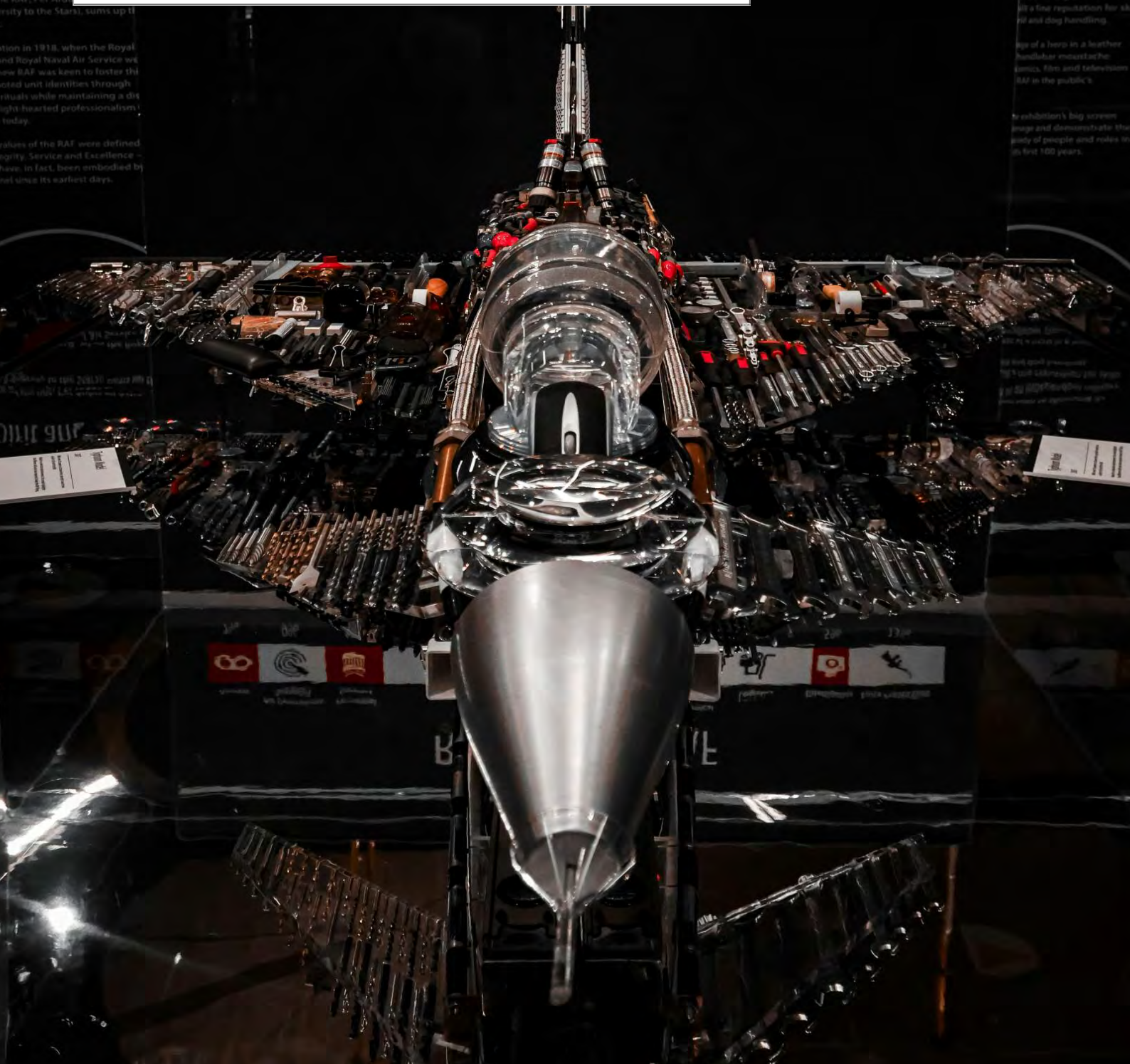


Routledge

# Aerospace Engineering Textbook Catalogue Spring 2026



# 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](http://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.

## Contact Details:

### HIGHER EDUCATION REPRESENTATIVES

**Pippa Whittle**

Higher Education Senior Representative, Midlands, Wales and the South West of England  
Pippa.Whittle@tandf.co.uk

**Jack Worman**

Academic Partnership Manager and Higher Education Sales Representative  
Jack.Worman@tandf.co.uk  
+44 (0)7771 374 203

**Mark Collins**

Higher Education Manager & Representative, North East of England  
Mark.Collins@tandf.co.uk  
+44 (0)7818 513 566

**Sebastien Durand-Nizan**

Higher Education Representative, Scotland & North of England  
Sebastien.Durand.Nizan@tandf.co.uk  
+44 (0)7876 867 704

**Richard Pollard**

Higher Education Sales Representative, Northern Ireland & ROI  
Richard.Pollard@tandf.co.uk  
+44 (0)7557 866 928

**Elena Cami**

Higher Education Senior Representative, London  
Elena.Sami@tandf.co.uk  
+44 (0)7399 480 032

**Becca Robinson**

Higher Education Senior Sales Executive, London and the South East  
Becca.robinson@tandf.co.uk

**Wayne McQuaig**

Higher Education Manager & Representative, Europe & Middle East  
Wayne.McQuaig@tandf.co.uk  
+44 (0)7584 213 670

**Caitlin Davies**

Higher Education Representative, Central & Southern Europe  
Caitlin.Davies@tandf.co.uk

**Jasmine Brown**

Higher Education Representative, Eastern Europe  
Jasmine.Brown@tandf.co.uk

**Rogier Rongen**

Higher Education Representative, Belgium, Luxembourg & the Netherlands  
Rogier.Rongen@taylorandfrancis.com

**Ellyse Stronach**

Higher Education Representative, Denmark, Finland, Iceland, Norway & Sweden  
Ellyse.Stronach@tandf.co.uk

### TRADE SALES

**Rod Abraham** - Assistant UK Sales Manager, responsible for UK Online Resellers & Wholesalers  
Rod.Abraham@tandf.co.uk  
+44 (0)7860 380814

**Lucy Pink** - UK and Ireland Bookseller & Reseller Accounts Manager, responsible for the UK and Ireland, excluding London and South East England  
Lucy.Pink@tandf.co.uk  
+44 (0) 7860 633156

**James Whittle** - UK Library Supply and Area Sales Manager, responsible for London and South East England  
James.Whittle@tandf.co.uk  
+44 (0)7802 536233

**Philip Veysey** - Head of European Sales, responsible for Spain and Portugal, Germany and Austria  
Philip.Veysey@informa.com  
+34 687773678

**Liza Walraven** - Area Sales Manager for France, The Netherlands and Luxembourg  
Liza.Walraven@taylorandfrancis.com  
+31 623849668

**Natalie Audley** - Area Sales Manager for the Nordics  
Natalie.Audley@tandf.co.uk  
+44 (0)7920 547869

**Hannah Dolton** - Area Sales Manager for Belgium, Norway and Key Accounts in The Netherlands  
Hannah.Dolton@tandf.co.uk

**Asia Swieczkowska** - Area Sales Manager for Eastern Europe and Central Asia  
Joanna.Swieczkowska@tandf.co.uk  
+44 (0)20 3377 3369

**Karolina Szidel** - Senior Sales Executive for Central and Southern Europe, Switzerland, Israel, Cyprus and Malta  
Karolina.Szidel@tandf.co.uk  
+44 (0)203 377 323

**Sales Support for UK and Europe Trade Sales:**  
UK&EuropeanSalesSupport@informa.com

## Inspection copies

To receive an exam/inspection, click on the weblink for the product or go to [www.routledge.com](http://www.routledge.com) and then use the Request Inspection Copy link on the book's page to make your request. You will be asked to provide some basic information about yourself and the course you are teaching. Most books are available as e-book/e-inspection access initially. Alternatively contact a Higher Education Representative to see if you are eligible for a paper inspection copy. For further information <https://www.routledge.com/our-customers/instructors/textbooks>

## Faculty Resources

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.

<https://www.routledge.com/our-customers/instructors/resources-support/faculty-resources>

## Affordable Learning Solutions

In the United Kingdom, our [Inclusive Coursebook Provision](#) program ensures that students have access to their core course texts at no additional charge to them.

In the United States, we're working with a number of digital partners to make our books available through [Inclusive Access programs](#) at colleges and universities across the country.

<https://www.routledge.com/our-customers/instructors/affordability>

## Online Platforms and Digital Products

<https://www.routledge.com/our-products/online-platforms>

## PDF textbook catalogues

<https://www.routledge.com/go/textbook-catalogues>

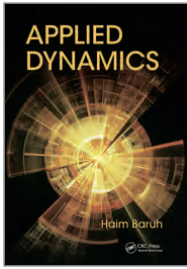
## Open access titles

[https://www.routledge.com/go/Open\\_Access\\_Title\\_Catalogues](https://www.routledge.com/go/Open_Access_Title_Catalogues)

# Contents

Advanced Dynamics .....	2	Orbital and Space Mechanics/Astrodynamics .....	42
Advanced Mechanics / Plates & Shells .....	3	Propulsion Systems - Advanced .....	43
Aerodynamics .....	4	Radar, Sensing, and Tracking .....	44
Aeroelasticity .....	5	Rocket Propulsion .....	45
Aerospace Project Management .....	6	Satellite Systems/Spacecraft Systems .....	46
Aircraft Performance .....	7	Structural Dynamics .....	47
Atomization & Sprays .....	8	Unmanned Aircraft Systems .....	48
Aviation Safety / Aerospace System Safety .....	9	<b>Study Skills, Research Methods &amp; Statistics. ....</b>	<b>52</b>
Compressible Fluid Flow / Gas Dynamics .....	10		
Computational Fluid Dynamics .....	11		
Control Systems .....	12		
Digital Control Systems .....	13		
Dynamic Systems and Control .....	14		
Dynamic Systems and Control .....	15		
Engineering Dynamics .....	16		
Engineering Education .....	17		
Engineering Mathematics .....	18		
Engineering Statics .....	19		
Engineering Thermodynamics .....	20		
Experimental Aerodynamics/Wind Tunnels .....	21		
Experimental Methods .....	22		
Finite Element Analysis .....	23		
Finite Element Analysis (Advanced) .....	24		
Flight Dynamics and Control .....	25		
Flight Mechanics/Aircraft Design .....	26		
Fluid Mechanics .....	27		
Fluid Mechanics (Advanced) .....	28		
Gas Turbines & Propulsion .....	29		
Helicopter Engineering/Rotor Dynamics .....	30		
High-Speed Aerodynamics/Hypersonic Flow .....	31		
Introduction to Engineering Computation .....	32		
Introduction to Engineering Computing .....	33		
Introduction to Flight .....	34		
Introduction to Materials Science .....	35		
Measurement and Data Analysis .....	36		
Mechanical Vibration .....	37		
Mechanics of Materials .....	38		
Missile Guidance & Control .....	39		
Modeling Methods in Aerospace Engineering .....	40		
Non-linear Control .....	41		

## Applied Dynamics



**Haim Baruh** Rutgers University, Piscataway, New Jersey, USA

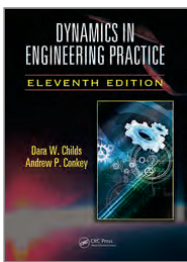
This modern study of engineering dynamics covers an array of topics, from basic principles to two- and three-dimensional motion, general kinematics and kinetics, analytical mechanics, vehicle motion, vibration response, and stability. By including examples from everyday life, the book makes concepts relatable and accessible. However, no effort is made to reduce rigor, as the text provides thorough coverage of the fundamental concepts of Newtonian and Lagrangian mechanics, three-dimensional motion, Kane's equations, as well as the stability and response of dynamical systems.

CRC Press  
December 2014 : 876pp  
Hb: 978-1-482-25073-2 : £165  
eBook: 978-0-429-09044-8

\* For full contents and more information, visit: [www.routledge.com/9781482250732](http://www.routledge.com/9781482250732)

11TH EDITION

## Dynamics in Engineering Practice



**Dara W. Childs** Texas A&M University, College Station, USA, **Andrew P. Conkey** Texas A&M University, Corpus Christi, USA

*Series: Applied and Computational Mechanics*

Written by a renowned teacher, researcher, and professional consultant in applied dynamics, this book represents a revolutionary approach to modern engineering dynamics analysis—one you can assimilate quickly and easily to get immediate results. The eleventh edition includes a new chapter on Lagrangian Dynamics, and many new and revised examples and chapter problems. The book begins by establishing the premise that most dynamics engineers are developing and analyzing models to predict motion, and that the subject of differential equations is the natural language for dynamics.

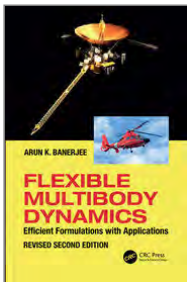
CRC Press  
April 2015 : 474pp  
Hb: 978-1-482-25025-1 : £155  
eBook: 978-0-429-16210-7

\* For full contents and more information, visit: [www.routledge.com/9781482250251](http://www.routledge.com/9781482250251)

2ND EDITION

## Flexible Multibody Dynamics

Efficient Formulations with Applications



**Arun Banerjee** American Institute of Aeronautics & Astronautics, USA

The book uses Kane's method due to its efficiency, and the simple resulting equations it produces in comparison to other methods, and extends it with algorithms such as order- $n$ . Kane's method compensates for the errors of premature linearization, which are often inherent within vibrations modes found in a great deal of public domain software. Describing how to build mathematical models of multibody systems with elastic components, the book applies this to systems such as construction cranes, trailers, helicopters, spacecraft, tethered satellites and underwater vehicles. It also looks at topics such as vibration, rocket dynamics, simulation of beams, deflection and matrix formulation.

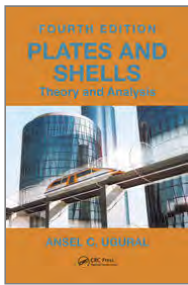
CRC Press  
August 2024 : 406pp  
Pb: 978-1-032-13928-9 : £48.99  
Hb: 978-1-032-13919-7 : £105  
eBook: 978-1-003-23152-3

\* For full contents and more information, visit: [www.routledge.com/9781032139289](http://www.routledge.com/9781032139289)

4TH EDITION

## Plates and Shells

Theory and Analysis, Fourth Edition



**Ansel C. Ugural** New Jersey Institute of Technology,  
Newark, USA

*Series: Applied and Computational Mechanics*

Noted for its practical, accessible approach to senior and graduate-level engineering mechanics, *Plates and Shells: Theory and Analysis* is a long-time bestselling text on the subjects of elasticity and stress analysis. Many new examples and applications are included to review and support key foundational concepts. Advanced methods are discussed and analyzed, accompanied by illustrations. Problems are carefully arranged from the basic to the more challenging level. Computer/numerical approaches (Finite Difference, Finite Element, MATLAB) are introduced, and MATLAB code for selected illustrative problems and a case study is included.

CRC Press

October 2017 : 618pp

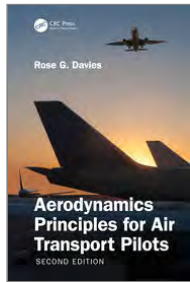
Hb: 978-1-138-03245-3 : £200

eBook: 978-1-315-10462-1

\* For full contents and more information, visit: [www.routledge.com/9781138032453](http://www.routledge.com/9781138032453)

2ND EDITION

## Aerodynamics Principles for Air Transport Pilots



**Rose G Davies** Massey University, New Zealand

This book provides a thorough understanding of the forces acting on an aircraft across a range of speeds and their effects on the aircraft's performance. The second edition features new content on aircraft performance as a part of the applications of analysis of aerodynamic forces, new sections on features of aerofoil on aerodynamic forces, and force feedback on control of PCATD. The book is intended for senior undergraduates studying to obtain their Airline Transport Pilot License (ATPL)/Airline Transport Pilot (ATP) certificate. Aviation and air transport pilots and aircraft maintenance engineers will also benefit from the content.

CRC Press

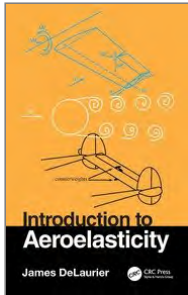
September 2025 : 262pp

Hb: 978-1-032-69286-9 : **£130**

eBook: 978-1-032-69288-3

\* For full contents and more information, visit: [www.routledge.com/9781032692869](http://www.routledge.com/9781032692869)

## Introduction to Aeroelasticity



**James DeLaurier**

This book introduces the classical topics of aeroelasticity, beginning with elastic structural modeling and the way that wing and tail structures can diverge and deform due to aerodynamic, inertial, and control-surface deflections. After describing flutter, first with an airfoil example with increasing complexity, and then for flutter predictions of finite wings with and without control surfaces, the book expands into single-degree-of-freedom flutter. It introduces cable "galloping," Aeolian flutter, plunging and pitching stall flutter. The book is intended for senior undergraduate and graduate aerospace engineering students taking introductory courses in Aeroelasticity.

CRC Press

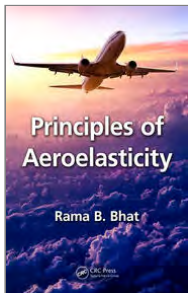
December 2024 : 196pp

Hb: 978-1-032-70906-2 : £105

eBook: 978-1-032-70909-3

\* For full contents and more information, visit: [www.routledge.com/9781032709062](http://www.routledge.com/9781032709062)

## Principles of Aeroelasticity



**Rama B. Bhat** Concordia University, Montreal, Canada

Aeroelasticity deals with the fluid-structure interaction problems in general, even though the subject traditionally evolved because of the special need in the design of aerospace structures. This book covers aeroelasticity along with some non-aerospace topics. It requires no prior courses on the theory of vibrations. The book provides the background of mechanics and strength of materials as well as solutions of differential equations. It contains extensive examples and case studies regarding aeroelasticity.

CRC Press

April 2016 : 186pp

Hb: 978-1-498-72472-2 : £86.99

eBook: 978-1-315-37061-3

\* For full contents and more information, visit: [www.routledge.com/9781498724722](http://www.routledge.com/9781498724722)

## Aerospace Project Management Handbook



*Edited by* **M. Ann Garrison Darrin** The Johns Hopkins University, Laurel, Maryland, USA, **Patrick A. Stadler** The Johns Hopkins University, Laurel, Maryland, USA

The Aerospace Project Management Handbook focuses on space systems, exploring intricacies rarely seen in land-based projects. These range from additional compliance requirements from Earned Value Management requirements and regulations (ESA, NASA, FAA), to criticality and risk factors for systems where repair is impossible. Aerospace project management has become a pathway for success in harsh space environments, as the Handbook demonstrates. With chapters written by experts, this comprehensive book offers a step-by-step approach emphasizing the applied techniques and tools, and is a prime resource for program managers, technical leads, systems engineers, and principle payload leads.

