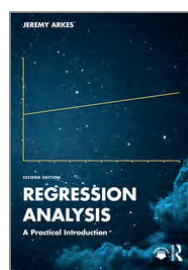
Routledge
July 2022 : 266pp
Pb: 978-1-032-17132-6 : **£49.99**
Hb: 978-1-032-18030-4 : **£135**
eBook: 978-1-003-25255-9

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

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.

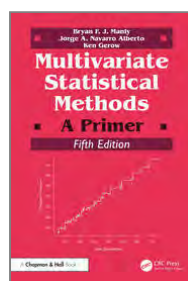
Routledge
January 2023 : 412pp
Pb: 978-1-032-25783-9 : **£39.99**
Hb: 978-1-032-25784-6 : **£125**
eBook: 978-1-003-28500-7

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

5TH EDITION

Multivariate Statistical Methods

A Primer



Bryan F. J. Manly University of Otago, Dunedin, New Zealand, **Jorge A. Navarro Alberto**, **Ken Gerow**

Great starting point for readers looking to become proficient in multivariate statistical methods, but who might not be deeply versed in the language of mathematics. In this edition, we provide readers with conceptual introductions to methods, practical suggestions, new references, and a more extensive collection of R functions and code that will help them to deepen their toolkit of multivariate statistical methods.

Chapman & Hall
October 2024 : 294pp
Pb: 978-1-032-59197-1 : **£52.99**
Hb: 978-1-032-59200-8 : **£150**
eBook: 978-1-003-45348-2

* For full contents and more information, visit: www.routledge.com/9781032591971

3RD EDITION

Multilevel and Longitudinal Modeling with IBM SPSS



Ronald H. Heck University of Hawaii, Manoa, **Scott L. Thomas** University of Vermont, USA, **Lynn N. Tabata** University of Hawaii, Manoa

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 GENLIMIXED) 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.

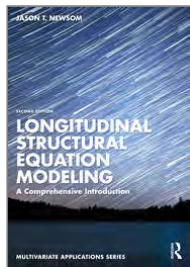
Routledge
April 2022 : 494pp
Pb: 978-0-367-42461-9 : **£47.99**
Hb: 978-0-367-42460-2 : **£165**
eBook: 978-0-367-82427-3

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

2ND EDITION

Longitudinal Structural Equation Modeling

A Comprehensive Introduction



Jason T. Newsom Portland State University, USA

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 : 522pp

Pb: 978-1-032-20286-0 : **£71.99**

Hb: 978-1-032-20283-9 : **£135**

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 Arizona State University, USA, **Rachel A. Vannatta**, **Kristina N. LaVenía** Bowling Green State University

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 : 350pp

Pb: 978-0-367-49747-7 : **£135**

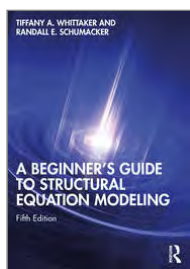
Hb: 978-0-367-49720-0 : **£350**

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 : 418pp

Pb: 978-0-367-47796-7 : **£68.99**

Hb: 978-0-367-49015-7 : **£135**

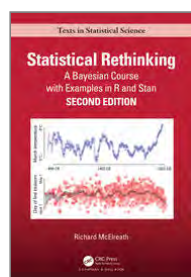
eBook: 978-1-003-04401-7

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

2ND EDITION

Statistical Rethinking

A Bayesian Course with Examples in R and STAN



Richard McElreath Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany

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

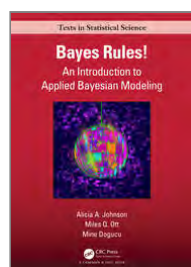
The very popular *Statistical Rethinking: A Bayesian Course with Examples in R and Stan*, Second Edition builds readers' knowledge of and confidence in statistical modeling. Reflecting the need for even minor programming in today's model-based statistics, the book pushes readers to perform step-by-step 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 : 612pp
Hb: 978-0-367-13991-9 : **£76.99**
eBook: 978-0-429-02960-8

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

Bayes Rules!

An Introduction to Applied Bayesian Modeling



Alicia A. Johnson, Miles Q. Ott Smith College, Northampton, MA 01063, **Mine Dogucu** Denison University, OH, USA

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

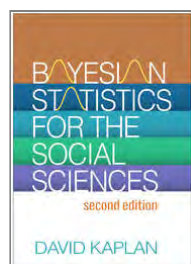
An engaging, sophisticated, and fun introduction to the field of Bayesian Statistics, *Bayes Rules! An Introduction to Bayesian Modeling with R* brings the power of modern Bayesian thinking, modeling, and computing to a broad audience. In particular, it is an ideal resource for advanced undergraduate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

Chapman & Hall
March 2022 : 544pp
Pb: 978-0-367-25539-8 : **£61.99**
Hb: 978-1-032-19159-1 : **£175**
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 University of Wisconsin–Madison, United States

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 : 250pp
Hb: 978-1-462-55354-9 : **£59.99**

* For full contents and more information, visit: www.routledge.com/9781462553549

2ND EDITION

The Effect

An Introduction to Research Design and Causality



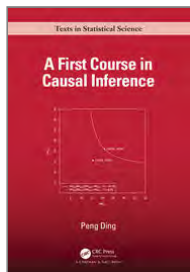
Nick Huntington-Klein

This book is about research design, specifically concerning research that uses non-experimental data to figure out whether one thing causes another. 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. Concepts are demonstrated with a heavy emphasis on graphical intuition and the question of what we do to data. When we “add a control variable” what does that actually do? The second edition features a new chapter on partial identification, updated materials, methods, and writing throughout, and additional materials for help navigating the book or in using the book in teaching.

Chapman & Hall
April 2025 : 686pp
Pb: 978-1-032-58022-7 : **£39.99**
Hb: 978-1-032-58194-1 : **£120**

* For **full contents** and more information, visit: www.routledge.com/9781032580227

A First Course in Causal Inference



Peng Ding University of California Berkeley, U.S.A

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.

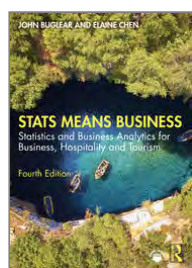
Chapman & Hall
July 2024 : 448pp
Hb: 978-1-032-75862-6 : **£64.99**
eBook: 978-1-003-48408-0

* For **full contents** and more information, visit: www.routledge.com/9781032758626

4TH EDITION

Stats Means Business

Statistics and Business Analytics for Business, Hospitality and Tourism



John Buglear, Elaine Chen

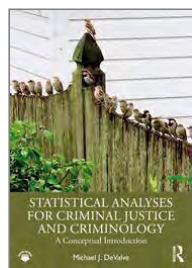
Stats Means Business is an introductory and comprehensive textbook written especially for Hospitality, Business and Tourism students who take statistics or quantitative methods modules. By minimising technical language, providing clear definitions of key terms and giving emphasis to interpretation rather than technique, this book caters to beginners in the subject. Stats Means Business is an ideal, accessible and practical introduction to statistics and quantitative research methods for Hospitality, Business and Tourism students.

Routledge
April 2025 : 464pp
Pb: 978-1-032-75021-7 : **£57.99**
Hb: 978-1-032-75018-7 : **£145**

* For full contents and more information, visit: www.routledge.com/9781032750217

Statistical Analyses for Criminal Justice and Criminology

A Conceptual Introduction



Michael J. DeValve

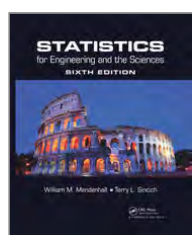
This book is a how-to guide for statistical analyses designed for undergraduates and others new to the subject. Written in an easy-going and clear style, the book uses policing data to illustrate concepts and includes a short narrative at the beginning of each chapter to engage readers. Easily identified 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 : 194pp
Pb: 978-1-032-63854-6 : **£37.99**
Hb: 978-1-032-63858-4 : **£145**
eBook: 978-1-032-63859-1

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

6TH EDITION

Statistics for Engineering and the Sciences



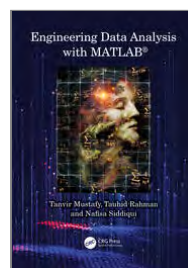
William M. Mendenhall, Terry L. Sincich

Designed for a two-semester introductory course, this popular text continues to teach students the basic concepts of data description and statistical inference as well as the statistical methods necessary for real-world applications. Along with updated and reorganized material, this sixth edition includes many new and updated exercises based on contemporary engineering and scientific-related studies and real data. It also offers more statistical software printouts and corresponding instructions for use that reflect the latest versions of the SAS, SPSS, and MINITAB software.

Chapman & Hall
December 2015 : 1182pp
Hb: 978-1-498-72885-0 : **£84.99**
eBook: 978-0-429-07627-5

* For full contents and more information, visit: www.routledge.com/9781498728850

Engineering Data Analysis with MATLAB®



Tanvir Mustafy Military Inst. of Science and Tech, BD,
Tauhid Rahman Military Inst. of Science and Tech, BD,
Nafisa Siddiqui Military Inst. of Science and Tech, BD

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.