CRC Press

May 2017 : 442pp

Hb: 978-1-498-77652-3 : **£205**

eBook: 978-1-315-15488-6

\* For full contents and more information, visit: [www.routledge.com/9781498776523](http://www.routledge.com/9781498776523)

2ND EDITION

## Aircraft Performance

An Engineering Approach



**Mohammad H. Sadraey** Southern New Hampshire University, Manchester, NH

Aircraft Performance: An Engineering Approach, Second Edition introduces flight performance analysis techniques of fixed-wing air vehicles, particularly heavier-than-aircraft. It covers maximum speed, absolute ceiling, rate of climb, range, endurance, turn performance, and takeoff run. The book is intended for senior undergraduate aerospace students taking courses in Aircraft Performance, Flight Dynamics, and Flight Mechanics. The second edition features new content on vertical takeoff and landing, UAV launch, UAV recovery, use of rocket engine as the main engine, range for electric aircraft, electric engine, endurance for electric aircraft, gliding flight, and climb-turn.

CRC Press

July 2023 : 692pp

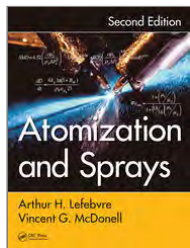
Hb: 978-1-032-24515-7 : £145

eBook: 978-1-003-27906-8

\* For full contents and more information, visit: [www.routledge.com/9781032245157](http://www.routledge.com/9781032245157)

2ND EDITION

## Atomization and Sprays



**Arthur H. Lefebvre**, **Vincent G. McDonell** University of California, Irvine, USA

The second edition of this long-time bestseller provides a framework for designing and understanding sprays for a wide array of engineering applications. The text contains correlations and design tools that can be easily understood and used in relating the design of atomizers to the resulting spray behavior. Written to be accessible to readers with a modest technical background, the emphasis is on application rather than in-depth theory. Numerous examples are provided to serve as starting points for using the information in the book. Overall, this is a thoroughly updated edition that still retains the practical focus and readability of the original work by Arthur Lefebvre.

CRC Press

April 2017 : 300pp

Hb: 978-1-498-73625-1 : £195

eBook: 978-1-315-12091-1

\* For full contents and more information, visit: [www.routledge.com/9781498736251](http://www.routledge.com/9781498736251)

## Foreign Object Debris and Damage in Aviation



**Ahmed F. El-Sayed** Zagazig University, Egypt

Foreign Object Debris and Damage in Aviation discusses biological and non-biological Foreign Object Debris (FOD) and associated Foreign Object Damage (FOD) in aviation. Written for aviation industry personnel, aircraft transport and ground operators, and aircraft pilots, readers will learn to manage FOD to guarantee air traffic safety with minimum costs to airlines and airports. Management control for the debris begins at the aircraft design phase, and the book includes numerical analyses for estimating damage caused by strikes. It explores aircraft operation in adverse weather conditions and inanimate FOD management programs for airports, airframe, and engine manufacturers.

CRC Press  
October 2024 : 544pp  
Pb: 978-0-367-67843-2 : **£58.99**  
Hb: 978-0-367-67841-8 : **£170**  
eBook: 978-1-003-13308-7

\* For full contents and more information, visit: [www.routledge.com/9780367678432](http://www.routledge.com/9780367678432)

3RD EDITION

## Safety Management Systems in Aviation



**Alan J Stolzer , Robert L Sumwalt , John J Goglia**

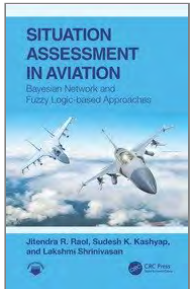
Safety Management Systems in Aviation, Third Edition presents the quality management underpinnings of SMS, the four components, risk management, reliability engineering, SMS implementation, and the scientific rigor that must be designed into proactive safety. The book is intended for undergraduate aviation students taking Safety Management and Aviation Safety courses. It also functions as a valuable reference tool for SMS practitioners. Including coverage on the cultures of regulatory organizations and expanded coverage on culture assessment, the book considers the nexus between cultural maturity and safety management performance.

CRC Press  
April 2023 : 364pp  
Pb: 978-1-032-26020-4 : **£57.99**  
Hb: 978-1-032-26021-1 : **£155**  
eBook: 978-1-003-28612-7

\* For full contents and more information, visit: [www.routledge.com/9781032260204](http://www.routledge.com/9781032260204)

## Situation Assessment in Aviation

Bayesian Network and Fuzzy Logic-based Approaches



**Jitendra R. Raol** Ramaiah Instof Tech, India, **Sudesh K. Kashyap** CSIR-NAL, India, **Lakshmi Shrinivasan** Ramaiah Institute of Technology, India

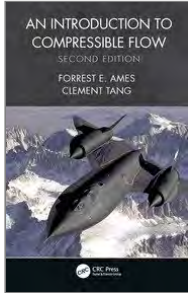
Situation Assessment in Aviation new aspects of soft computing technologies for evaluation and assessment of situations in aviation scenarios. It considers using technologies, emerging from: multisensory data fusion (MSDF), Bayesian networks (BN), and fuzzy logic (FL), to assist pilots in their decision-making. The book is intended for aerospace R&D engineers, systems engineers, aeronautical engineers, and aviation training professionals. It will also be useful for aerospace and electrical engineering students taking courses in Air Traffic Management, Aviation Management, Aviation Operations, and Aviation Safety Systems.

CRC Press  
February 2024 : 434pp  
Hb: 978-1-032-44093-4 : **£175**  
eBook: 978-1-003-37041-3

\* For full contents and more information, visit: [www.routledge.com/9781032440934](http://www.routledge.com/9781032440934)

2ND EDITION

## An Introduction to Compressible Flow



**Forrest E. Ames** University of North Dakota, USA,  
**Clement C. Tang** University of North Dakota, USA

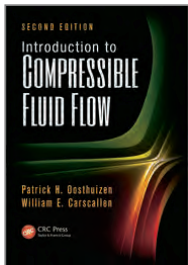
An Introduction to Compressible Flow, Second Edition covers the material typical of a single-semester course in compressible flow. The book begins with a brief review of thermodynamics and control volume fluid dynamics, then proceeds to cover isentropic flow, normal shock waves, shock tubes, oblique shock waves, Prandtl-Meyer expansion fans, Fanno-line flow, Rayleigh-line flow, and conical shock waves. The book is intended for senior undergraduate engineering students studying thermal-fluids and practicing engineers in the areas of aerospace or energy conversion. It also provides supplemental coverage of compressible flow material in gas turbine and aerodynamics courses.

CRC Press  
 July 2023 : 296pp  
 Pb: 978-0-367-69779-2 : **£48.99**  
 Hb: 978-0-367-89567-9 : **£140**  
 eBook: 978-1-003-04294-5

\* For full contents and more information, visit: [www.routledge.com/9780367697792](http://www.routledge.com/9780367697792)

2ND EDITION

## Introduction to Compressible Fluid Flow



**Patrick H. Oosthuizen** Queen's University, Kingston, Ontario, Canada, **William E. Carscallen** Institute for Aerospace Research, Ottawa, Ontario, Canada

*Series: Heat Transfer*

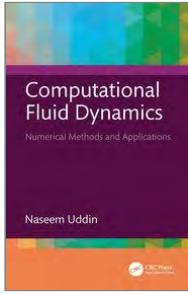
Highlighting aspects of compressible fluid dynamics often missed in undergraduate courses, this text reviews background material and lays the foundation for more advanced and specialized courses such as Hypersonic Flow and Low Density Flows. With a wealth of updated and expanded material, this second edition includes numerical results obtained using a modern commercial computer fluid dynamics code, focuses on supporting software and practical applications, provides additional numerical and non-numerical problems, replaces BASIC with MATLAB® routines, and offers COMPROP2 software for compressible flow computation.

CRC Press  
 July 2013 : 580pp  
 Hb: 978-1-439-87791-3 : **£175**  
 eBook: 978-0-429-10984-3

\* For full contents and more information, visit: [www.routledge.com/9781439877913](http://www.routledge.com/9781439877913)

## Computational Fluid Dynamics

Numerical Methods and Applications



**Naseem Uddin** Universiti Teknologi Brunei

Computational Fluid Dynamics: Numerical Methods and Applications offers a comprehensive exploration of computational fluid dynamics (CFD) methods, focusing on numerical techniques for solving fluid flow problems through both finite difference and finite-volume methods. It explores numerical schemes, advection-diffusion equations, shock-capturing methods, and turbulence modeling. Emphasizing stability and accuracy preservation as part of modern CFD practice, the book addresses both laminar and turbulent regimes. Senior undergraduate aerospace and mechanical engineering students taking a CFD course will find this book particularly valuable.

CRC Press

February 2026 : 666pp

Hb: 978-1-041-12136-7 : £125

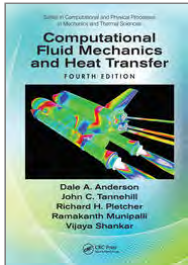
eBook: 978-1-003-66317-1

eBook: 978-1-003-66317-1

\* For full contents and more information, visit: [www.routledge.com/9781041121367](http://www.routledge.com/9781041121367)

4TH EDITION

## Computational Fluid Mechanics and Heat Transfer



**Dale Anderson** University of Texas at Arlington, USA,  
**John C. Tannehill** Iowa State University, Ames, USA,  
**Richard H. Pletcher** Iowa State University, Ames, USA,  
**Ramakanth Munipalli** HyPerComp, Inc., USA, **Vijaya Shankar** HyPerComp, Inc., USA

*Series: Computational and Physical Processes in Mechanics and Thermal Sciences*

This book is a fully updated version of the classic text on finite-difference and finite-volume computational methods. As an introductory text for advanced undergraduates and first-year graduate students, the new edition provides the background necessary for solving complex problems in fluid mechanics and heat transfer. Divided into two parts, the text covers essential concepts in the first part, and then moves on to fluids equations in the second. Designed as a valuable resource for practitioners and students, new examples and homework problems have been added to further enhance the student's understanding of the fundamentals and applications.

CRC Press

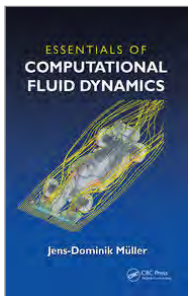
December 2020 : 974pp

Hb: 978-0-815-35712-4 : £155

eBook: 978-1-351-12402-7

\* For full contents and more information, visit: [www.routledge.com/9780815357124](http://www.routledge.com/9780815357124)

## Essentials of Computational Fluid Dynamics



**Jens-Dominik Müller** Queen Mary University of London, England, UK

Approaching the material from the viewpoint of a user of a commercial flow package, this book initially limits the description of the mathematics to the level that is strictly needed to make the correct choices when setting up a case in a commercial flow solver. It discusses the sources of errors in FD solutions using simple examples with finite differences, and they are demonstrated with mesh convergence studies. It focuses on the understanding of how the flow physics interact with a typical finite-volume discretization.

CRC Press

November 2015 : 238pp

Pb: 978-1-482-22730-7 : £115

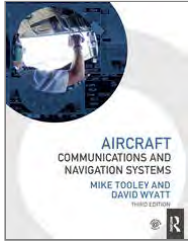
Hb: 978-1-138-40130-3 : £195

eBook: 978-0-429-18868-8

\* For full contents and more information, visit: [www.routledge.com/9781482227307](http://www.routledge.com/9781482227307)

3RD EDITION

## Aircraft Communications and Navigation Systems



**Mike Tooley** Brooklands College, UK, **David Wyatt** Gama Aviation, UK

This introduces the principles for aircraft maintenance engineering especially for Air Transport Association of America chapters 23/34, and modules 11 and 13 of part-66 of the European Aviation Safety Agency syllabus. It supports any EASA or FAR-147-approved course in aerospace engineering. It includes a new chapter on EMC, with examples of EMI, and covers antenna configuration and matching; the Smith Chart; Virtual Network Analysis; Software Defined Radio technology; precision-area navigation (P-RNAV); phased array radar technology; and ADS-B and FANS mandates. With self-test questions, exercises and multiple choice questions, and interactive materials on the book's website

Routledge

March 2024: 390pp

Pb: 978-1-032-51808-4 : **£52.99**

Hb: 978-1-032-53415-2 : **£145**

eBook: 978-1-032-62613-0 : **£44.99**

\* For full contents and more information, visit: [www.routledge.com/9781032518084](http://www.routledge.com/9781032518084)

3RD EDITION

## Aircraft Digital Electronic and Computer Systems



**Mike Tooley** Brooklands College, UK

This text is a thorough introduction to the principles and practice of aircraft digital electronic, avionic and computer systems. It particularly suits maintenance engineer students on an EASA Part-66 or FAR-147 approved course, and those on related City & Guilds, National or Higher National Units, or First/Foundation degree courses in aircraft engineering and similar. New topics in this third edition include integrated modular avionics, cabin systems, and aircraft information systems; together with examples from the latest Airbus and Boeing systems, and updates to data buses and integrated circuits. The companion website [www.66web.co.uk](http://www.66web.co.uk) offers additional resource material.

Routledge

July 2022 : 412pp

Pb: 978-1-032-10480-5 : £51.99

Hb: 978-1-032-10482-9 : £94.99

eBook: 978-1-003-21551-6

\* For full contents and more information, visit: [www.routledge.com/9781032104805](http://www.routledge.com/9781032104805)

## Control Systems

Classical, Modern, and AI-Based Approaches



**Jitendra R. Raol** Ramaiah Instof Tech, India, **Ramakalyan Ayyagari** National Institute of Technology (NIT), India

This book provides a broad and comprehensive study of the principles, mathematics, and applications for studying basic control in Mechanical, Electrical, Aerospace, and other engineering disciplines. The text builds a strong mathematical foundation of control theory, introducing linear, non-linear, digital, optimal, and robust control systems, and builds upon that foundation to address applications in emerging areas such as unmanned aircraft systems, robotic systems, and spacecraft. Numerical coverage with MATLAB® is integrated, and numerous examples and exercises are included in each chapter; and MATLAB® code will be available.

CRC Press

July 2019 : 668pp

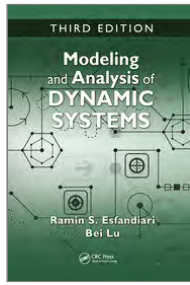
Hb: 978-0-815-34630-2 : £150

eBook: 978-1-351-17080-2

\* For full contents and more information, visit: [www.routledge.com/9780815346302](http://www.routledge.com/9780815346302)

3RD EDITION

## Modeling and Analysis of Dynamic Systems



**Ramin S. Esfandiari** California State University, Long Beach, USA

Modeling and Analysis of Dynamic Systems, Third Edition introduces MATLAB®, Simulink®, and Simscape™ and then utilizes them to perform symbolic, graphical, numerical, and simulation tasks. Written for senior level courses/modules, the textbook meticulously covers techniques for modeling a variety of engineering systems, methods of response analysis, and introductions to mechanical vibration, and to basic control systems. These features combine to provide students with a thorough knowledge of the mathematical modeling and analysis of dynamic systems. The Third Edition now includes Case Studies, expanded coverage of system identification, and updates to the computational tools included.

CRC Press

February 2018 : 617pp

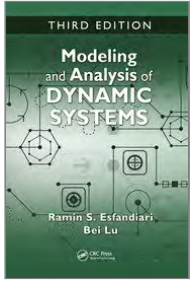
Hb: 978-1-138-72642-0 : £130

eBook: 978-1-315-19129-4

\* For full contents and more information, visit: [www.routledge.com/9781138726420](http://www.routledge.com/9781138726420)

3RD EDITION

## Modeling and Analysis of Dynamic Systems



**Ramin S. Esfandiari** California State University, Long Beach, USA

Modeling and Analysis of Dynamic Systems, Third Edition introduces MATLAB®, Simulink®, and Simscape™ and then utilizes them to perform symbolic, graphical, numerical, and simulation tasks. Written for senior level courses/modules, the textbook meticulously covers techniques for modeling a variety of engineering systems, methods of response analysis, and introductions to mechanical vibration, and to basic control systems. These features combine to provide students with a thorough knowledge of the mathematical modeling and analysis of dynamic systems. The Third Edition now includes Case Studies, expanded coverage of system identification, and updates to the computational tools included.

CRC Press

February 2018 : 617pp

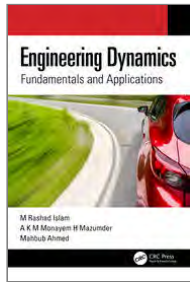
Hb: 978-1-138-72642-0 : £130

eBook: 978-1-315-19129-4

\* For full contents and more information, visit: [www.routledge.com/9781138726420](http://www.routledge.com/9781138726420)

## Engineering Dynamics

Fundamentals and Applications



**M Rashad Islam , A K M Monayem H Mazumder ,  
Mahbub Ahmed**

This textbook is intended for the first course of engineering dynamics for undergraduate students. Engineering dynamics is a rigorous topic that typically involves the intensive use of vector mathematics and calculus. This book, however, uses plain language with less vector mathematics and calculus to introduce these topics of mathematics to students with a high school physics background. Numerous practical examples are provided with their step-by-step worked out solutions, as well as case studies to reflect the interests of new engineering and applied engineering students.

CRC Press

November 2024 : 276pp

Pb: 978-1-032-25561-3 : **£48.99**

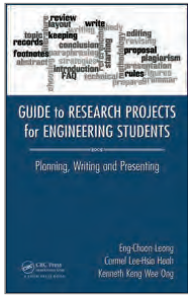
Hb: 978-1-032-25557-6 : **£125**

eBook: 978-1-003-28395-9

\* For full contents and more information, visit: [www.routledge.com/9781032255613](http://www.routledge.com/9781032255613)

## Guide to Research Projects for Engineering Students

Planning, Writing and Presenting



**Eng Choon Leong** Nanyang Technological University, Singapore, **Carmel Lee-Hsia Heah** Nanyang Technological University, Singapore, **Kenneth Keng Wee Ong** Nanyang Technological University, Singapore

For students embarking on their first research project, sifting through the vast amount of information on the Internet can be a daunting and time consuming task. Research projects require not just understanding of the research methodology, but also complementary skills including information search, technical writing, oral presentation, and software knowledge. This book is written especially for students who need a quick and concise handbook to support them in conducting research so that they can devote most of their time to their research.

CRC Press

July 2015 : 253pp

Pb: 978-1-482-23877-8 : £41.99

Hb: 978-1-138-42428-9 : £200

eBook: 978-0-429-15768-4

\* For full contents and more information, visit: [www.routledge.com/9781482238778](http://www.routledge.com/9781482238778)

3RD EDITION

## Technical Writing

A Practical Guide for Engineers, Scientists, and Nontechnical Professionals



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

*Series: What Every Engineer Should Know*

This practical text enables readers to write, edit, and publish materials of a technical nature, including books, articles, reports, and electronic media. Written by experienced practicing engineers, this guide complements traditional technical writing manuals through presentation of first-hand examples that help readers understand practical considerations in writing and producing technical content. The new edition includes new and updated exercises, examples, and case studies and includes new content on software/systems documentation, popular writing tools, and technologies such as generative AI. It is aimed at students and professionals in the science and engineering domains.

CRC Press

November 2025 : 271pp

Pb: 978-1-032-84374-2 : £47.99

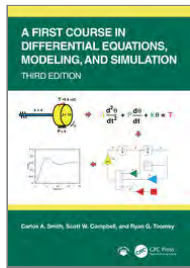
Hb: 978-1-032-84375-9 : £160

eBook: 978-1-003-51243-1

\* For full contents and more information, visit: [www.routledge.com/9781032843742](http://www.routledge.com/9781032843742)

3RD EDITION

## A First Course in Differential Equations, Modeling, and Simulation



**Carlos A. Smith** University of South Florida, Tampa, USA,  
**Scott W. Campbell** University of South Florida, Tampa, USA,  
**Ryan G. Toomey**

This textbook shows how differential equations arise from applying basic physical principles and experimental observations to engineering systems. Avoiding overly theoretical explanations, the textbook also discusses classical and Laplace transform methods for obtaining the analytical solution of differential equations. In addition, the authors explain how to solve sets of differential equations where analytical solutions cannot easily be obtained. Incorporating valuable suggestions from mathematicians and mathematics professors, the Third Edition provides students with a practical understanding of how to apply differential equations in modern engineering and science.

CRC Press  
September 2025 : 534pp  
Hb: 978-1-041-02421-7 : **£94.99**  
eBook: 978-1-003-61916-1

\* For full contents and more information, visit: [www.routledge.com/9781041024217](http://www.routledge.com/9781041024217)

## A Mathematics Boot Camp for Science and Engineering Students



**Ying Ma**

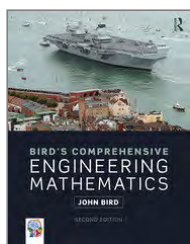
Many students have difficulty applying mathematical techniques to solve problems in science and engineering, even after completing Calculus I and II. Students who are beginning core coursework in their field of study often need additional guidance on practicing, learning, and improving their problem-solving skills for application. This book offers a solution to this issue and is specifically designed to address common errors in mathematical problem-solving for undergraduate science and engineering students. This concise and practical text offers "basic training" in mathematical problem-solving skills for undergraduate students in science and engineering disciplines.

CRC Press  
March 2025 : 323pp  
Pb: 978-1-032-44294-5 : **£56.99**  
Hb: 978-1-032-44295-2 : **£130**  
eBook: 978-1-003-37148-9

\* For full contents and more information, visit: [www.routledge.com/9781032442945](http://www.routledge.com/9781032442945)

2ND EDITION

## Bird's Comprehensive Engineering Mathematics



**John Bird**

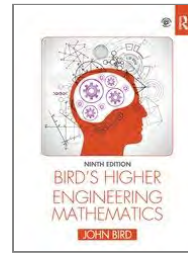
This comprehensive textbook covers the key mathematical principles for real-life engineering problems. Along with its companion website it provides simple explanations, supported by 1600 worked problems and over 3200 further problems contained within 384 exercises throughout the text. With 34 Revision tests together with 9 Multiple-choice tests -- and detailed solutions to 3200 further problems.

Routledge  
June 2018 : 1226pp  
Pb: 978-0-815-37814-3 : **£59.99**  
Hb: 978-0-815-37815-0 : **£170**  
eBook: 978-1-351-23287-6

\* For full contents and more information, visit: [www.routledge.com/9780815378143](http://www.routledge.com/9780815378143)

9TH EDITION

## Bird's Higher Engineering Mathematics



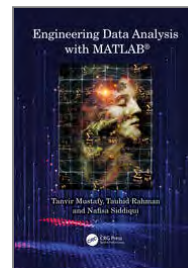
**John Bird** Defence College of Technical Training, UK

Higher Engineering Mathematics has helped thousands of students to succeed in their exams by developing problem-solving skills. It is supported by over 600 practical engineering examples and applications which relate theory to practice. The extensive and thorough topic coverage makes this a solid text for undergraduate and upper-level vocational courses. Its companion website provides resources for both students and lecturers, including lists of essential formulae, and full solutions to all 2,000 further questions contained in the 277 practice exercises; and illustrations and answers to revision tests for adopting course instructors.

Routledge  
March 2021 : 934pp  
Pb: 978-0-367-64373-7 : **£52.99**  
Hb: 978-0-367-64375-1 : **£125**  
eBook: 978-1-003-12422-1

\* For full contents and more information, visit: [www.routledge.com/9780367643737](http://www.routledge.com/9780367643737)

## Engineering Data Analysis with MATLAB®



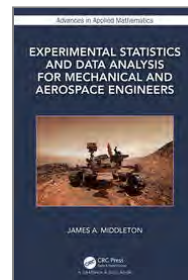
**Tanvir Mustafy** Military Inst. of Science and Tech, BD,  
**Tauhid Rahman** Military Inst. of Science and Tech, BD,  
**Nafisa Siddiqui** Military Inst. of Science and Tech, BD

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 : **£75.99**  
Hb: 978-1-032-50658-6 : **£155**  
eBook: 978-1-003-39958-2

\* For full contents and more information, visit: [www.routledge.com/9781032507712](http://www.routledge.com/9781032507712)

## Experimental Statistics and Data Analysis for Mechanical and Aerospace Engineers



**James A. Middleton**

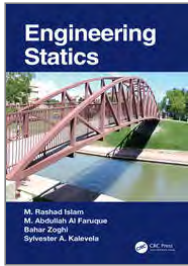
*Series: Advances in Applied Mathematics*

This text will introduce students to key concepts in probability and statistics with applications in mechanical and aerospace engineering. Emphasis is placed on modelling variation in observations, characterizing its distribution, and making inferences with regards to quality assurance and control. Fitting multivariate models, experimental design and hypothesis testing are all critical skills developed in the course. All topics are developed utilizing data from engineering projects, simulations, and laboratory experiences. MatLab is used throughout.

Chapman & Hall  
November 2021 : 586pp  
Hb: 978-0-367-55596-2 : **£125**  
eBook: 978-1-003-09422-7

\* For full contents and more information, visit: [www.routledge.com/9780367555962](http://www.routledge.com/9780367555962)

## Engineering Statics



**M. Rashad Islam , M. Abdullah Al Faruque , Bahar Zoghi , Sylvester A. Kalevela**

Engineering Statics presents the cutting-edge topics in engineering statics, focusing on practical applications knowledge, with numerous real-world examples, practice problems, and case studies throughout. It covers theory concisely and uses plain language and coverage that can be completed in a one-semester course. It also covers the related concepts required to take the Fundamentals of Engineering (FE) exam.

CRC Press

August 2024 : 308pp

Pb: 978-0-367-56521-3 : **£48.99**

Hb: 978-0-367-56106-2 : **£125**

eBook: 978-1-003-09815-7

\* For **full contents** and more information, visit: [www.routledge.com/9780367565213](http://www.routledge.com/9780367565213)

## Engineering Thermodynamics

Fundamental and Advanced Topics



**Kavati Venkateswarlu** RAK Research and Innovation Center, American University of Ras Al Khaimah", Ras Al Khaimah, United Arab Emirates.

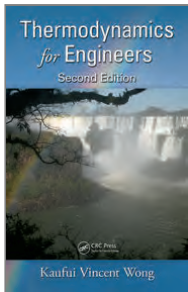
The proposed textbook covers fundamental and advanced concepts of engineering thermodynamics with the help of pedagogical features including solved problems and unsolved exercises. It presents detailed discussion of vapor power cycles including reheat Rankine cycle, regenerative Rankine cycle and Carnot vapor cycle. It will be a valuable resource for senior undergraduate and graduate students in the field of mechanical engineering, civil engineering and aerospace engineering.

CRC Press  
October 2024 : 487pp  
Pb: 978-0-367-65210-4 : **£54.99**  
Hb: 978-0-367-64628-8 : **£155**  
eBook: 978-1-003-12836-6

\* For full contents and more information, visit: [www.routledge.com/9780367652104](http://www.routledge.com/9780367652104)

2ND EDITION

## Thermodynamics for Engineers



**Kaufui Vincent Wong** University of Miami, Coral Gables, Florida, USA

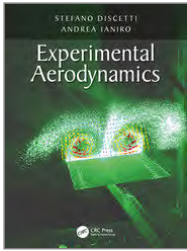
*Series: Mechanical and Aerospace Engineering Series*

This second edition presents a comprehensive treatment of engineering thermodynamics from a classical point of view to prepare engineering students for professional practice. Taking an accessible, straightforward, and cohesive approach, the book exposes readers to the "big picture" of thermodynamics, and its streamlined presentation allows glimpses into important concepts and methods rarely offered by texts at this level. This edition includes a new chapter on thermodynamic property relations and every chapter has updated, expanded problem sets. The author has developed a unique, practical guide to classical thermodynamics that can be used for reference or for a one-semester course.

CRC Press  
August 2011 : 450pp  
Hb: 978-1-439-84559-2 : **£155**  
eBook: 978-0-429-18488-8

\* For full contents and more information, visit: [www.routledge.com/9781439845592](http://www.routledge.com/9781439845592)

## Experimental Aerodynamics



*Edited by* **Stefano Discetti** Universidad Carlos III de Madrid, Spain, **Andrea Ianiro** Universidad Carlos III de Madrid, Spain

Experimental Aerodynamics provides an up to date study of this key area of aeronautical engineering. The field has undergone significant evolution with the development of 3D techniques, data processing methods, and the conjugation of simultaneous measurements of multiple quantities. Written for undergraduate and graduate students in Aerospace Engineering, the text features chapters by leading experts, with a consistent structure, level, and pedagogical approach. Fundamentals of measurements and recent research developments are introduced, supported by numerous examples, illustrations, and problems. The text will also be of interest to those studying mechanical systems, such as wind turbines.

CRC Press

March 2017 : 484pp

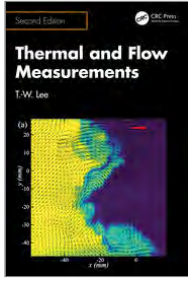
Hb: 978-1-498-70401-4 : **£200**

eBook: 978-1-315-37173-3

\* For full contents and more information, visit: [www.routledge.com/9781498704014](http://www.routledge.com/9781498704014)

2ND EDITION

## Thermal and Flow Measurements

**T.-W. Lee**

Thermal and Flow Measurements spans the basics of measurement methods to the advanced diagnostic applications in experiments and testing. It provides a foundational understanding of how to measure flow rates, temperature, pressure and other key parameters in fluid and thermal processes. This new edition features new sections on image-based particle velocimetry, high-speed velocimetry, satellite-based methods for scaled measurements, and AI in image analysis, advanced laser diagnostics, and remote sensing. The book is intended for senior undergraduate and graduate engineering students studying experimental methods and measurement.

CRC Press

December 2025 : 386pp

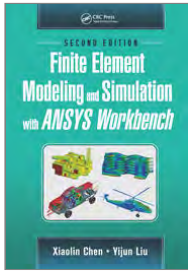
Hb: 978-1-041-00822-4 : £125

eBook: 978-1-003-61183-7

\* For full contents and more information, visit: [www.routledge.com/9781041008224](http://www.routledge.com/9781041008224)

2ND EDITION

## Finite Element Modeling and Simulation with ANSYS Workbench, Second Edition



**Xiaolin Chen** Washington State University, Vancouver, USA, **Yijun Liu** University of Cincinnati, Ohio, USA

Finite Element Modeling and Simulation with ANSYS Workbench 18, Second Edition, combines finite element theory with real-world practice. Providing an introduction to finite element modeling and analysis for those with no prior experience, and written by authors with a combined experience of 30 years teaching the subject, this text presents FEM formulations integrated with relevant hands-on instructions for using ANSYS Workbench 18. Incorporating the basic theories of FEA, simulation case studies, and the use of ANSYS Workbench in the modeling of engineering problems, the book also establishes the finite element method as a powerful numerical tool in engineering design and analysis.

CRC Press

September 2018 : 472pp

Hb: 978-1-138-48629-4 : £155

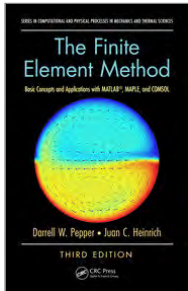
eBook: 978-1-351-04587-2

\* For full contents and more information, visit: [www.routledge.com/9781138486294](http://www.routledge.com/9781138486294)

3RD EDITION

## The Finite Element Method

Basic Concepts and Applications with MATLAB, MAPLE, and COMSOL, Third Edition



**Darrell W. Pepper** University of Nevada, Las Vegas, USA, **Juan C. Heinrich** University of New Mexico, Albuquerque, USA

*Series: Computational and Physical Processes in Mechanics and Thermal Sciences*

The third edition of the book introduces the fundamentals of the finite element method through simple examples and an applications-oriented approach using the latest computational tools. Using the transport equation for heat transfer as the foundation for the governing equations, text demonstrates the versatility of the method of weighted residuals for a wide range of applications including structural analysis and fluid flow. It introduces the boundary element method and meshless, or mesh-free, methods through two additional chapters. User-friendly computer codes written in MATLAB, MAPLE and FORTRAN are listed.

CRC Press

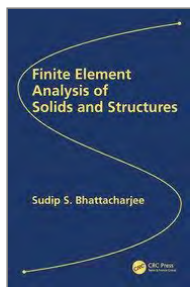
March 2017 : 628pp

Hb: 978-1-498-73860-6 : £155

eBook: 978-1-315-39510-4

\* For full contents and more information, visit: [www.routledge.com/9781498738606](http://www.routledge.com/9781498738606)

## Finite Element Analysis of Solids and Structures



**Sudip S. Bhattacharjee**

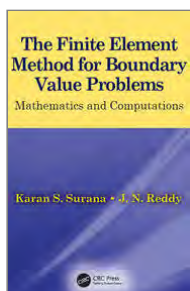
This textbook combines the theory of elasticity (advanced analytical treatment of stress analysis problems) and finite element methods (numerical details of finite element formulations) into one academic course derived from author's teaching, research, and applied work in automotive product development as well as in civil structural analysis. This work contains 12 discrete chapters that can be covered in a single semester university graduate course on linear elastic finite element analysis methods. The book also serves as a reference for practicing engineers working on design assessment and analysis of solids and structures.

CRC Press  
October 2024 : 340pp  
Pb: 978-1-032-04158-2 : £48.99  
Hb: 978-0-367-43705-3 : £125  
eBook: 978-1-003-02784-3

\* For full contents and more information, visit: [www.routledge.com/9781032041582](http://www.routledge.com/9781032041582)

## The Finite Element Method for Boundary Value Problems

Mathematics and Computations



**Karan S. Surana** University of Kansas, USA, **J. N. Reddy**  
Texas A&M University, College Station, USA

*Series: Applied and Computational Mechanics*

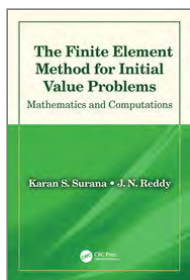
Written by two well-respected experts in the field, *The Finite Element Method for Boundary Value Problems: Mathematics and Computations* bridges the gap between applied mathematics and application-oriented studies of FEM. Mathematically rigorous, it uses examples, applications, and illustrations from various areas of engineering, applied mathematics, and the physical sciences. Readers are able to grasp the mathematical foundations of FEM, as well as its versatility; unlike many finite element texts this work is not limited to solid mechanics problems. Based around use of the finite element method for solving boundary value problems (BVPs), the text is organized around three categories of differential operators: self-adjoint, non-self adjoint, and non-linear. These operators are utilized with various methods of approximation, including the Galerkin, Petrov-Galerkin, and other methods.

CRC Press  
November 2016 : 824pp  
Hb: 978-1-498-78050-6 : £200  
eBook: 978-1-315-36571-8

\* For full contents and more information, visit: [www.routledge.com/9781498780506](http://www.routledge.com/9781498780506)

## The Finite Element Method for Initial Value Problems

Mathematics and Computations



**Karan S. Surana** University of Kansas, USA, **J. N. Reddy**  
Texas A&M University, College Station, USA

Unlike most finite element books that cover time dependent processes (IVPs) in a cursory manner, *The Finite Element Method for Initial Value Problems: Mathematics and Computations* focuses on the mathematical details as well as applications of space-time coupled and space-time decoupled finite element methods for IVPs. Space-time operator classification, space-time methods of approximation, and space-time calculus of variations are used to establish unconditional stability of space-time methods during the evolution. Space-time decoupled methods are also presented with the same rigor.

CRC Press  
October 2017 : 630pp  
Hb: 978-1-138-57637-7 : £205  
eBook: 978-1-351-27000-7

\* For full contents and more information, visit: [www.routledge.com/9781138576377](http://www.routledge.com/9781138576377)

## Advanced Flight Dynamics with Elements of Flight Control



**Nandan K. Sinha , N. Ananthkrishnan** IDEA Research Co. LTD, Pune, India

Advanced Flight Dynamics highlights the revised and corrected aerodynamic modeling. It uses bifurcation and continuation theory, especially the Extended Bifurcation Analysis (EBA) procedure, to blend the subjects of aircraft performance, trim and stability, and flight control into a unified whole. Present book is based exclusively on the use of bifurcation and continuation methods for flight dynamic analysis. Furthermore, it uses the generalized Nonlinear Dynamic Inversion (NDI) methodology to illustrate the fundamental principles of flight control. The NDI methodology when used with the EBA procedure allows us to demonstrate trim and stability in the closed-loop in a convenient manner.

CRC Press

June 2017 : 366pp

Pb: 978-1-138-74603-9 : **£86.99**

Hb: 978-1-498-74604-5 : **£170**

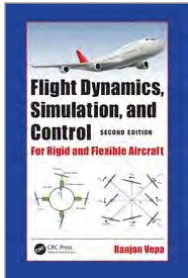
eBook: 978-1-315-15197-7

\* For full contents and more information, visit: [www.routledge.com/9781138746039](http://www.routledge.com/9781138746039)

2ND EDITION

## Flight Dynamics, Simulation, and Control

For Rigid and Flexible Aircraft



**Ranjan Vepa** School of Engineering and Material Science, Queen Mary, University of London, England, UK

Flight Dynamics, Simulation, and Control of Aircraft: For Rigid and Flexible Aircraft, Second Edition explains the basics of nonlinear aircraft dynamics and the principles of control configured aircraft design, as applied to rigid and flexible aircraft, drones, and UAVs. The book is intended for senior undergraduate and graduate engineering students taking Flight Dynamics and Flight Control courses. The book covers the conventional dynamics of rigid aircraft and examines the use of linear and non-linear model-based techniques and their applications to flight control. It also includes an updated Solutions Manual and PowerPoint slides for instructor use.