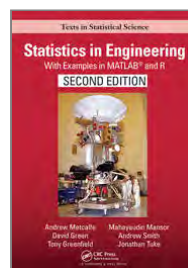
CRC Press
December 2024 : 902pp
Pb: 978-1-032-50771-2 : **£71.99**
Hb: 978-1-032-50658-6 : **£145**
eBook: 978-1-003-39958-2

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

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 : 810pp
Pb: 978-0-367-57062-0 : **£45.99**
Hb: 978-1-439-89547-4 : **£86.99**
eBook: 978-1-315-11723-2

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

Data Science

A First Introduction



Tiffany Timbers University of British Columbia, **Trevor Campbell**, **Melissa Lee**

Series: Chapman & Hall/CRC Data Science Series

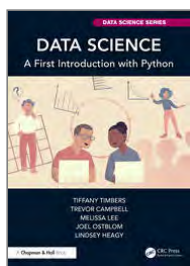
Data Science: A First Introduction focuses on using the R programming language in Jupyter notebooks to perform data manipulation and cleaning, create effective visualizations, and extract insights from data using classification, regression, clustering, and inference. The text emphasizes workflows that 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 : 456pp
Pb: 978-0-367-52468-5 : **£49.99**
Hb: 978-0-367-53217-8 : **£125**
eBook: 978-1-003-08097-8

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

Data Science

A First Introduction with Python



Tiffany Timbers University of British Columbia, **Trevor Campbell**, **Melissa Lee** Assistant Professor, Uni of British Columbia, Canada, **Joel Ostblom**, **Lindsey Heagy** Professor, Uni of British Columbia, Canada

Series: Chapman & Hall/CRC Data Science Series

This book focuses on using the Python 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. The book is designed for learners from all disciplines with minimal prior knowledge of mathematics and programming. The authors have honed the material through years of experience teaching.

Chapman & Hall
August 2024 : 452pp
Pb: 978-1-032-57223-9 : **£58.99**
Hb: 978-1-032-57219-2 : **£150**
eBook: 978-1-003-43839-7

* For full contents and more information, visit: www.routledge.com/9781032572239

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.

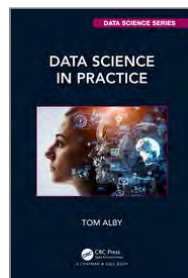
Chapman & Hall
November 2020 : 216pp
Pb: 978-0-367-89586-0 : **£48.99**
Hb: 978-0-367-89706-2 : **£130**
eBook: 978-1-003-02064-6

* 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.

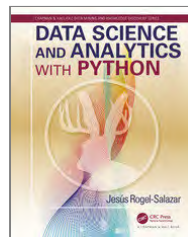
Chapman & Hall
September 2023 : 318pp
Pb: 978-1-032-50526-8 : **£56.99**
Hb: 978-1-032-50524-4 : **£145**
eBook: 978-1-003-42636-3

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

Data Science and Analytics with Python

Jesus Rogel-Salazar Imperial College London, UK

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.

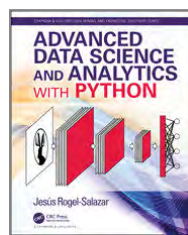
Chapman & Hall
August 2017 : 412pp
Pb: 978-1-498-74209-2 : **£49.99**
Hb: 978-1-138-04317-6 : **£105**
eBook: 978-1-315-15167-0

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

Advanced Data Science and Analytics with Python

Jesus Rogel-Salazar Imperial College London, UK

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

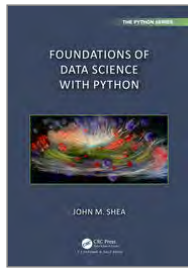


The book is intended for practitioners in data science and data analytics in both academic and business environments. It aims to present the reader with concepts in data science and analytics that were deemed to be more advanced or simply out of scope in the author's first book, and are used in data 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 : 424pp
Pb: 978-1-138-31506-8 : **£46.99**
Hb: 978-0-429-44661-0 : **£100**
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 : 496pp
Pb: 978-1-032-35042-4 : **£73.99**
Hb: 978-1-032-34674-8 : **£190**
eBook: 978-1-003-32499-7

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

2ND EDITION

Modern Data Science with R



Benjamin S. Baumer Smith College, Northampton, MA,
Daniel T. Kaplan Smith College, Northampton, MA,
Nicholas J. Horton Amherst College, Amherst, MA

Series: Chapman & Hall/CRC Texts in Statistical Science

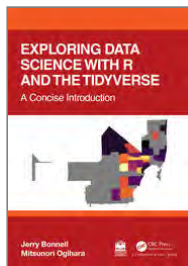
New data technologies and database systems facilitate scraping data and merging information from different sources and formats and restructuring data into a form suitable for analysis. State-of-the-art workflow and tools foster well-documented and reproducible analysis. Modern statistical methods allow 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 : 650pp
Hb: 978-0-367-19149-8 : **£84.99**
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** University of Miami,
Coral Gables, Florida, USA

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 : 492pp
Pb: 978-1-032-34170-5 : **£76.99**
Hb: 978-1-032-32950-5 : **£195**
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 DataCamp, **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.