CRC Press

April 2023 : 642pp

Hb: 978-1-032-21003-2 : **£145**

eBook: 978-1-003-26631-0

\* For full contents and more information, visit: [www.routledge.com/9781032210032](http://www.routledge.com/9781032210032)

## Aircraft Design Concepts

An Introductory Course



**James DeLaurier**

Aircraft Design Concepts: An Introductory Course introduces the principles of aircraft design through a quantitative approach developed from the author's extensive experience in teaching aircraft design. Building on prerequisite courses, the text develops basic design skills and methodologies, while also explaining the underlying physics. Written for senior undergraduate and graduate students taking a single-semester course on Aircraft Design or Aircraft Performance, the book imparts both the technical knowledge and creativity needed for aircraft design. It addresses conventional tail-aft monoplanes, "flying-wing", biplane, and canard configurations.

CRC Press

May 2025 : 581pp

Pb: 978-1-032-11104-9 : **£52.99**

Hb: 978-1-138-03339-9 : **£155**

eBook: 978-1-315-22816-7

\* For full contents and more information, visit: [www.routledge.com/9781032111049](http://www.routledge.com/9781032111049)

2ND EDITION

## Flight Mechanics Modeling and Analysis



**Jitendra R. Raol** Ramaiah Instof Tech, India, **Jatinder Singh** CSIR-NAL, India

Flight Mechanics Modeling and Analysis comprehensively covers flight mechanics and flight dynamics using a systems approach. The book focuses on applied mathematics and control theory in its discussion of flight mechanics to build a strong foundation for solving design and control problems. The book is intended for senior undergraduate aerospace students taking Aircraft Mechanics, Flight Dynamics & Controls, and Flight Mechanics courses. The second edition includes two new chapters and coverage of aeroservoelastic topics, including concepts, control, and estimation. It also features end-of-chapter exercises and examples with a MATLAB® based approach.

CRC Press

March 2023 : 566pp

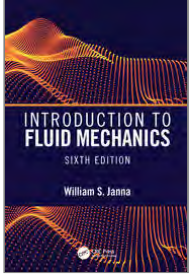
Hb: 978-1-032-27609-0 : **£120**

eBook: 978-1-003-29351-4

\* For full contents and more information, visit: [www.routledge.com/9781032276090](http://www.routledge.com/9781032276090)

6TH EDITION

## Introduction to Fluid Mechanics, Sixth Edition



**William S. Janna** University of Memphis, Tennessee, USA

Introduction to Fluid Mechanics, Sixth Edition, is intended for a first course in Fluid Mechanics, as taken by a range of engineering majors. Beginning with dimensions, units, and fluid properties, the text continues with explanation of key equations and coverage of the control-volume approach.

CRC Press

April 2020 : 754pp

Hb: 978-0-367-34127-5 : £175

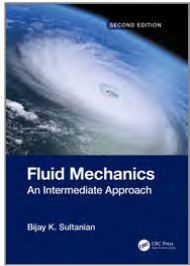
eBook: 978-0-429-32453-6

\* For full contents and more information, visit: [www.routledge.com/9780367341275](http://www.routledge.com/9780367341275)

2ND EDITION

## Fluid Mechanics

An Intermediate Approach



**Bijay K. Sultanian** University of Central Florida, FL

Fluid Mechanics: An Intermediate Approach helps readers develop a physics-based understanding of complex flows and mathematically model them with accurate boundary conditions for numerical predictions. The book includes numerous worked examples and end-of-chapter problems for student practice. It also discusses how to numerically model compressible flow over all Mach numbers in a variable-area duct, accounting for friction, heat transfer, rotation, internal choking, and normal shock formation. The book is intended for graduate mechanical and aerospace engineering students taking courses in Fluid Mechanics and Gas Dynamics.

CRC Press

January 2025 : 390pp

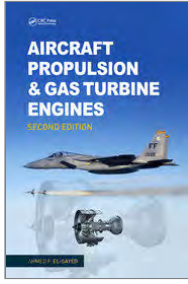
Hb: 978-1-032-35079-0 : £120

eBook: 978-1-032-88318-2 : £99.99

\* For full contents and more information, visit: [www.routledge.com/9781032350790](http://www.routledge.com/9781032350790)

2ND EDITION

## Aircraft Propulsion and Gas Turbine Engines



**Ahmed F. El-Sayed** Zagazig University, Egypt

This edition exhibits major and minor changes compared with the first edition. Major changes include the addition of three new topics: namely, piston engines together with integrated propeller coverage, pumps, and rocket propulsion. Rocket propulsion has been added to serve courses that include aerospace topics as well as aircraft. The book is divided into three parts rather than two as in its first edition. The first two parts are devoted to air breathing engines, while the third part covers non-air breathing or rocket engines.

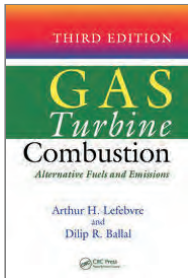
CRC Press  
June 2017 : 1476pp  
Hb: 978-1-466-59516-3 : **£185**  
eBook: 978-1-315-15674-3

\* For full contents and more information, visit: [www.routledge.com/9781466595163](http://www.routledge.com/9781466595163)

3RD EDITION

## Gas Turbine Combustion

Alternative Fuels and Emissions, Third Edition



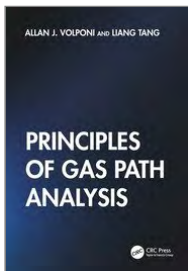
**Arthur H. Lefebvre , Dilip R. Ballal**

Reflecting the developments in gas turbine combustion technology that have occurred in the last decade, this third edition of a bestseller provides an up-to-date design manual and research reference on the design, manufacture, and operation of gas turbine combustors in applications ranging from aeronautical to power generation. Self-contained and only requiring a moderate amount of prior knowledge of physics and chemistry, the book covers aircraft engines and industrial gas turbines used in power generation. This edition discusses recent emissions regulations, explores how pollutants can be reduced, and includes a new chapter on alternative fuels and emissions.

CRC Press  
April 2010 : 558pp  
Hb: 978-1-420-08604-1 : **£235**  
eBook: 978-0-429-14104-1

\* For full contents and more information, visit: [www.routledge.com/9781420086041](http://www.routledge.com/9781420086041)

## Principles of Gas Path Analysis



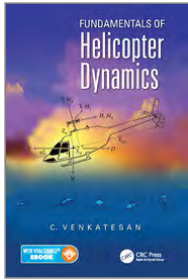
**Allan J. Volponi , Liang Tang**

Principles of Gas Path Analysis offers a self-contained reference of the concept and theory of Gas Path Analysis (GPA), as both a diagnostic and prognostic methodology for gas turbine engines. It provides a chronological account of the methodology as it evolved over the past 50 years. The text further introduces essential parameter corrections important for understanding the foundational principles of GPA. This book is intended for professional engineers engaged in the gas turbine industry and engine health management, including aircraft operators and maintainers. It will also benefit researchers studying gas turbine engine diagnostics and prognostics.

CRC Press  
December 2025 : 448pp  
Hb: 978-1-041-09267-4 : **£170**  
eBook: 978-1-003-64927-4

\* For full contents and more information, visit: [www.routledge.com/9781041092674](http://www.routledge.com/9781041092674)

## Fundamentals of Helicopter Dynamics



**C. Venkatesan**

This is an introductory book on helicopter dynamics. The aim of this book is to introduce the students/engineers to the basic principles of helicopter dynamics. The book focuses on three major topics: (i) rotor blade idealization and blade dynamics in flap, lag, and torsion modes; (ii) rotor blade aeroelastic stability (coupled flap-lag and coupled flap-torsion); (iii) coupled rotor-fuselage dynamics. It covers hover, forward flight, and other maneuver flights. Starting from basic physics of rotating systems, the equations of motion have been derived in vector form.

CRC Press

March 2017 : 338pp

Pb: 978-1-138-07438-5 : £66.99

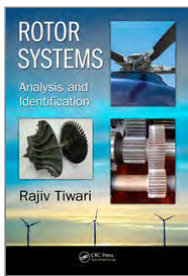
Hb: 978-1-466-56634-7 : £170

eBook: 978-0-429-19019-3

\* For full contents and more information, visit: [www.routledge.com/9781138074385](http://www.routledge.com/9781138074385)

## Rotor Systems

Analysis and Identification



**Rajiv Tiwari** Department of Mechanical Engineering,  
Indian Institute of Technology, Guwahati, India

With focus on understanding of rotor dynamics, the book starts with introductory material for finite element methods and moves to linear and non-linear vibrations, continuous systems, vibration measurement techniques, signal processing and error analysis, general identification techniques in engineering systems, including MATLAB analysis of simple rotors.

CRC Press

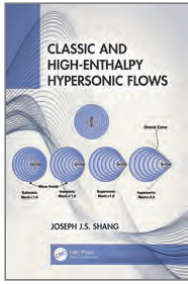
December 2017 : 1092pp

Hb: 978-1-138-03628-4 : £200

eBook: 978-1-315-23096-2

\* For full contents and more information, visit: [www.routledge.com/9781138036284](http://www.routledge.com/9781138036284)

## Classic and High-Enthalpy Hypersonic Flows



**Joseph J.S. Shang** Wright State University, USA

Classic and High-Enthalpy Hypersonic Flows presents a complete look at high-enthalpy hypersonic flow from a review of classic theories to future advances centering around the Born-Oppenheimer approximation, potential energy surface, and critical point for transition. The book is intended for graduate students studying advanced aerodynamics and aerospace and mechanical engineers researching high-speed aerospace vehicles and propulsion system, design, and evaluation. The state-of-the-art hypersonic flows are defined by a seamless integration of the classic gas dynamic kinetics with nonequilibrium chemical kinetics, quantum transitions, and radiative heat transfer.

CRC Press

April 2023 : 326pp

Hb: 978-1-032-07981-3 : **£105**

eBook: 978-1-003-21236-2

\* For full contents and more information, visit: [www.routledge.com/9781032079813](http://www.routledge.com/9781032079813)

## High-Lift Aerodynamics



**Jochen Wild** DLR, Germany

The book presents a detailed look at high-lift aerodynamics from various approaches. It discusses the physical limits of lift generation giving the lift generation potential, explains what is needed for an aircraft to fly safely, and analyzes how to improve its performance during take-off, approach, and landing. The book is intended for graduate students in aerospace programs studying advanced aerodynamics and aircraft design. It serves as a professional reference for practicing aerospace and mechanical engineers who are working on aircraft design issues related to take-off and landing. It includes a special chapter that is dedicated to the aerodynamic design of high-lift systems.

CRC Press

October 2024 : 307pp

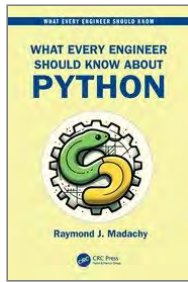
Pb: 978-1-032-11559-7 : **£48.99**

Hb: 978-1-032-11546-7 : **£125**

eBook: 978-1-003-22045-9

\* For full contents and more information, visit: [www.routledge.com/9781032115597](http://www.routledge.com/9781032115597)

## What Every Engineer Should Know About Python



**Raymond J. Madachy** Naval Postgraduate School,  
Monterey, California, USA

*Series: What Every Engineer Should Know*

Engineers of all disciplines can benefit from knowledge of Python. This powerful programming language can help engineers better leverage their skill set and do more sophisticated work in a shorter time. What Every Engineer Should Know About Python provides engineering students and practitioners with a simple and practical introduction to Python for technical programming and other empowering uses for engineering and scientific work, without computer science jargon. This practical and concise book serves as a self-contained introduction to engineers and readers from scientific disciplines new to programming or new to Python.

CRC Press

May 2025 : 318pp

Pb: 978-1-032-35818-5 : **£52.99**

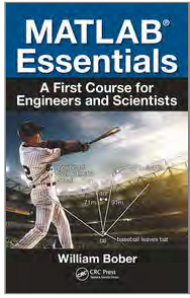
Hb: 978-1-032-35562-7 : **£130**

eBook: 978-1-003-33107-0

\* For full contents and more information, visit: [www.routledge.com/9781032358185](http://www.routledge.com/9781032358185)

## MATLAB® Essentials

A First Course for Engineers and Scientists



**William Bober** Florida Atlantic University, Boca Raton, USA

All disciplines of science and engineering use numerical methods for complex problem analysis, due to the highly mathematical nature of the field. Analytical methods alone are unable to solve many complex problems engineering students and professionals confront. Introduction to MATLAB® Programming for Engineers and Scientists examines the basic elements of code writing, and describes MATLAB® methods for solving common engineering problems and applications across the range of engineering disciplines. The text uses a class-tested learning approach and accessible two-color page design to guide students from basic programming to the skills needed for future coursework and engineering practice.

CRC Press

September 2017 : 275pp

Pb: 978-1-138-03237-8 : £155

Hb: 978-1-138-56328-5 : £170

eBook: 978-1-315-16200-3

\* For full contents and more information, visit: [www.routledge.com/9781138032378](http://www.routledge.com/9781138032378)

2ND EDITION

## Aircraft Engineering Principles



**Lloyd Dingle, Mike Tooley** Brooklands College, UK

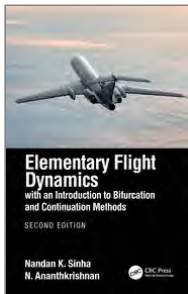
The essential text for anyone studying for licensed A&P mechanic or Aircraft Maintenance Engineering status. The book covers modules 1, 2, 3, 4, and 8 of JAR-66/ECAR-66 in full and to a depth appropriate for Aircraft Maintenance Certifying Technicians, and will also be a valuable reference for those taking programmes in JAR-147/ECAR-147 and FAR-147. The necessary mathematics, aerodynamics and electrical principles have been included to meet the requirements of introductory aerospace engineering courses. Numerous written and multiple-choice questions are provided at the end of each chapter to aid learning. Solutions are available to instructors.

Routledge  
August 2013 : 624pp  
Pb: 978-0-080-97084-4 : **£75.99**  
Hb: 978-1-138-42909-3 : **£200**  
eBook: 978-0-080-97085-1

\* For full contents and more information, visit: [www.routledge.com/9780080970844](http://www.routledge.com/9780080970844)

2ND EDITION

## Elementary Flight Dynamics with an Introduction to Bifurcation and Continuation Methods



**Nandan K. Sinha, N. Ananthkrishnan** IDEA Research Co. LTD, Pune, India

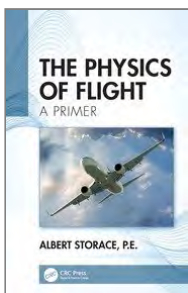
This book uses an optimal mix of physical insight and mathematical presentation to illustrate core concepts of professional aircraft flight dynamics. Updated version of the aerodynamic model is presented with the corrected definition of the rate (dynamic) derivatives, supported with examples of real-life airplanes and related data, supported by open-source computational tool. It introduces bifurcation and continuation methods as a tool for flight dynamic analysis. Second edition covers wind effects on aircraft modal dynamics and case studies of an airship dynamics, effects of morphing characteristics on the dynamic modes of a model rigid fixed-wing UAV with added data and solved examples.

CRC Press  
September 2023 : 389pp  
Pb: 978-0-367-56211-3 : **£62.99**  
Hb: 978-0-367-56207-6 : **£140**  
eBook: 978-1-003-09680-1

\* For full contents and more information, visit: [www.routledge.com/9780367562113](http://www.routledge.com/9780367562113)

## The Physics of Flight

A Primer



**Albert Storage** The American Society of Mechanical Engineers, United States

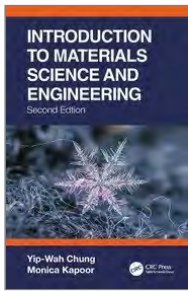
The Physics of Flight provides a comprehensive explanatory reference on the basic physics of flight with a clear presentation of the underlying mathematics. It presents a momentum-based explanation of lift without using Bernoulli's theorem. The book is for undergraduate aviation and aerospace students taking courses in Flight Dynamics, Introduction to Flight, and Physics of Flight. Disproving misconceptions, such as identifying centrifugal force experienced in an airplane undergoing maneuvers as a fictitious force, the book does not attribute weightlessness during airplane pitch over or experienced in an airplane performing a parabolic flight path to the effects of free fall.

CRC Press  
December 2023 : 84pp  
Hb: 978-1-032-48815-8 : **£97.99**  
eBook: 978-1-003-39091-6

\* For full contents and more information, visit: [www.routledge.com/9781032488158](http://www.routledge.com/9781032488158)

2ND EDITION

## Introduction to Materials Science and Engineering



**Yip-Wah Chung** Northwestern University, Evanston, Illinois, USA, **Monica Kapoor**

Updated to reflect the many societal and technological changes in the field since publication of the first edition, Introduction to Materials Science and Engineering, Second Edition offers an interdisciplinary view, emphasizing the importance of materials to engineering applications, and builds the basis needed to select, modify, and create materials to meet specific criteria. Written for advanced undergraduate students and readers interested in introductory materials science and engineering concepts, this concise textbook provides a strong foundation in MSE and its applications. The textbook offers a solutions manual and PowerPoint lecture slides for adopting professors.

CRC Press

November 2025 : 386pp

Pb: 978-1-032-12175-8 : **£52.99**

Hb: 978-1-032-10144-6 : **£94.99**

eBook: 978-1-003-22344-3 : **£84.99**

\* For full contents and more information, visit: [www.routledge.com/9781032121758](http://www.routledge.com/9781032121758)

## Engineering Dimensions, Units, and Conversions



**Yongjian Gu** United States Merchant Marine Academy,  
New York

Engineering Dimensions, Units, and Conversions delves into the analysis and application of the dimensions, units, and unit conversions in engineering practical use. It demonstrates the importance of dimensional homogeneity and unit consistency. Offering a comprehensive exploration of both primary and secondary units, the book presents detailed portrayals of various unit systems in both the English system and the SI system. The book is a valuable reference for practicing engineers and researchers engaged in engineering research and development. It will also be of interest to undergraduate and graduate students in all major engineering disciplines.