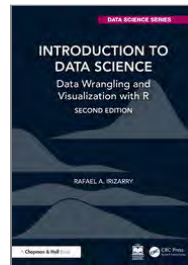
Chapman & Hall
December 2019 : 460pp
Pb: 978-0-367-40982-1 : **£68.99**
Hb: 978-0-367-40987-6 : **£175**
eBook: 978-0-367-40991-3

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

2ND EDITION

Introduction to Data Science

Data Wrangling and Visualization with R



Rafael A. Irizarry

Series: Chapman & Hall/CRC Data Science Series

Thoroughly revised and updated, this is the first book of the second edition of Introduction to Data Science: Data Wrangling and Visualization with R. It introduces skills that can help you tackle real-world data analysis challenges. No previous knowledge of R is necessary, although some experience with programming may be helpful. If you read and understand all the chapters and complete all the exercises in this book, and understand statistical concepts, you will be well-positioned to perform basic data analysis tasks and you will be prepared to learn the more advanced concepts and skills needed to become an expert.

Chapman & Hall
August 2024 : 346pp
Hb: 978-1-032-11655-6 : **£59.99**
eBook: 978-1-003-22092-3

* For full contents and more information, visit: www.routledge.com/9781032116556

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 : 622pp
Hb: 978-1-032-13477-2 : **£76.99**
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 : 402pp
Pb: 978-0-815-35439-0 : **£54.99**
Hb: 978-0-815-35447-5 : **£145**
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** University of Chicago, Illinois, USA, **Rayid Ghani** University of Chicago, Illinois, USA, **Ron S. Jarmin** , **Frauke Kreuter** University of Maryland, USA; University of Mannheim, Germany; and Institute for Employment Research, Germany, **Julia Lane** New York University; American Institutes for Research, USA

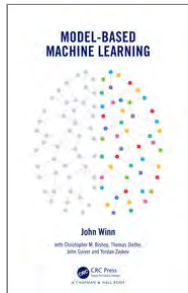
Series: Chapman & Hall/CRC Statistics in the Social and Behavioral Sciences

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 : 412pp
Pb: 978-0-367-56859-7 : **£54.99**
Hb: 978-0-367-34187-9 : **£135**
eBook: 978-0-429-32438-3

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

Model-Based Machine Learning



John Winn Microsoft Research Ltd., Cambridge, United Kingdom

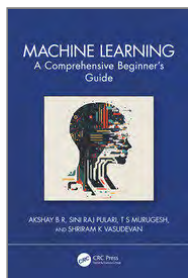
Machine learning is being applied to a growing variety of problems in a variety of domains. A fundamental challenge when using machine learning is connecting the abstract mathematics of a machine learning technique to real world problems. This book tackles this through model-based machine learning, focusing 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 : 468pp
Hb: 978-1-498-75681-5 : **£71.99**
eBook: 978-0-429-19268-5

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

Machine Learning

A Comprehensive Beginner's Guide



Akshay B R, Sini Raj Pulari, T.S. Murugesh Govt. College of Engineering Srirangam, Tamil Nadu, Shriram K. Vasudevan Intel India Pvt Ltd., Tamil Nadu

Machine learning is a dynamic and rapidly expanding field focused on creating algorithms that empower computers to recognize patterns, make predictions, and continually enhance performance. Dive into this fascinating field to master machine learning concepts with the step-by-step approach outlined in this book and contribute to its exciting future.

CRC Press
July 2024 : 258pp
Pb: 978-1-032-67666-1 : **£47.99**
Hb: 978-1-032-67665-4 : **£125**
eBook: 978-1-032-67668-5

* For full contents and more information, visit: www.routledge.com/9781032676661

Applied Machine Learning Using mlr3 in R



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

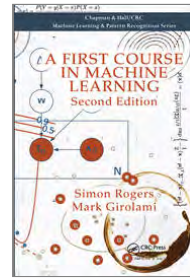
mlr3 is an award-winning ecosystem of R packages that have been developed to enable state-of-the-art machine learning capabilities in R. This book gives an overview of flexible and robust machine learning methods, with an emphasis on how to implement them using mlr3 in R. It covers many key topics, including 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 : 356pp
Pb: 978-1-032-50754-5 : **£63.99**
Hb: 978-1-032-51567-0 : **£165**
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

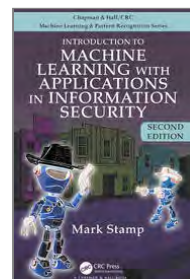
The new edition of this popular, undergraduate textbook has been revised and updated to reflect current growth areas in Machine Learning. The new edition includes three new chapters with more detailed discussion of Markov Chain Monte Carlo techniques, Classification and Regression with Gaussian Processes, 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 : 428pp
Pb: 978-0-367-57464-2 : **£39.99**
Hb: 978-1-498-73848-4 : **£64.99**
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 Department of Computer Science, San Jose State University

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
December 2024 : 548pp
Pb: 978-1-032-20717-9 : **£44.99**
Hb: 978-1-032-20492-5 : **£62.99**
eBook: 978-1-003-26487-3