CRC Press

February 2025 : 272pp

Pb: 978-1-032-83362-0 : £52.99

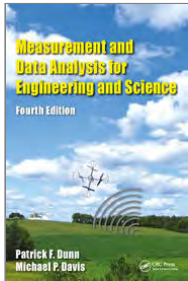
Hb: 978-1-032-83363-7 : £135

eBook: 978-1-003-50897-7

\* For full contents and more information, visit: [www.routledge.com/9781032833620](http://www.routledge.com/9781032833620)

4TH EDITION

## Measurement and Data Analysis for Engineering and Science



**Patrick F. Dunn, Michael P. Davis**

Measurement and Data Analysis for Engineering and Science, Fourth Edition, provides up-to-date coverage of experimentation methods in science and engineering. This edition adds five new "concept chapters" to introduce major areas of experimentation generally before the topics are treated in detail, to make the text more accessible for undergraduate students. These feature Measurement System Components, Assessing Measurement System Performance, Setting Signal Sampling Conditions, Analyzing Experimental Results, and Reporting Experimental Results. More practical examples, case studies, and a variety of homework problems have been added; and MATLAB and Simulink resources have been updated.

CRC Press

December 2017 : 588pp

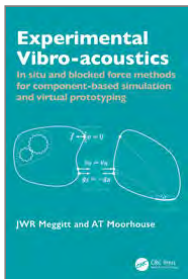
Hb: 978-1-138-05086-0 : £175

eBook: 978-1-315-16858-6

\* For full contents and more information, visit: [www.routledge.com/9781138050860](http://www.routledge.com/9781138050860)

## Experimental Vibro-acoustics

In situ and blocked force methods for component-based simulation and virtual prototyping



**Joshua Meggitt** University of Salford, UK, **Andrew Moorhouse** University of Salford, UK

This first comprehensive practical engineering guide to using vibro-acoustic data in a component-based approach to the analysis, simulation, virtual prototyping and 'digital twinning' of machines and mechanical systems. It gives a full set of practical and theoretical tools to characterise, combine and recombine components into virtual assemblies and predict vibration and audible sound, including the in situ blocked force method. Principles of sources, components, assemblies and interfaces are followed by techniques of measurement, data processing and uncertainties, then case studies and a detailed example for design engineers across transport, industrial and building engineering.

CRC Press

August 2025 : 490pp

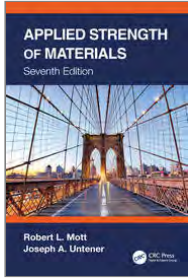
Hb: 978-1-032-47971-2 : £175

eBook: 978-1-003-39913-1

\* For full contents and more information, visit: [www.routledge.com/9781032479712](http://www.routledge.com/9781032479712)

7TH EDITION

## Applied Strength of Materials



**Robert L. Mott** University of Dayton, USA, **Joseph A. Untener** University of Dayton, USA

Introducing the theoretical background of the subject, with a strong visual component, the book equips the reader with problem-solving techniques. The updated seventh edition incorporates new technologies, with a pedagogical approach. It emphasizes realistic engineering applications for the analysis and design of structural members. A "Big Picture" section starts each chapter to help students grasp the overall objectives and their application in industrial applications. Step-by-step problem-solving approaches are included throughout the book. While calculus is used sparingly, detailed developments of important design-related formulas are provided.

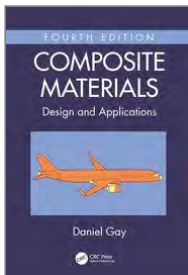
CRC Press  
July 2021 : 1172pp  
Pb: 978-1-032-00222-4 : **£69.99**  
Hb: 978-0-367-82078-7 : **£175**  
eBook: 978-1-003-17320-5

\* For full contents and more information, visit: [www.routledge.com/9781032002224](http://www.routledge.com/9781032002224)

4TH EDITION

## Composite Materials

Design and Applications



**Daniel Gay** Institut Clément Ader, University of Toulouse, France

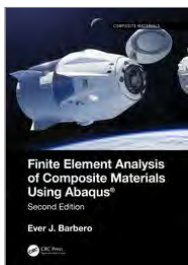
For decades, Composite Materials: Design and Applications has guided readers on the efficient design of structural composite parts and has illustrated challenges encountered in modern engineering practice. The Fourth Edition of this best-seller retains its pedagogical structure, featuring a technical level that rises in difficulty as the text progresses, while allowing each part to be explored independently, but has been updated to mirror recent advances and developments in manufacturing processes and applications. This book serves as a textbook for advanced students studying composite materials design, as well as a handy reference for industry professionals working with composite materials.

CRC Press  
September 2025 : 640pp  
Pb: 978-1-032-05048-5 : **£52.99**  
Hb: 978-1-032-04308-1 : **£140**  
eBook: 978-1-003-19578-8

\* For full contents and more information, visit: [www.routledge.com/9781032050485](http://www.routledge.com/9781032050485)

2ND EDITION

## Finite Element Analysis of Composite Materials using Abaqus®



**Ever J. Barbero**, **Ever J. Barbero** West Virginia University, Morgantown, USA

*Series: Composite Materials*

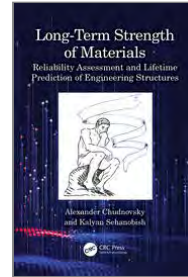
Developed from the author's course on advanced mechanics of composite materials, Finite Element Analysis of Composite Materials with Abaqus™ shows how powerful finite element tools address practical problems in the structural analysis of composites. This Second Edition updates all examples, sample code, and problems to Abaqus 2020. Aimed at advanced students and professional engineers, this text features 60+ fully developed examples, 80+ end-of-chapter exercises, and 50+ pieces of Abaqus pseudo-code that illustrate solutions to example problems. A companion website offers relevant model files for download, enabling readers to easily reproduce the examples and complete the exercises.

CRC Press  
May 2023 : 571pp  
Hb: 978-0-367-62145-2 : **£105**  
eBook: 978-1-003-10815-3

\* For full contents and more information, visit: [www.routledge.com/9780367621452](http://www.routledge.com/9780367621452)

## Long-Term Strength of Materials

Reliability Assessment and Lifetime Prediction of Engineering Structures



**Alexander Chudnovsky** University of Illinois at Chicago, USA, **Kalyan Sehanobish** The Dow Chemical Company, USA

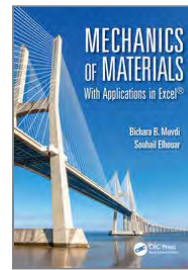
This textbook introduces the thermodynamics of irreversible processes along with entropy to address the time dependency of fracture. Working from observations of structural failure, the book identifies the principal failure types such as brittle damage and ductile failure. It then addresses the life of a structure in a specific environment and load condition, using irreversible thermodynamics and the entropy criterion to address cooperative fracture, and novel statistical fracture mechanics to address solo fracture. The book is ideal for graduate students and design engineers in civil and materials engineering, as well as mechanical and chemical engineering.

CRC Press  
August 2023 : 224pp  
Pb: 978-1-032-41813-1 : **£52.99**  
Hb: 978-1-032-41814-8 : **£145**  
eBook: 978-1-003-35984-5

\* For full contents and more information, visit: [www.routledge.com/9781032418131](http://www.routledge.com/9781032418131)

## Mechanics of Materials

With Applications in Excel



**Bichara B. Muvti** Bradley University, Peoria, Illinois, USA, **Souhail Elhouar** Bradley University, Peoria, Illinois, USA

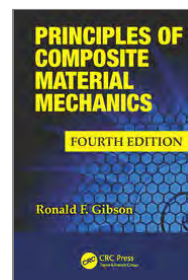
This text covers the fundamentals of the mechanics of materials—or strength of materials—in a clear and easily understandable way, incorporating numerous examples, homework problems, and review problems to ensure comprehension. It also instills practical skills for developing Microsoft® Excel® applications to solve mechanics of materials problems using numerical techniques. The book includes editable Excel spreadsheets representing all the examples featured in the text, PowerPoint® lecture slides, multimedia simulations, graphics files, and a solutions manual with qualifying course adoption.

CRC Press  
June 2016 : 723pp  
Hb: 978-1-466-57071-9 : **£135**  
eBook: 978-1-315-37431-4

\* For full contents and more information, visit: [www.routledge.com/9781466570719](http://www.routledge.com/9781466570719)

4TH EDITION

## Principles of Composite Material Mechanics



**Ronald F. Gibson** University of Nevada, Reno, USA

*Series: Mechanical Engineering*

This book covers a unique blend of classical and modern mechanics of composites technologies. The fourth edition reflects the current state of the art, fresh insight gleaned from the author's ongoing composites research, and pedagogical improvements based on feedback from students, colleagues, and the author's own course notes. New worked-out examples and homework problems are added in most chapters, example problems and homework problems are now integrated within the chapters, and answers to selected homework problems are featured in the back of the book.

CRC Press  
February 2016 : 698pp  
Hb: 978-1-498-72069-4 : **£140**  
eBook: 978-0-429-19058-2

\* For full contents and more information, visit: [www.routledge.com/9781498720694](http://www.routledge.com/9781498720694)

## Design of Guidance and Control Systems for Tactical Missiles



**Qi Zaikang , Lin Defu**

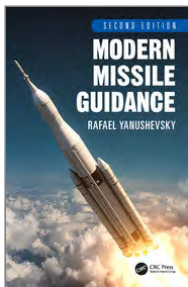
This book presents a modern, comprehensive study of the latest design methods for tactical missile guidance and control. It analyzes autopilot designs, seeker system designs, guidance laws and theories, and the internal and external disturbances affecting the performance factors of missile guidance control systems. The text combines detailed examination of key theories with practical coverage of methods for advanced missile guidance control systems. It is valuable both for college professors and students, as well as engineers and researchers around the world who work in the area of tactical missile guidance and control.

CRC Press  
September 2019 : 254pp  
Hb: 978-0-367-26041-5 : £155  
eBook: 978-0-429-29120-3

\* For full contents and more information, visit: [www.routledge.com/9780367260415](http://www.routledge.com/9780367260415)

2ND EDITION

## Modern Missile Guidance



**Rafael Yanushevsky** Research & Technology Consulting,  
Bethesda, Maryland, USA

Missile Guidance, Second Edition provides a timely survey of missile control and guidance theory, based on extensive work the author has done using the Lyapunov approach. This new edition also presents the Lyapunov-Bellman approach for choosing optimal parameters of the guidance laws, and direct and inverse optimal problems are considered. This material is important for readers working in the areas of optimization and optimal theory. This edition also contains updated coverage of guidance and control system components, since the efficiency of guidance laws depends on their realization. The text concludes with information on the new generation of intercept systems now in development.

CRC Press  
October 2018 : 341pp  
Hb: 978-0-815-38486-1 : £195  
eBook: 978-1-351-20295-4

\* For full contents and more information, visit: [www.routledge.com/9780815384861](http://www.routledge.com/9780815384861)

## Mathematical Modelling of Aerospace Dynamic Systems with Practical Applications



**Jitendra R. Raol** Ramaiah Inst of Tech, India, **V.P.S. Naidu**

This book provides mathematical models for several aerospace dynamic systems: aircraft, rotorcraft, missile, UAVs, MAVs, autonomous underwater vehicles (AUVs), and satellite-coordinate systems. It discusses numerous applications in aircraft/helicopter parameter estimation, guidance and navigation of these vehicles, underwater object search, aerial terrain mapping, and satellite orbit determination. The book is intended for senior undergraduate mechanical and aerospace engineering students taking courses in Aerospace Systems and Dynamics, Flight Dynamics and Control, and Dynamical Systems and Estimation.

CRC Press

March 2025 : 336pp

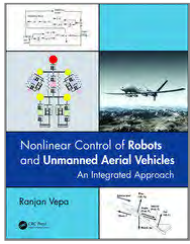
Hb: 978-1-032-55275-0 : **£120**

eBook: 978-1-003-42986-9

\* For **full contents** and more information, visit: [www.routledge.com/9781032552750](http://www.routledge.com/9781032552750)

## Nonlinear Control of Robots and Unmanned Aerial Vehicles

An Integrated Approach



**Ranjan Vepa** School of Engineering and Material Science, Queen Mary, University of London, England, UK

Nonlinear Control of Robots and Unmanned Aerial Vehicles: An Integrated Approach provides a step-by-step approach to designing control systems for robot manipulators and unmanned aerial vehicles (UAVs). Integration of sophisticated control technology is vital to the design of new emerging mobile vehicles, such as personal air vehicles (PAVs) and the next generation of UAVs. Similar technologies are used in robotic manipulators, such as the PUMA range now used in automated manufacturing systems. This book shows the similarities within unmanned aerial vehicle and robotic system design, and will serve as a vital resource in the design of new products and systems.

CRC Press

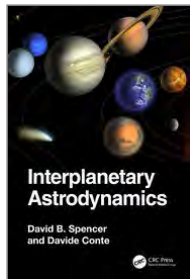
August 2016 : 562pp

Hb: 978-1-498-76704-0 : £200

eBook: 978-1-315-36737-8

\* For full contents and more information, visit: [www.routledge.com/9781498767040](http://www.routledge.com/9781498767040)

## Interplanetary Astrodynamics



**David B. Spencer** The Pennsylvania State University, USA  
**, Davide Conte** Embry-Riddle Aeronautical University,  
USA

Focusing on the orbital mechanics tools and techniques necessary to design, predict, and guide a trajectory of a spacecraft traveling between two or more bodies in a solar system, this book covers the dynamical theory necessary for describing the motion of bodies in space, examines the N-body problem, and shows applications using this theory for designing interplanetary missions. Written for instructors and graduate students in Aerospace and Mechanical Engineering, the book provides advanced details of interplanetary trajectory design, navigation, and targeting.

CRC Press

May 2023 : 402pp

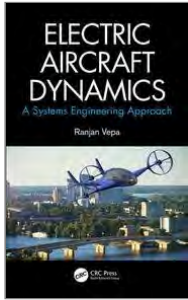
Hb: 978-0-367-75970-4 : **£99.99**

eBook: 978-1-003-16507-1

\* For full contents and more information, visit: [www.routledge.com/9780367759704](http://www.routledge.com/9780367759704)

## Electric Aircraft Dynamics

A Systems Engineering Approach



**Ranjan Vepa** School of Engineering and Material Science, Queen Mary, University of London, England, UK

This book surveys the engineering sciences that underpin the dynamics, control, monitoring, and design of electric propulsion systems for aircraft. It is structured to appeal to readers with a science and engineering background, and is modular in format. Taken as a whole, this ground-breaking text equips professional and student readers with a solid foundation for advanced work in this emerging field. The closely linked chapters present descriptive material and relevant mathematical modeling techniques, followed by numerous design exercises that cover the assembly of systems that deliver, synergistically, the desired performance outcomes.

CRC Press

January 2022 : 350pp

Pb: 978-0-367-51358-0 : **£57.99**

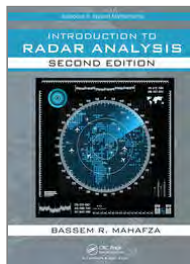
Hb: 978-0-367-19424-6 : **£150**

eBook: 978-0-429-20231-5

\* For full contents and more information, visit: [www.routledge.com/9780367513580](http://www.routledge.com/9780367513580)

2ND EDITION

## Introduction to Radar Analysis



**Bassem R. Mahafza**

*Series: Advances in Applied Mathematics*

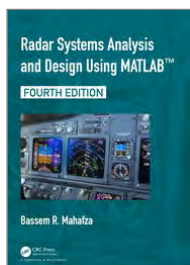
The 2nd Edition of this popular textbook is a major revision. It is written within the context of communication theory as well as the theory of signals and noise. Part I bridges the gap between communication theory, signals and noise and radar system analysis. Part II is on radar subsystems and associated topics and includes most common radar signal processing techniques, the theory of radar detection, coherent and non-coherent integration, and radar clutter analysis. Part III of this Edition will analyze special topics in radar systems. Many new exercises are included and the author provides comprehensive easy to follow mathematical derivations of all key equations and formulas.

Chapman & Hall  
January 2023 : 460pp  
Pb: 978-1-032-47646-9 : **£49.99**  
Hb: 978-1-498-76107-9 : **£155**  
eBook: 978-1-315-11934-2

\* For **full contents** and more information, visit: [www.routledge.com/9781032476469](http://www.routledge.com/9781032476469)

4TH EDITION

## Radar Systems Analysis and Design Using MATLAB



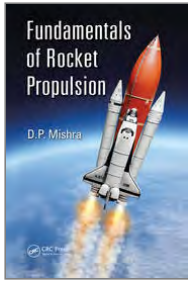
**Bassem R. Mahafza**

Reorganized, expanded, and updated, the 4th edition, continues to help graduate students and engineers understand the many issues involved in radar systems design and analysis. It presents a top-level comprehensive overview of radar, radar components and radar functionality in the context of radar signal or waveform. Additionally, dedicated MATLAB functions/programs will be developed for each chapter to further enhance the understanding of the theory, and provide a source for establishing radar system design requirements.

Chapman & Hall  
March 2022 : 690pp  
Hb: 978-0-367-50793-0 : **£125**  
eBook: 978-1-003-05128-2

\* For **full contents** and more information, visit: [www.routledge.com/9780367507930](http://www.routledge.com/9780367507930)

## Fundamentals of Rocket Propulsion



**DP Mishra**

Designed and developed as an introductory text on the fundamental aspects of rocket propulsion, this textbook comprises of ten chapters ranging from brief introduction and elements of rocket propulsion, aerothermodynamics to solid, liquid and hybrid propellant rocket engines with chapter on electrical propulsion. Worked out examples are provided at the end of chapter for understanding uncertainty analysis and including solutions manual for instructors.

CRC Press

June 2020 : 482pp

Pb: 978-0-367-57329-4 : **£51.99**

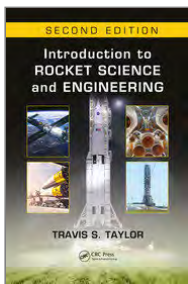
Hb: 978-1-498-78535-8 : **£135**

eBook: 978-1-315-17599-7

\* For full contents and more information, visit: [www.routledge.com/9780367573294](http://www.routledge.com/9780367573294)

2ND EDITION

## Introduction to Rocket Science and Engineering



**Travis S. Taylor** Author and Consultant, Huntsville, Alabama USA

Introduction to Rocket Science and Engineering, Second Edition, presents the history and basics of rocket science, and examines design, experimentation, testing, and applications. Exploring how rockets work, the book covers the concepts of thrust, momentum, impulse, and the rocket equation, along with the rocket engine, its components, and the physics involved in the generation of the propulsive force. The text also presents several different types of rocket engines and discusses the testing of rocket components, subsystems, systems, and complete products. The final chapter stresses the importance for rocket scientists and engineers to creatively deal with the complexities of rocketry.