* For full contents and more information, visit: www.routledge.com/9781032207179

Machine Learning Toolbox for Social Scientists

Applied Predictive Analytics with R



Yigit Aydede Professor, Saint Mary's University

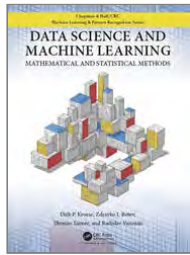
Machine Learning Toolbox for Social Scientists covers predictive methods with complementary statistical "tools" that make it mostly self-contained. The inferential statistics is the traditional framework for most data analytics courses in social science and business fields, especially in Economics and 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 : 600pp
Hb: 978-1-032-46395-7 : **£81.99**
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 University of New South Wales, **Thomas Taimre, Radislav Vaisman**

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

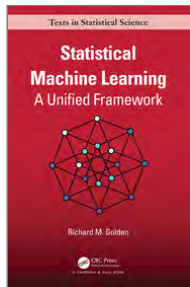
The purpose of this book is to provide an accessible, comprehensive textbook in data science and machine learning. The book will provide a solid basis in linear algebra, optimization, probability, and statistics. The main body will discuss the major topics in machine learning and data science: data manipulation, 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 : 538pp
Hb: 978-1-138-49253-0 : **£86.99**
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

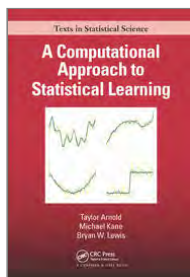
Series: Chapman & Hall/CRC Texts in Statistical Science

For advanced undergraduate students, graduate students, and professional. 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 : 524pp
Hb: 978-1-138-48469-6 : **£105**
eBook: 978-1-351-05150-7

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

A Computational Approach to Statistical Learning



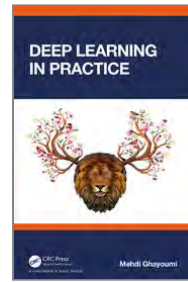
Taylor Arnold, Michael Kane, Bryan W. Lewis

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 : 374pp
Pb: 978-0-367-57061-3 : **£45.99**
Hb: 978-1-138-04637-5 : **£76.99**
eBook: 978-1-315-17140-1

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

Deep Learning in Practice



Mehdi Ghayoumi University of San Diego

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 : 218pp
Hb: 978-0-367-45862-1 : **£74.99**
eBook: 978-1-003-02581-8

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

Deep Learning for Engineers



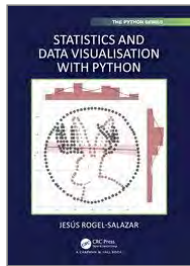
Tariq M. Arif Weber State University Ogden, UT, **Md**
Adilur Rahim Louisiana State University Baton Rouge, LA

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 : 170pp
Pb: 978-1-032-51581-6 : **£49.99**
Hb: 978-1-032-50473-5 : **£89.99**
eBook: 978-1-003-40292-3

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

Statistics and Data Visualisation with Python



Jesus Rogel-Salazar Imperial College London, UK

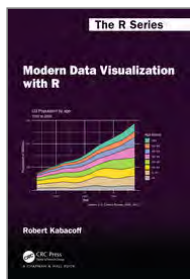
Series: Chapman & Hall/CRC The Python Series

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 not necessarily use it in their daily work.

Chapman & Hall
January 2023 : 554pp
Pb: 978-0-367-74451-9 : **£44.99**
Hb: 978-0-367-74936-1 : **£120**
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

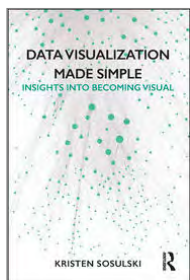
Describes ways that raw and summary data can be turned into visualizations that convey meaningful insights: basic graphs, bar charts, scatter plots, and line charts, and progresses to tree maps, alluvial plots, radar charts, mosaic plots, grouped dot plots, effects plots, multivariate presentations such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

Chapman & Hall
March 2024 : 271pp
Pb: 978-1-032-28760-7 : **£63.99**
Hb: 978-1-032-28949-6 : **£165**
eBook: 978-1-003-29927-1

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

Data Visualization Made Simple

Insights into Becoming Visual



Kristen Sosulski New York University, USA

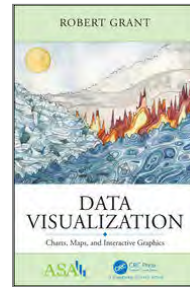
Data Visualization Made Simple is a practical guide to the fundamentals, strategies, and real-world cases for data visualization, an essential skill required in today's information-rich world. With foundations rooted in statistics, psychology, and computer science, data visualization offers practitioners 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 : 284pp
Pb: 978-1-138-50391-5 : **£36.99**
Hb: 978-1-138-50387-8 : **£145**
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 Kingston University & St George's, University of London

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 : 248pp
Pb: 978-1-138-70760-3 : **£23.99**
Hb: 978-1-138-55359-0 : **£86.99**
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

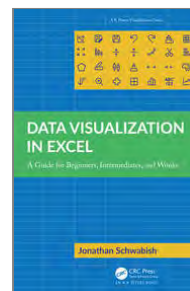
In Data Sketches, Nadieh Bremer and Shirley Wu document the creative and collaborative process behind 24 unique data visualization projects, spanning different topics, technologies, and forms. Features: Technical write-ups with beginner-friendly explanations of core concepts; Practical lessons on data 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 : 428pp
Pb: 978-0-367-00008-0 : **£37.99**
Hb: 978-0-367-00012-7 : **£99.99**
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 Wonks



Jonathan Schwabish

Series: AK Peters Visualization Series

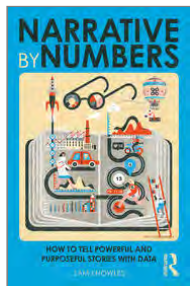
Data Visualization in Excel closes the gap between what people think Excel can do and what they can achieve in the tool. Over the past few years, recognition of the importance of effectively visualizing data has led to an explosion data analysis and visualization software tools. But for many people, 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 : 400pp
Pb: 978-1-032-34326-6 : **£26.99**
Hb: 978-1-032-34328-0 : **£81.99**
eBook: 978-1-032-48782-3 : **£22.99**

* 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

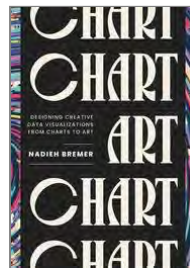
As jobs in the knowledge economy become increasingly similar, there are two core skills that everyone needs if they are going to thrive and succeed and to make a difference. These are the ability to interrogate and make sense of data, and the ability to use the insights extracted from the data to persuade 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 : 176pp
Pb: 978-0-815-35314-0 : **£36.99**
Hb: 978-0-815-35315-7 : **£135**
eBook: 978-1-351-13722-5

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

CHART

Designing Creative Data Visualizations from Charts to Art



Nadieh Bremer

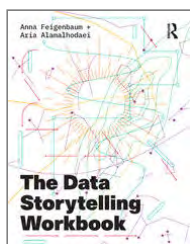
Series: AK Peters Visualization Series

CHART is a guide to unleashing creativity in data visualization. It takes you on a journey along the spectrum from an ordinary chart to data art, packed with ways to bring more creativity into any visualization. It will help to make your visuals more compelling and memorable, long after the numbers have been crunched. The author shares thirteen hands-on, tool-agnostic lessons, each filled with actionable insights and unique perspectives. Between these core lessons, you'll find tips, mini-chapters, and dozens of real-world examples from both client and personal projects. Designed for journalists, data analysts, business professionals, and newcomers alike.

A K Peters/CRC Press
May 2025 : 300pp
Hb: 978-1-032-79775-5 : **£35.99**

* For full contents and more information, visit: www.routledge.com/9781032797755

The Data Storytelling Workbook



Anna Feigenbaum , Aria Alamalhodaie

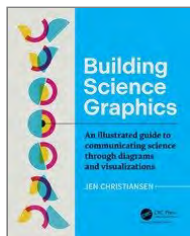
From tracking down information to symbolising human experiences, this book is your guide for telling more effective, empathetic and evidence-based data stories. Wide-ranging and in-depth, this interdisciplinary book is essential for students and researchers in journalism, communication, media, visual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

Routledge
March 2020 : 256pp
Pb: 978-1-138-05211-6 : **£34.99**
Hb: 978-1-138-05210-9 : **£135**
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 : 357pp
Pb: 978-1-032-10674-8 : **£38.99**
Hb: 978-1-032-10940-4 : **£94.99**
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 : 230pp
Pb: 978-1-032-62532-4 : **£38.99**
Hb: 978-1-032-62787-8 : **£145**
eBook: 978-1-032-62789-2

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

Virtual Presenting

A Guide to Formats, Production and Authentic Delivery



Jamie Cohen, Michael Sorrentino

Responding to the widespread and continued acceleration of virtual working practices in recent years, Virtual Presenting provides a clear guide to producing, presenting and broadcasting in a remote context. Unlike traditional studio production where a presenter is surrounded by a crew and cameras, the virtual presenter is often isolated or connected to a remote crew. Virtual Presenting explains how to make an authentic connection across great spaces, linked only via Internet. Topics covered include how to build a virtual setup; how to appear on camera; how to appear confident and comfortable; and how to optimize your presentation voice.