CRC Press

July 2017 : 352pp

Hb: 978-1-498-77232-7 : **£125**

eBook: 978-1-315-12095-9

\* For full contents and more information, visit: [www.routledge.com/9781498772327](http://www.routledge.com/9781498772327)

## Resilient Space Systems Design

An Introduction



**Ron Burch** The Boeing Company, Boeing Space & Launch, California, USA

Presenting a fundamental definition of resilience, the book examines the concept of resilience as it relates to space system design. The book establishes the required definitions, relates its place to existing state-of-the-art systems engineering practices, and explains the exact process and mathematical tools used to achieve a resilient design. The book begins with space systems basics prior to exploring the details of resilience, and does not assume that the reader has an extensive background in the subject matter of resilience. Engineers and architects in the areas of aerospace, space systems, and space communications will be most interested in the content.

CRC Press

September 2019 : 192pp

Hb: 978-0-367-14848-5 : £125

eBook: 978-0-429-05360-3

\* For full contents and more information, visit: [www.routledge.com/9780367148485](http://www.routledge.com/9780367148485)

2ND EDITION

## Spacecraft Power Systems



**Mukund R. Patel** U.S. Merchant Marine Academy, USA,  
**Omid Beik** North Dakota State University, USA

Spacecraft Power Systems presents comprehensive coverage of the fundamentals, design-trades, components, controls, and operations of spacecraft power systems. With new and updated chapters, sections, and discussions, the second edition covers current high-voltage MW-scale electric propulsion, updated PV and battery systems, spacecraft power components, and power electronics. The book is intended for senior undergraduate and graduate mechanical, aerospace, and electrical engineering students taking courses in Space Systems, Space Engineering, and Spacecraft Power Systems.

CRC Press

May 2026 : 362pp

Pb: 978-1-032-38352-1 : £52.99

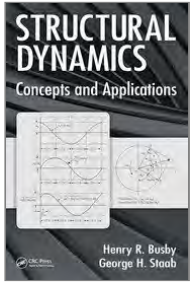
Hb: 978-1-032-38348-4 : £175

eBook: 978-1-003-34460-5

\* For full contents and more information, visit: [www.routledge.com/9781032383521](http://www.routledge.com/9781032383521)

## Structural Dynamics

Concepts and Applications



**Henry R. Busby** Ohio State University, Columbus, USA,  
**George H. Staab** Ohio State University, Columbus, USA

Structural Dynamics: Concepts and Applications focuses on dynamic problems in mechanical, civil and aerospace engineering through the equations of motion. The text explains structural response from dynamic loads and the modeling and calculation of dynamic responses in structural systems. A range of applications is included, from various engineering disciplines. Coverage progresses consistently from basic to advanced, with emphasis placed on analytical methods and numerical solution techniques. Stress analysis is discussed, and MATLAB applications are integrated throughout. A solutions manual and figure slides for classroom projection are available for instructors.

CRC Press

August 2017 : 598pp

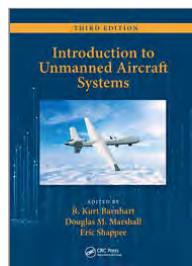
Hb: 978-1-498-76594-7 : £195

eBook: 978-1-315-12002-7

\* For full contents and more information, visit: [www.routledge.com/9781498765947](http://www.routledge.com/9781498765947)

3RD EDITION

## Introduction to Unmanned Aircraft Systems



*Edited by* **R. Kurt Barnhart** Kansas State Polytechnic, Salina, USA, **Douglas M. Marshall** TrueNorth Consulting LLC, USA, **Eric Shappee** Kansas State Polytechnic, Salina, USA

Featuring chapters by leading experts, this fully updated bestseller fills the need for an accessible and effective university textbook. Focussing on the civilian applications of UAS, the text begins with an historical overview of unmanned aerial vehicles, and proceeds to examine each major UAS subsystem. Its combination of understandable technical coverage and up-to-date information on policy and regulation makes the text appropriate for both Aerospace Engineering and Aviation programs.

CRC Press

March 2021 : 524pp

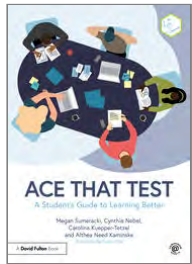
Hb: 978-0-367-36659-9 : **£140**

eBook: 978-0-429-34749-8

\* For full contents and more information, visit: [www.routledge.com/9780367366599](http://www.routledge.com/9780367366599)

## Ace That Test

A Student's Guide to Learning Better



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

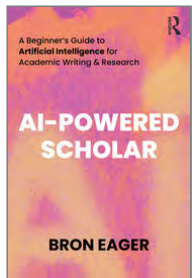
This exciting new text reveals the effective study strategies that will help you to use your time more efficiently, ace your tests, and retain information over time. In full colour and accompanied by beautifully illustrated graphics, *Ace That Test* offers evidence-based learning strategies that students 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 : **£18.99**  
Hb: 978-1-032-35586-3 : **£145**  
eBook: 978-1-003-32753-0

\* For full contents and more information, visit: [www.routledge.com/9781032355856](http://www.routledge.com/9781032355856)

## AI-Powered Scholar

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



**Bron Eager** University of Tasmania, Australia

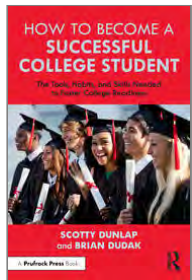
This book is a practical and comprehensive guide on using AI tools to streamline and optimise the academic writing and research process. Through a series of step-by-step instructions and practical tips, this book provides readers with the knowledge and tools they need to leverage the power of AI to produce 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 : **£19.99**  
Hb: 978-1-032-66525-2 : **£145**  
eBook: 978-1-032-66527-6

\* For full contents and more information, visit: [www.routledge.com/9781032665269](http://www.routledge.com/9781032665269)

## 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

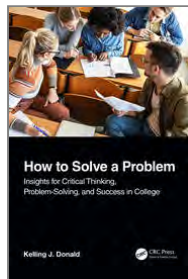
This book is your one-stop shop for the academic tools and habits needed to make your transition from high school to college a resounding success! The shift from high school to college can be a challenge, with many students finding the skills that had previously worked so well no longer seem to be enough. *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 : **£14.99**  
eBook: 978-1-003-41268-7

\* For full contents and more information, visit: [www.routledge.com/9781032524092](http://www.routledge.com/9781032524092)

## 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 : **£26.99**  
Hb: 978-1-032-20368-3 : **£66.99**  
eBook: 978-1-003-26334-0

\* For full contents and more information, visit: [www.routledge.com/9781032203614](http://www.routledge.com/9781032203614)

## 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 than trivial studies, but can instead produce robust findings that have real-world implications.

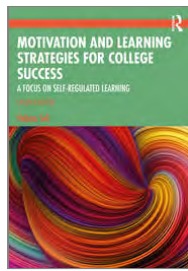
Routledge  
April 2022 : 278pp  
Pb: 978-1-032-06245-7 : **£30.99**  
Hb: 978-1-032-05975-4 : **£155**  
eBook: 978-1-003-20136-6

\* For full contents and more information, visit: [www.routledge.com/9781032062457](http://www.routledge.com/9781032062457)

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 : **£54.99**  
Hb: 978-1-032-47255-3 : **£155**  
eBook: 978-1-003-38527-1

\* For full contents and more information, visit: [www.routledge.com/9781032470207](http://www.routledge.com/9781032470207)

2ND EDITION

## Stress, Cognition and Health

Real World Examples and Practical Applications



**Tony Cassidy**

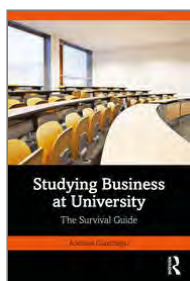
The new edition of this bestselling textbook provides a comprehensive overview of the latest research on stress and health, moving beyond the former deficit model to a resource growth model. It examines all aspects of the topic, from how the external world and the impact of technology makes demands upon 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 : **£39.99**  
Hb: 978-0-367-56634-0 : **£140**  
eBook: 978-1-003-09873-7

\* For full contents and more information, visit: [www.routledge.com/9780367564186](http://www.routledge.com/9780367564186)

## Studying Business at University

The Survival Guide



**Andreas Giazitzoglu**

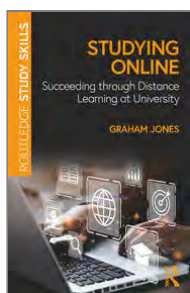
Studying Business at University provides new and prospective undergraduates with a concise and easy-to-read insight into what life is like as a business student today. Written in the style of an email dialogue between two students, it informs and reassures the new business student who is seeking advice 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 : **£20.99**  
Hb: 978-1-032-74034-8 : **£155**  
eBook: 978-1-003-46739-7

\* For full contents and more information, visit: [www.routledge.com/9781032740423](http://www.routledge.com/9781032740423)

## Studying Online

Succeeding through Distance Learning at University



**Graham Jones** University of Buckingham, UK

Series: *Routledge Study Skills*

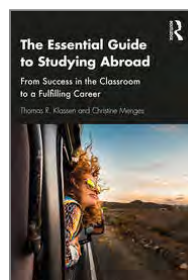
Helping you get to grips with online learning, this book contains a wealth of practical tips and strategies that will make studying online easier. Covering the advantages of online learning as well as the problems you might face, this book provides tried and tested advice to help you overcome those difficulties 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 : **£18.99**  
Hb: 978-1-032-19538-4 : **£140**  
eBook: 978-1-003-25969-5

\* For full contents and more information, visit: [www.routledge.com/9781032195391](http://www.routledge.com/9781032195391)

## The Essential Guide to Studying Abroad

From Success in the Classroom to a Fulfilling Career



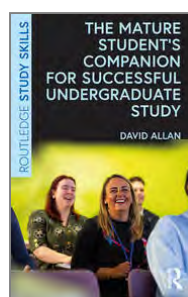
**Thomas R. Klassen** York University, Canada, **Christine Menges** WHU – Otto Beisheim School of Management, Germany

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 : **£35.99**  
Hb: 978-0-367-23515-4 : **£155**  
eBook: 978-0-429-28011-5

\* For full contents and more information, visit: [www.routledge.com/9780367235161](http://www.routledge.com/9780367235161)

## The Mature Student's Companion for Successful Undergraduate Study



**David Allan** Edge Hill University, UK

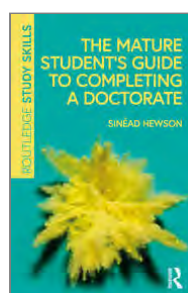
Series: *Routledge Study Skills*

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 : 170pp  
Pb: 978-1-032-61924-8 : **£17.99**  
Hb: 978-1-032-61923-1 : **£155**  
eBook: 978-1-032-61925-5

\* For full contents and more information, visit: [www.routledge.com/9781032619248](http://www.routledge.com/9781032619248)

## The Mature Student's Guide to Completing a Doctorate



**Sinéad Hewson**

Series: *Routledge Study Skills*

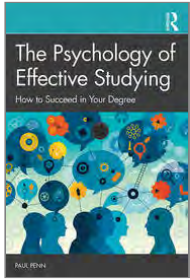
Carefully structured to make it accessible and easy to follow, this thought-provoking book encourages the reader to facilitate a dialogue across disciplines so that unconventional students are acknowledged and can discover a successful path towards admission and PhD completion. It is a must-read for 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 : **£17.99**  
Hb: 978-1-032-53801-3 : **£145**  
eBook: 978-1-003-41369-1

\* For full contents and more information, visit: [www.routledge.com/9781032538006](http://www.routledge.com/9781032538006)

## The Psychology of Effective Studying

How to Succeed in Your Degree



**Paul Penn** Independent Scholar, UK

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 : **£23.99**

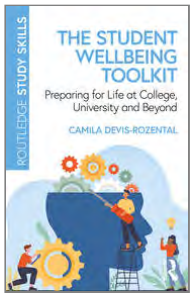
Hb: 978-1-138-57090-0 : **£140**

eBook: 978-0-203-70311-3

\* For full contents and more information, visit: [www.routledge.com/9781138570924](http://www.routledge.com/9781138570924)

## 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 : **£18.99**

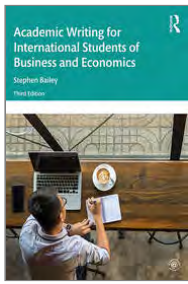
Hb: 978-1-032-32965-9 : **£155**

eBook: 978-1-003-31754-8

\* For full contents and more information, visit: [www.routledge.com/9781032329666](http://www.routledge.com/9781032329666)

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 : **£30.99**  
Hb: 978-0-367-28030-7 : **£155**  
eBook: 978-0-429-29927-8

\* For full contents and more information, visit: [www.routledge.com/9780367280314](http://www.routledge.com/9780367280314)

## 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 : **£24.99**  
Hb: 978-0-367-44538-6 : **£155**  
eBook: 978-1-003-01021-0

\* For full contents and more information, visit: [www.routledge.com/9780367445393](http://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

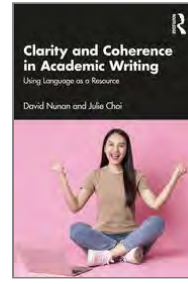
The sixth edition of this popular book has been written to help international students succeed in writing essays and reports for their English-language academic courses. Thoroughly revised and updated in a streamlined format making it even easier to use, it is designed to let readers find the support 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 : **£28.99**  
Hb: 978-1-032-83418-4 : **£155**  
eBook: 978-1-003-50926-4

\* For full contents and more information, visit: [www.routledge.com/9781032834177](http://www.routledge.com/9781032834177)

## 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 : **£29.99**  
Hb: 978-1-032-01559-0 : **£140**  
eBook: 978-1-003-17909-2

\* For full contents and more information, visit: [www.routledge.com/9781032013824](http://www.routledge.com/9781032013824)

## Demystifying Academic Writing

Genres, Moves, Skills, and Strategies



**Zhihui Fang**

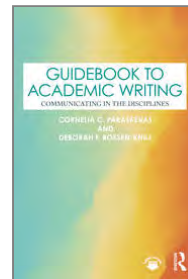
Accessible and informative, this book is designed to enhance the capacity of graduate and undergraduate students, as well as early career scholars, to write for academic purposes. Fang describes the key genres and types of academic writing, explains common rhetorical moves, offers linguistic strategies 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 : **£41.99**  
Hb: 978-0-367-67508-0 : **£155**  
eBook: 978-1-003-13161-8

\* For full contents and more information, visit: [www.routledge.com/9780367653545](http://www.routledge.com/9780367653545)

## Guidebook to Academic Writing

Communicating in the Disciplines



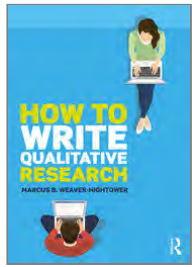
**Cornelia C. Paraskevas, Deborah F. Rossen-Knill**

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

Routledge  
July 2024 : 240pp  
Pb: 978-1-032-48470-9 : **£39.99**  
Hb: 978-1-032-48472-3 : **£155**  
eBook: 978-1-003-38924-8

\* For full contents and more information, visit: [www.routledge.com/9781032484709](http://www.routledge.com/9781032484709)

## 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.

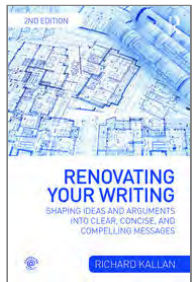
Routledge  
October 2018 : 282pp  
Pb: 978-1-138-06631-1 : **£45.99**  
Hb: 978-1-138-06630-4 : **£155**  
eBook: 978-1-315-15926-3

\* For full contents and more information, visit: [www.routledge.com/9781138066311](http://www.routledge.com/9781138066311)

2ND EDITION

## Renovating Your Writing

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



**Richard Kallan**

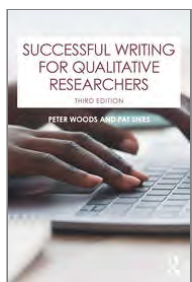
*Renovating Your Writing* outlines the principles of effective composition by focusing on the essential skill set and mindset every successful writer must possess. Now in its second edition, this novel text provides readers with unique strategies for crafting and revising their writing, whether for school, 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 : **£31.99**  
Hb: 978-1-138-72676-5 : **£155**  
eBook: 978-1-315-18660-3

\* For full contents and more information, visit: [www.routledge.com/9781138726772](http://www.routledge.com/9781138726772)

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 : **£30.99**  
Hb: 978-0-367-69822-5 : **£155**  
eBook: 978-1-003-14340-6

\* For full contents and more information, visit: [www.routledge.com/9780367698232](http://www.routledge.com/9780367698232)

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.

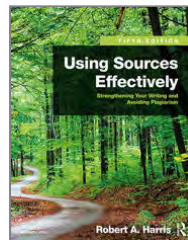
Routledge  
March 2024 : 252pp  
Pb: 978-1-032-72170-5 : **£23.99**  
Hb: 978-1-032-72173-6 : **£155**  
eBook: 978-1-032-72172-9

\* For full contents and more information, visit: [www.routledge.com/9781032721705](http://www.routledge.com/9781032721705)

5TH EDITION

## Using Sources Effectively

Strengthening Your Writing and Avoiding Plagiarism



**Robert A. 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.

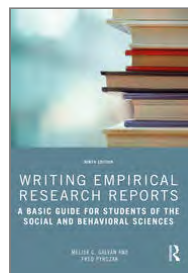
Routledge  
January 2017 : 210pp  
Pb: 978-1-138-28968-0 : **£60.99**  
Hb: 978-1-138-28966-6 : **£185**  
eBook: 978-1-315-26706-7

\* For full contents and more information, visit: [www.routledge.com/9781138289680](http://www.routledge.com/9781138289680)

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

*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.

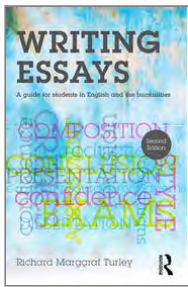
Routledge  
October 2023 : 196pp  
Pb: 978-1-032-13680-6 : **£59.99**  
Hb: 978-1-032-13678-3 : **£145**  
eBook: 978-1-003-23041-0

\* For full contents and more information, visit: [www.routledge.com/9781032136806](http://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 : **£23.99**  
Hb: 978-1-138-91668-5 : **£155**  
eBook: 978-1-315-68944-9

\* For full contents and more information, visit: [www.routledge.com/9781138916692](http://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.