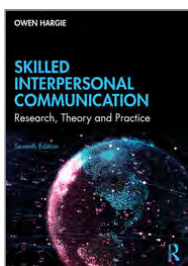
Routledge
March 2023 : 232pp
Pb: 978-1-032-25777-8 : **£35.99**
Hb: 978-1-032-27185-9 : **£125**
eBook: 978-1-003-29171-8

* For full contents and more information, visit: www.routledge.com/9781032257778

7TH EDITION

Skilled Interpersonal Communication

Research, Theory and Practice



Owen Hargie

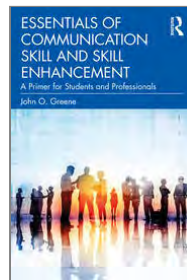
Established as the foremost textbook on communication, the seventh edition of Owen Hargie's Skilled Interpersonal Communication is thoroughly revised and updated with the latest research findings, theoretical developments and applications. Written by one of the foremost international experts in the field, this is essential reading for students of interpersonal communication in general, and to qualified personnel and trainees in many fields.

Routledge
November 2021 : 678pp
Pb: 978-1-032-00878-3 : **£49.99**
Hb: 978-1-032-02185-0 : **£135**
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.

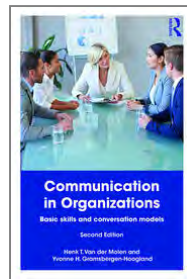
Routledge
March 2021 : 174pp
Pb: 978-0-367-53428-8 : **£36.99**
Hb: 978-0-367-53838-5 : **£135**
eBook: 978-1-003-08345-0

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

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 : 214pp
Pb: 978-1-138-55212-8 : **£32.99**
Hb: 978-1-138-55210-4 : **£135**
eBook: 978-1-315-14796-3

* For full contents and more information, visit: www.routledge.com/9781138552128

Interpersonal Skills for Group Collaboration

Creating High-Performance Teams in the Classroom and the Workplace



Tammy Rice-Bailey Milwaukee School of Engineering, USA, **Felicia Chong**

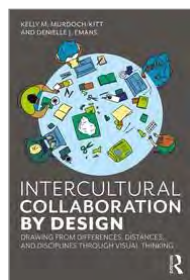
This lively and engaging text introduces readers to the core interpersonal and organizational skills needed to effectively collaborate on group projects in the classroom and the workplace. This guide can be used a supplementary text for any courses involving group projects, and will also be of interest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

Routledge
February 2023 : 142pp
Pb: 978-1-032-25906-2 : **£35.99**
Hb: 978-1-032-25907-9 : **£125**
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

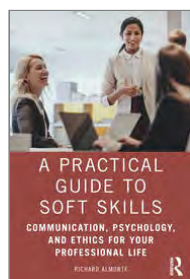
Intercultural Collaboration by Design introduces a framework for collaborating across cultures and learning to use multicultural perspectives to address pressing global issues. With over 30 hands-on activities, this book will be of great interest to diverse teams from a variety of disciplines who want 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 : 308pp
Pb: 978-0-367-21931-4 : **£32.99**
Hb: 978-0-367-21932-1 : **£120**
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 : 188pp
Pb: 978-1-032-07105-3 : **£41.99**
Hb: 978-1-032-08101-4 : **£140**
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.

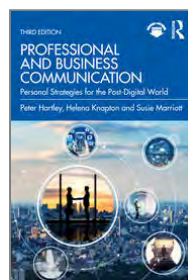
Routledge
January 2020 : 246pp
Pb: 978-1-138-48168-8 : **£35.99**
Hb: 978-1-138-48167-1 : **£135**
eBook: 978-1-351-06003-5

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

3RD EDITION

Professional and Business Communication

Personal Strategies for the Post-Digital World



Peter Hartley Edge Hill University, UK, **Susie Marriott**, **Helena Knapton**

This new edition of Professional and Business Communication is an ideal core communications textbook for students on business, management and professional courses preferring a practice-focused, and colloquial approach that combines accessibility with key theory.

Routledge
May 2023 : 380pp
Pb: 978-1-032-26800-2 : **£35.99**
Hb: 978-1-032-28586-3 : **£135**
eBook: 978-1-003-29755-0

* For full contents and more information, visit: www.routledge.com/9781032268002

Creating a Successful Digital Presence

Objectives, Strategies and Tactics



Gordon Fletcher University of Salford, UK, **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 : 212pp
Pb: 978-0-367-46037-2 : **£37.99**
Hb: 978-0-367-46034-1 : **£135**
eBook: 978-1-003-02658-7

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

21ST EDITION

Principles of Public Speaking



Dakota Horn Bradley University, USA.

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.

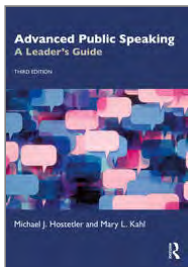
Routledge
April 2024 : 246pp
Pb: 978-1-032-53763-4 : **£100**
Hb: 978-1-032-54052-8 : **£220**
eBook: 978-1-032-72308-2 : **£96.99**

* For full contents and more information, visit: www.routledge.com/9781032537634

3RD EDITION

Advanced Public Speaking

A Leader's Guide



Michael J. Hostetler St. John's University, USA, **Mary L. Kahl**

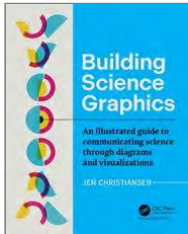
Providing users with the opportunity to increase their speaking abilities across a wide variety of complex and specific contexts, this student-engagement focused and flexible text serves as a core textbook for upper-level undergraduate public speaking courses.

Routledge
March 2024 : 212pp
Pb: 978-1-032-53186-1 : **£62.99**
Hb: 978-1-032-53187-8 : **£140**
eBook: 978-1-003-41078-2

* For full contents and more information, visit: www.routledge.com/9781032531861

Building Science Graphics

An Illustrated Guide to Communicating Science through Diagrams and Visualizations



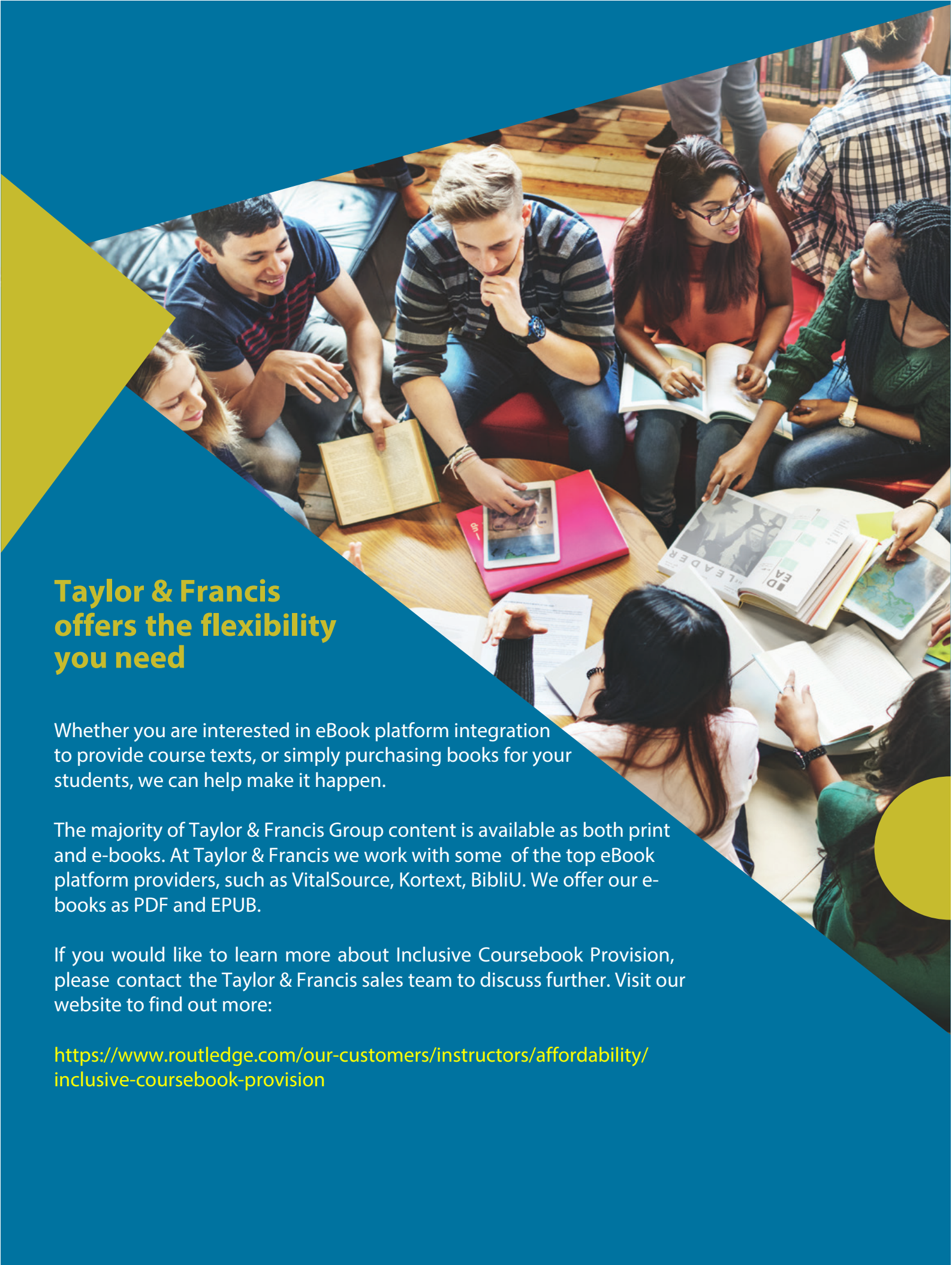
Jen Christiansen

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.

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