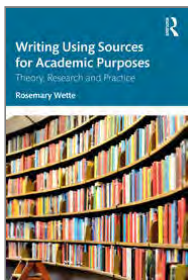
Writing Literature Reviews provides students with practical guidelines for the complex process of writing literature reviews for course projects, theses or dissertations, and research manuscripts for publication. It is ideal for use in research methods courses, thesis/dissertation preparation courses, 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 : **£66.99**  
Hb: 978-1-032-32862-1 : **£190**  
eBook: 978-1-003-31709-8

\* For full contents and more information, visit: [www.routledge.com/9781032328683](http://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.

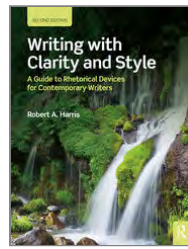
Routledge  
December 2020 : 164pp  
Pb: 978-0-367-17592-4 : **£41.99**  
Hb: 978-0-367-17590-0 : **£155**  
eBook: 978-0-429-05751-9

\* For full contents and more information, visit: [www.routledge.com/9780367175924](http://www.routledge.com/9780367175924)

2ND EDITION

## Writing with Clarity and Style

A Guide to Rhetorical Devices for Contemporary Writers



**Robert A. Harris**

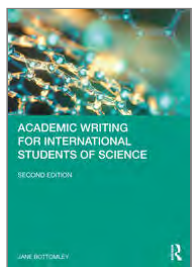
Writing with Clarity and Style, 2nd Edition, will help you to improve your writing dramatically. The book shows you how to use dozens of classical rhetorical devices to bring power, clarity, and effectiveness to your writing. You will also learn about writing styles, authorial personas, and sentence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

Routledge  
December 2017 : 232pp  
Pb: 978-1-138-56009-3 : **£40.99**  
Hb: 978-1-138-56010-9 : **£155**  
eBook: 978-0-203-71204-7

\* For full contents and more information, visit: [www.routledge.com/9781138560093](http://www.routledge.com/9781138560093)

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 : **£30.99**

Hb: 978-0-367-63271-7 : **£155**

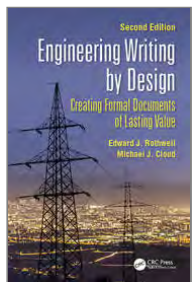
eBook: 978-1-003-11857-2

\* For full contents and more information, visit: [www.routledge.com/9780367632724](http://www.routledge.com/9780367632724)

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 : **£55.99**

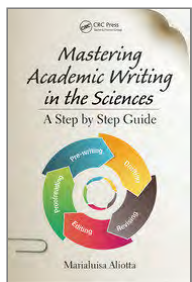
Hb: 978-0-367-89682-9 : **£125**

eBook: 978-0-429-32769-8

\* For full contents and more information, visit: [www.routledge.com/9780367347543](http://www.routledge.com/9780367347543)

## 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 : **£52.99**

Hb: 978-1-138-74288-8 : **£140**

eBook: 978-1-351-00214-1

\* For full contents and more information, visit: [www.routledge.com/9781498701471](http://www.routledge.com/9781498701471)

3RD EDITION

## Technical Writing

A Practical Guide for Engineers, Scientists, and Nontechnical Professionals



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

Series: *What Every Engineer Should Know*

This practical text enables readers to write, edit, and publish materials of a technical nature, including books, articles, reports, and electronic media. Written by experienced practicing engineers, this guide complements traditional technical writing manuals through presentation of first-hand examples that help readers understand practical considerations in writing and producing technical content. The new edition includes new and updated exercises, examples, and case studies and includes new content on software/systems documentation, popular writing tools, and technologies such as generative AI. It is aimed at students and professionals in the science and engineering domains.

CRC Press

November 2025 : 271pp

Pb: 978-1-032-84374-2 : **£47.99**

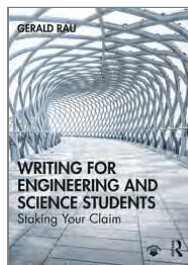
Hb: 978-1-032-84375-9 : **£160**

eBook: 978-1-003-51243-1

\* For full contents and more information, visit: [www.routledge.com/9781032843742](http://www.routledge.com/9781032843742)

## 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 : **£40.99**

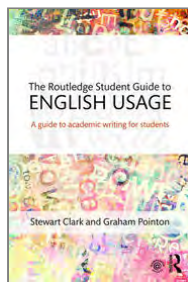
Hb: 978-1-138-38824-6 : **£155**

eBook: 978-0-429-42568-4

\* For full contents and more information, visit: [www.routledge.com/9781138388253](http://www.routledge.com/9781138388253)

## 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 : **£41.99**

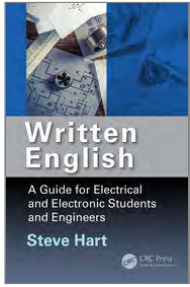
Hb: 978-1-138-93358-3 : **£155**

eBook: 978-1-315-67843-6

\* For full contents and more information, visit: [www.routledge.com/9781138933590](http://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 : £41.99

Hb: 978-1-138-42241-4 : £200

eBook: 978-1-315-21412-2

\* For full contents and more information, visit: [www.routledge.com/9781498739627](http://www.routledge.com/9781498739627)

## 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.

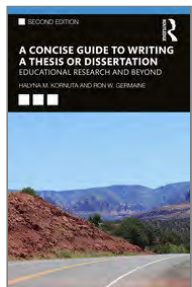
Routledge  
August 2023 : 136pp  
Pb: 978-1-032-34699-1 : **£28.99**  
Hb: 978-1-032-34700-4 : **£145**  
eBook: 978-1-003-32340-2

\* For full contents and more information, visit: [www.routledge.com/9781032346991](http://www.routledge.com/9781032346991)

2ND EDITION

## A Concise Guide to Writing a Thesis or Dissertation

Educational Research and Beyond



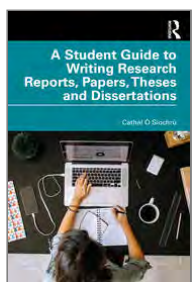
**Halyna M. Kornuta**, **Ron W. Germaine**

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 : **£19.99**  
Hb: 978-0-367-17457-6 : **£140**  
eBook: 978-0-429-05688-8

\* For full contents and more information, visit: [www.routledge.com/9780367174583](http://www.routledge.com/9780367174583)

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



**Cathal Ó Siochrú**

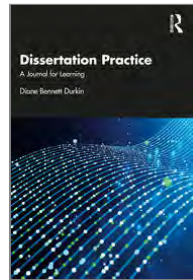
This useful guide for students combines all the guidance, advice, and key tips needed to write successful research reports, theses, or dissertations, exploring, in detail, each of the elements involved in writing an academic paper. The book will guide you through all the key sections of a report including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

Routledge  
November 2022 : 234pp  
Pb: 978-0-367-62104-9 : **£23.99**  
Hb: 978-0-367-62103-2 : **£140**  
eBook: 978-1-003-10796-5

\* For full contents and more information, visit: [www.routledge.com/9780367621049](http://www.routledge.com/9780367621049)

## Dissertation Practice

A Journal for Learning



**Diane Bennett Durkin**

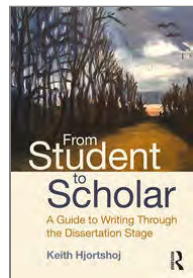
Dissertation Practice: A Journal for Learning is an interactive resource that promotes journaling to engender key dissertation practices, through activities and exercises. It is rooted in the view that students can use journaling to promote thought, and that the privacy of journal entries ensures comfort 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 : **£26.99**  
Hb: 978-1-032-85804-3 : **£145**  
eBook: 978-1-003-51990-4

\* For full contents and more information, visit: [www.routledge.com/9781032858005](http://www.routledge.com/9781032858005)

## From Student to Scholar

A Guide to Writing Through the Dissertation Stage



**Keith Hjortshoj** John S. Knight Writing Program, Cornell University

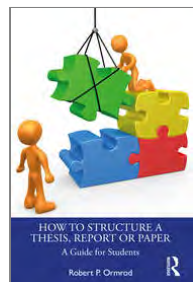
From Student to Scholar guides graduate students through the "hidden" developmental transition required in writing a dissertation and moving beyond, to become a successful scholar. Identifying common rhetorical challenges across disciplines, author Hjortshoj explains how to accommodate evolving audiences, 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 : **£51.99**  
Hb: 978-1-138-56942-3 : **£155**  
eBook: 978-0-203-70426-4

\* For full contents and more information, visit: [www.routledge.com/9781138569447](http://www.routledge.com/9781138569447)

## How to Structure a Thesis, Report or Paper

A Guide for Students



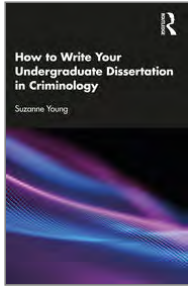
**Robert P. Ormrod**

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 : **£19.99**  
Hb: 978-1-032-36948-8 : **£140**  
eBook: 978-1-003-33463-7

\* For full contents and more information, visit: [www.routledge.com/9781032369464](http://www.routledge.com/9781032369464)

## 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 : **£25.99**  
Hb: 978-0-367-85998-5 : **£155**  
eBook: 978-1-003-01633-5

\* For full contents and more information, visit: [www.routledge.com/9780367859992](http://www.routledge.com/9780367859992)

## Principles and Concepts of Social Research

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



**Simon Hayhoe**

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

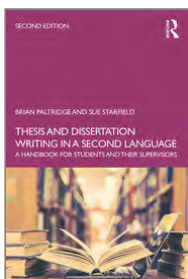
Routledge  
December 2022 : 200pp  
Pb: 978-1-032-14967-7 : **£37.99**  
Hb: 978-1-032-14966-0 : **£140**  
eBook: 978-1-003-24199-7

\* For full contents and more information, visit: [www.routledge.com/9781032149677](http://www.routledge.com/9781032149677)

2ND EDITION

## Thesis and Dissertation Writing in a Second Language

A Handbook for Students and their Supervisors



**Brian Paltridge , Sue Starfield**

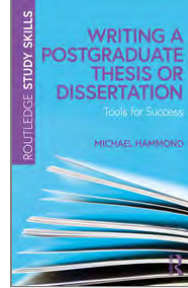
This fully updated edition is the guide for non-native speakers writing a thesis or dissertation in English. It explicitly unpacks academic writing, using accessible language and practical examples and discusses the issues that are crucial to success. These include: understanding the setting and purpose, 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 : **£31.99**  
Hb: 978-1-138-04869-0 : **£140**  
eBook: 978-1-315-17002-2

\* For full contents and more information, visit: [www.routledge.com/9781138048706](http://www.routledge.com/9781138048706)

## Writing a Postgraduate Thesis or Dissertation

Tools for Success



**Michael Hammond**

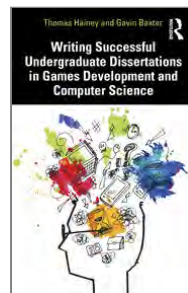
Series: *Routledge Study Skills*

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 : **£20.99**  
Hb: 978-0-367-75281-1 : **£155**  
eBook: 978-1-003-16182-0

\* For full contents and more information, visit: [www.routledge.com/9780367752828](http://www.routledge.com/9780367752828)

## 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.

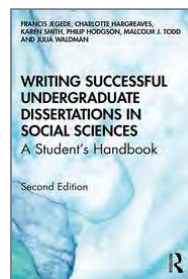
Routledge  
November 2022 : 304pp  
Pb: 978-0-367-51708-3 : **£23.99**  
Hb: 978-0-367-51707-6 : **£140**  
eBook: 978-1-003-05488-7

\* For full contents and more information, visit: [www.routledge.com/9780367517083](http://www.routledge.com/9780367517083)

2ND EDITION

## Writing Successful Undergraduate Dissertations in Social Sciences

A Student's Handbook



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

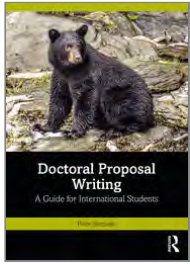
A practical guide for students undertaking their dissertation, this book uses real examples of dissertations across the Social Sciences. Providing an accessible overview of the essential steps in conducting research and writing dissertations, each chapter has clear learning outcomes and research objectives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

Routledge  
February 2020 : 240pp  
Pb: 978-0-367-25525-1 : **£25.99**  
Hb: 978-0-367-25523-7 : **£155**  
eBook: 978-0-429-28825-8

\* For full contents and more information, visit: [www.routledge.com/9780367255251](http://www.routledge.com/9780367255251)

## Doctoral Proposal Writing

A Guide for International Students



**Peter Samuels** Uni of Wolverhampton Busnss Schl

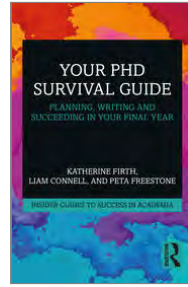
This book is an essential guide for current and prospective international doctoral students wishing to apply and study for a PhD in the UK, and other countries where courses are conducted in English. The book supports students in choosing a suitable research topic and writing an effective proposal for 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 : **£28.99**  
Hb: 978-1-032-56192-9 : **£155**  
eBook: 978-1-003-43434-4

\* For full contents and more information, visit: [www.routledge.com/9781032561936](http://www.routledge.com/9781032561936)

## 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*

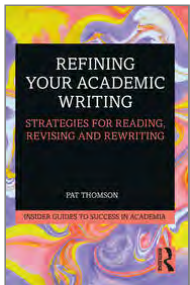
Accessible, insightful and a must-have toolkit for all doctoral students, the founders of the 'Thesis Boot Camp' intensive writing programme show how to survive and thrive through the challenging final year of writing and submitting a thesis. Drawing on an understanding of the intellectual, professional, 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 : **£23.99**  
Hb: 978-0-367-36183-9 : **£155**  
eBook: 978-0-429-34439-8

\* For full contents and more information, visit: [www.routledge.com/9780367361846](http://www.routledge.com/9780367361846)

## Refining Your Academic Writing

Strategies for Reading, Revising and Rewriting



**Pat Thomson**

Series: *Insider Guides to Success in Academia*

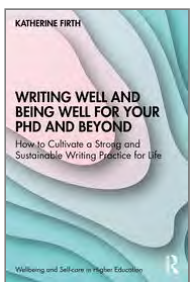
This book will help you complete your writing project and provides a reading, revising, and rewriting repertoire that you can adapt and add to. It offers ways to think about revision and a basic tool kit which will help you to identify what needs your attention and why. This accessible book draws on 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 : **£20.99**  
Hb: 978-0-367-46875-0 : **£140**  
eBook: 978-1-003-03168-0

\* For full contents and more information, visit: [www.routledge.com/9780367468767](http://www.routledge.com/9780367468767)

## 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

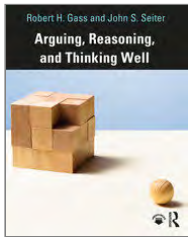
Series: *Wellbeing and Self-care in Higher Education*

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 : **£23.99**  
Hb: 978-1-032-31082-4 : **£145**  
eBook: 978-1-003-30794-5

\* For full contents and more information, visit: [www.routledge.com/9781032310817](http://www.routledge.com/9781032310817)

## 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.

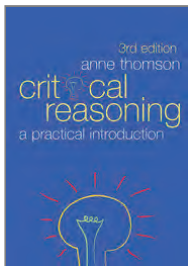
Routledge  
June 2019 : 280pp  
Pb: 978-0-815-37433-6 : **£86.99**  
Hb: 978-0-815-37432-9 : **£175**  
eBook: 978-1-351-24249-3

\* For full contents and more information, visit: [www.routledge.com/9780815374336](http://www.routledge.com/9780815374336)

3RD EDITION

## Critical Reasoning

A Practical Introduction



**Anne Thomson**

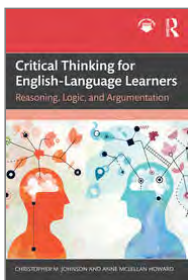
We all engage in the process of reasoning, but we don't always pay attention to whether we are doing it well. This book offers the opportunity to practise reasoning in a clear-headed and critical way, with the aims of developing an awareness of the importance of reasoning well and of improving the reader's 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 : **£40.99**  
Hb: 978-0-415-44586-3 : **£155**  
eBook: 978-0-203-87099-0

\* For full contents and more information, visit: [www.routledge.com/9780415445870](http://www.routledge.com/9780415445870)

## 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.

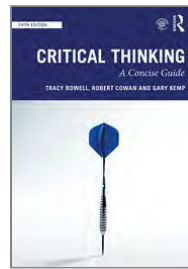
Routledge  
February 2025 : 248pp  
Pb: 978-1-032-75247-1 : **£41.99**  
Hb: 978-1-032-75248-8 : **£155**  
eBook: 978-1-003-47307-7

\* For full contents and more information, visit: [www.routledge.com/9781032752471](http://www.routledge.com/9781032752471)

5TH EDITION

## Critical Thinking

A Concise Guide



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

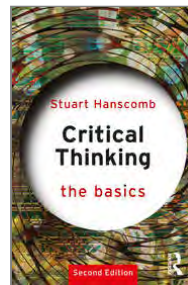
We are frequently confronted with arguments. Critical Thinking equips students with the concepts and techniques used in the analysis and assessment of arguments whatever the context. Through precise and accessible discussion, this book provides the tools to become a successful critical thinker, who can 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 : **£39.99**  
Hb: 978-0-815-37142-7 : **£155**  
eBook: 978-1-351-24373-5

\* For full contents and more information, visit: [www.routledge.com/9780815371434](http://www.routledge.com/9780815371434)

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 improve their thinking skills.

Routledge  
June 2023 : 286pp  
Pb: 978-1-032-16299-7 : **£20.99**  
Hb: 978-1-032-16301-7 : **£145**  
eBook: 978-1-003-24794-4

\* For full contents and more information, visit: [www.routledge.com/9781032162997](http://www.routledge.com/9781032162997)

2ND EDITION

## Recipes for Science

An Introduction to Scientific Methods and Reasoning



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

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

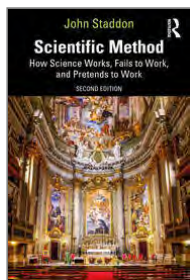
Routledge  
April 2024 : 378pp  
Pb: 978-1-032-29096-6 : **£45.99**  
Hb: 978-1-032-29097-3 : **£185**  
eBook: 978-1-003-30000-7

\* For full contents and more information, visit: [www.routledge.com/9781032290966](http://www.routledge.com/9781032290966)

2ND EDITION

## Scientific Method

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



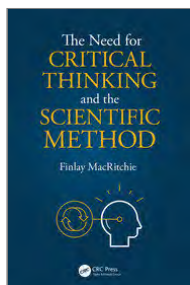
**John Staddon** Duke University, USA

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 : **£33.99**  
Hb: 978-1-032-68389-8 : **£155**  
eBook: 978-1-032-68387-4

\* For full contents and more information, visit: [www.routledge.com/9781032657714](http://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.

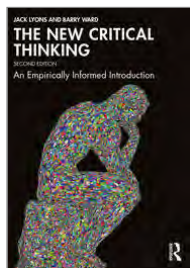
CRC Press  
May 2018 : 152pp  
Pb: 978-0-815-36775-8 : **£48.99**  
Hb: 978-0-815-36815-1 : **£160**  
eBook: 978-1-351-25587-5

\* For full contents and more information, visit: [www.routledge.com/9780815367758](http://www.routledge.com/9780815367758)

2ND EDITION

## The New Critical Thinking

An Empirically Informed Introduction



**Jack Lyons, Barry Ward**

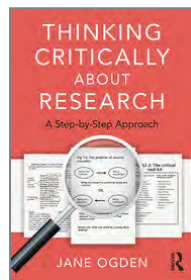
This highly innovative text aims to improve real-world critical thinking, incorporating insights from epistemology and philosophy of science to formulate best practices for assessing information sources and circumnavigate our natural intellectual blind spots. The book covers introductory logic in a way 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 : **£73.99**  
Hb: 978-1-032-31730-4 : **£155**  
eBook: 978-1-003-31102-7

\* For full contents and more information, visit: [www.routledge.com/9781032317281](http://www.routledge.com/9781032317281)

## 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.

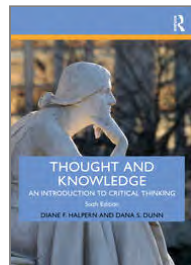
Routledge  
December 2018 : 176pp  
Pb: 978-0-367-00020-2 : **£40.99**  
Hb: 978-0-367-00019-6 : **£155**  
eBook: 978-0-429-44496-8

\* For full contents and more information, visit: [www.routledge.com/9780367000202](http://www.routledge.com/9780367000202)

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.

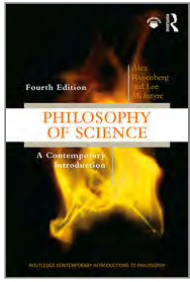
Routledge  
October 2022 : 428pp  
Pb: 978-1-138-65517-1 : **£69.99**  
Hb: 978-1-138-65516-4 : **£220**  
eBook: 978-1-032-32316-9 : **£61.99**

\* For full contents and more information, visit: [www.routledge.com/9781138655171](http://www.routledge.com/9781138655171)

4TH EDITION

**Philosophy of Science**

A Contemporary Introduction

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

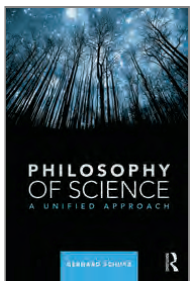
Any serious student attempting to better understand the nature, methods, and justification of science will value this book. Weaving lucid explanations with clear analyses, the volume is as a much-used, thematically-oriented introduction to the field. The new edition has been thoroughly rewritten based 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 : **£49.99**  
Hb: 978-1-138-33148-8 : **£155**  
eBook: 978-0-429-44726-6

\* For full contents and more information, visit: [www.routledge.com/9781138331518](http://www.routledge.com/9781138331518)

**Philosophy of Science**

A Unified Approach

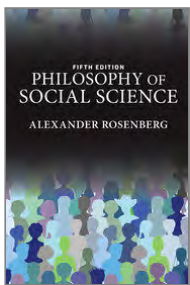
**Gerhard Schurz** Dusseldorf University, Germany,  
**Gerhard Schurz**

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

Routledge  
November 2013 : 480pp  
Pb: 978-0-415-82936-6 : **£52.99**  
Hb: 978-0-415-82934-2 : **£155**  
eBook: 978-0-203-36627-1

\* For full contents and more information, visit: [www.routledge.com/9780415829366](http://www.routledge.com/9780415829366)

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.

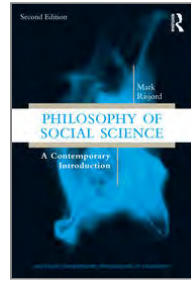
Routledge  
July 2015 : 360pp  
Pb: 978-0-813-34973-2 : **£49.99**  
Hb: 978-0-367-09807-0 : **£155**  
eBook: 978-0-429-49484-0

\* For full contents and more information, visit: [www.routledge.com/9780813349732](http://www.routledge.com/9780813349732)

2ND EDITION

**Philosophy of Social Science**

A Contemporary Introduction

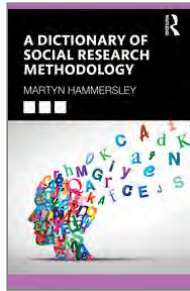
**Mark Risjord** Emory University, USA*Series: Routledge Contemporary Introductions to Philosophy*

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 : **£45.99**  
Hb: 978-1-032-07587-7 : **£200**  
eBook: 978-1-003-20779-5

\* For full contents and more information, visit: [www.routledge.com/9781032075860](http://www.routledge.com/9781032075860)

## 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 : **£39.99**  
Hb: 978-1-032-82215-0 : **£155**  
eBook: 978-1-003-50350-7

\* For full contents and more information, visit: [www.routledge.com/9781032822136](http://www.routledge.com/9781032822136)

## 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  
Pb: 978-1-032-39232-5 : **£16.99**  
Hb: 978-1-032-39230-1 : **£145**  
eBook: 978-1-003-34892-4

\* For full contents and more information, visit: [www.routledge.com/9781032392325](http://www.routledge.com/9781032392325)

## A-Z of Digital Research Methods



**Catherine Dawson**

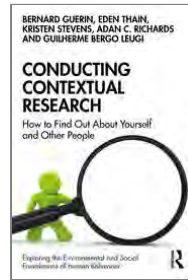
This book provides a quick and easy, alphabetical reference guide for any student or researcher looking for an introduction to digital research methods. It provides a pathway through the often confusing digital research landscape, giving a concise introduction to each method.

Routledge  
July 2019 : 424pp  
Pb: 978-1-138-48680-5 : **£29.99**  
Hb: 978-1-138-48679-9 : **£140**  
eBook: 978-1-351-04467-7

\* For full contents and more information, visit: [www.routledge.com/9781138486805](http://www.routledge.com/9781138486805)

## 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 Bergo Leugi**

*Series: Exploring the Environmental and Social Foundations of Human Behaviour*

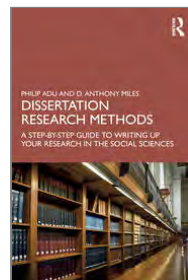
This innovative book proposes an entirely new approach to social research, presenting practical ways to discover people's life contexts in order to understand why they do what they do, which is essential for any forms of research that need to understand people. Conducting Contextual Research is essential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

Routledge  
June 2024 : 190pp  
Pb: 978-1-032-60818-1 : **£46.99**  
Hb: 978-1-032-60825-9 : **£145**  
eBook: 978-1-003-46063-3

\* For full contents and more information, visit: [www.routledge.com/9781032608181](http://www.routledge.com/9781032608181)

## 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 : **£45.99**  
Hb: 978-1-032-21383-5 : **£155**  
eBook: 978-1-003-26815-4

\* For full contents and more information, visit: [www.routledge.com/9781032213859](http://www.routledge.com/9781032213859)

## 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 : **£19.99**  
Hb: 978-0-367-20791-5 : **£140**  
eBook: 978-0-429-26355-2

\* For full contents and more information, visit: [www.routledge.com/9780367207939](http://www.routledge.com/9780367207939)

## Literature Review and Research Design

A Guide to Effective Research Practice



**Dave Harris**

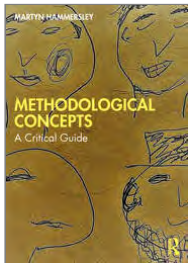
Graduate students executing their first independent research project often struggle to use academic literature effectively in the process of designing, developing, executing, and presenting their work. This book gives an overview of how to develop an effective research practice supported by the academic 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 : **£29.99**  
Hb: 978-0-367-25036-2 : **£140**  
eBook: 978-0-429-28566-0

\* For full contents and more information, visit: [www.routledge.com/9780367250379](http://www.routledge.com/9780367250379)

## Methodological Concepts

A Critical Guide



**Martyn Hammersley** The Open University, UK

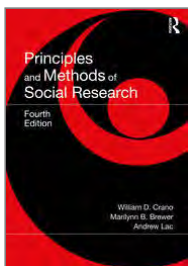
Methodological Concepts: A Critical Guide clarifies many key terms and issues in social research methodology. It outlines the conventional meanings of these terms, but also addresses their contentious character. The aim is to offer interpretations of them that provide a coherent conception of the nature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

Routledge  
February 2023 : 186pp  
Pb: 978-1-032-39574-6 : **£36.99**  
Hb: 978-1-032-39573-9 : **£140**  
eBook: 978-1-003-35035-4

\* For full contents and more information, visit: [www.routledge.com/9781032395746](http://www.routledge.com/9781032395746)

4TH EDITION

## Principles and Methods of Social Research



**William D. Crano** Claremont Graduate University, USA, **Marilyn 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 : **£94.99**  
Hb: 978-1-032-22241-7 : **£155**  
eBook: 978-1-003-27173-4

\* For full contents and more information, visit: [www.routledge.com/9781032222400](http://www.routledge.com/9781032222400)

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  
July 2025 : 806pp  
Hb: 978-1-032-72058-6 : **£130**  
IEPB: 978-1-032-72059-3 : **£45.99**  
eBook: 978-1-032-72060-9

\* For full contents and more information, visit: [www.routledge.com/9781032720586](http://www.routledge.com/9781032720586)

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 : **£45.99**  
Hb: 978-1-462-55088-3 : **£69.99**

\* For full contents and more information, visit: [www.routledge.com/9781462548972](http://www.routledge.com/9781462548972)

2ND EDITION

## Research Methods

The Key Concepts



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

Series: *Routledge Key Guides*

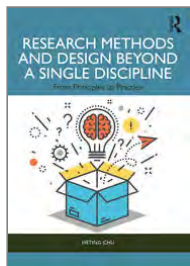
This invaluable resource provides a comprehensive overview of the many methods and methodologies of social research. Each entry provides a critical definition and examines the value and difficulties of a particular method or methodology of concept across different fields of social research. With thematic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

Routledge  
September 2020 : 232pp  
Pb: 978-0-367-17874-1 : **£23.99**  
Hb: 978-0-367-17873-4 : **£115**  
eBook: 978-0-429-05816-5

\* For full contents and more information, visit: [www.routledge.com/9780367178741](http://www.routledge.com/9780367178741)

## 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.

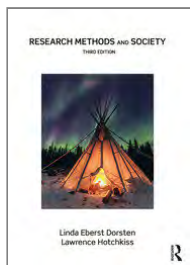
Routledge  
April 2024 : 360pp  
Pb: 978-0-367-89885-4 : **£61.99**  
Hb: 978-0-367-89883-0 : **£155**  
eBook: 978-1-003-02171-1

\* For full contents and more information, visit: [www.routledge.com/9780367898854](http://www.routledge.com/9780367898854)

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.

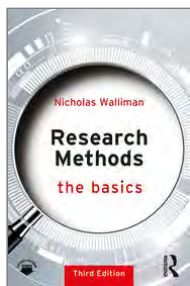
Routledge  
December 2018 : 410pp  
Pb: 978-0-815-36615-7 : **£96.99**  
Hb: 978-0-815-36616-4 : **£245**  
eBook: 978-1-351-25981-1

\* For full contents and more information, visit: [www.routledge.com/9780815366157](http://www.routledge.com/9780815366157)

3RD EDITION

## Research Methods

The Basics



**Nicholas Walliman** Oxford Brookes University, UK

Series: *The Basics*

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

Routledge  
December 2021 : 280pp  
Pb: 978-0-367-69408-1 : **£20.99**  
Hb: 978-0-367-69407-4 : **£150**  
eBook: 978-1-003-14169-3

\* For full contents and more information, visit: [www.routledge.com/9780367694081](http://www.routledge.com/9780367694081)

2ND EDITION

## Social Research Methods by Example

Applications in the Modern World



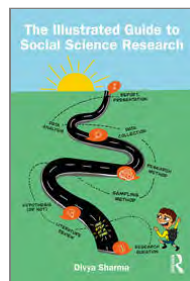
**Yasemin Besen-Cassino , Dan Cassino** Fairleigh Dickson University

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 : **£40.99**  
Hb: 978-1-032-21005-6 : **£145**  
eBook: 978-1-003-26632-7

\* For full contents and more information, visit: [www.routledge.com/9781032209203](http://www.routledge.com/9781032209203)

## 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 : **£39.99**  
Hb: 978-1-032-32379-4 : **£155**  
eBook: 978-1-003-31473-8

\* For full contents and more information, visit: [www.routledge.com/9781032323770](http://www.routledge.com/9781032323770)

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 : **£52.99**  
Hb: 978-1-138-91760-6 : **£155**  
eBook: 978-1-315-68890-9

\* For full contents and more information, visit: [www.routledge.com/9781138917613](http://www.routledge.com/9781138917613)

2ND EDITION

## 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 : **£28.99**  
Hb: 978-1-032-01809-6 : **£145**  
eBook: 978-1-003-18015-9

\* For full contents and more information, visit: [www.routledge.com/9781032018102](http://www.routledge.com/9781032018102)

11TH EDITION

## Understanding Research Methods

An Overview of the Essentials



**Michelle Newhart**, **Mildred L. Patten**

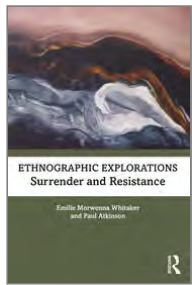
A perennial bestseller since 1997, this updated eleventh edition of *Understanding Research Methods* provides a detailed overview of all the important concepts traditionally covered in a research methods class. It covers the principles of both qualitative and quantitative research, and how to interpret 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 : **£96.99**  
Hb: 978-0-367-55117-9 : **£255**  
eBook: 978-1-003-09204-9

\* For full contents and more information, visit: [www.routledge.com/9780367551186](http://www.routledge.com/9780367551186)

## 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 : **£38.99**  
Hb: 978-0-367-17440-8 : **£140**  
eBook: 978-0-429-05680-2

\* For full contents and more information, visit: [www.routledge.com/9780367174415](http://www.routledge.com/9780367174415)

## 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.

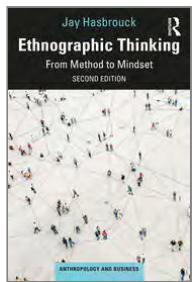
Routledge India  
June 2023 : 282pp  
Pb: 978-1-032-49233-9 : **£40.99**  
Hb: 978-1-032-48008-4 : **£155**  
eBook: 978-1-003-39277-4

\* For full contents and more information, visit: [www.routledge.com/9781032492339](http://www.routledge.com/9781032492339)

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.

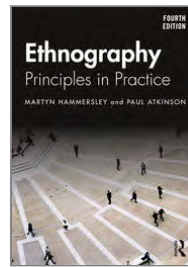
Routledge  
April 2024 : 156pp  
Pb: 978-1-032-46309-4 : **£40.99**  
Hb: 978-1-032-46308-7 : **£155**  
eBook: 978-1-003-38107-5

\* For full contents and more information, visit: [www.routledge.com/9781032463094](http://www.routledge.com/9781032463094)

4TH EDITION

## Ethnography

Principles in Practice



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

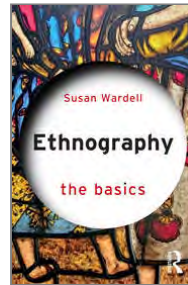
This edition has been expertly updated to reflect the important developments in digital and mobile technologies and social media. The ease with which recordings, audio or video, as well as photographs, can be produced via the use of mobile devices has opened up new tools and foci for ethnographers.

Routledge  
April 2019 : 292pp  
Pb: 978-1-138-50446-2 : **£45.99**  
Hb: 978-1-138-50445-5 : **£170**  
eBook: 978-1-315-14602-7

\* For full contents and more information, visit: [www.routledge.com/9781138504462](http://www.routledge.com/9781138504462)

## Ethnography

The Basics



**Susan Wardell**

*Series: The Basics*

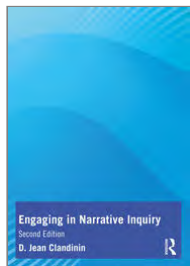
*Ethnography: The Basics* introduces a broad and beginner audience to ethnography, as a research methodology with diverse applications. By using everyday language, and developing a warm and inclusive tone, the book provides an accessible entry point to the topic.

Routledge  
May 2025 : 278pp  
Pb: 978-1-032-52012-4 : **£19.99**  
Hb: 978-1-032-51311-9 : **£155**  
eBook: 978-1-003-40488-0

\* For full contents and more information, visit: [www.routledge.com/9781032520124](http://www.routledge.com/9781032520124)

2ND EDITION

## Engaging in Narrative Inquiry



**D. Jean Clandinin**

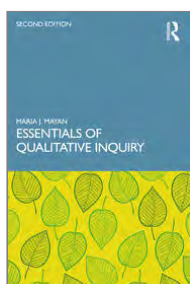
In *Engaging in Narrative Inquiry, Second Edition*, D. Jean Clandinin, a pioneer in narrative research, updates her classic formulation on narrative inquiry, clarifying, extending, and refining methods. The increasing interest in narrative inquiry as research methodology across disciplines makes this 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 : **£45.99**  
Hb: 978-1-032-14609-6 : **£155**  
eBook: 978-1-003-24014-3

\* For full contents and more information, visit: [www.routledge.com/9781032146102](http://www.routledge.com/9781032146102)

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 : **£31.99**  
Hb: 978-1-629-58326-6 : **£135**  
eBook: 978-1-003-38575-2

\* For full contents and more information, visit: [www.routledge.com/9781629583273](http://www.routledge.com/9781629583273)

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  
October 2025 : 664pp  
Pb: 978-1-032-77458-9 : **£45.99**  
Hb: 978-1-032-77460-2 : **£155**  
eBook: 978-1-003-48319-9

\* For full contents and more information, visit: [www.routledge.com/9781032774589](http://www.routledge.com/9781032774589)

## 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 : **£45.99**  
Hb: 978-0-367-33350-8 : **£155**  
eBook: 978-0-429-31933-4

\* For full contents and more information, visit: [www.routledge.com/9780367333478](http://www.routledge.com/9780367333478)

2ND EDITION

## Thinking with Theory in Qualitative Research



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

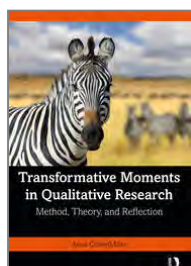
*Thinking with Theory in Qualitative Research, Second Edition* demonstrates how to enact various philosophical concepts in practices of inquiry, effectively opening up the process of thought in qualitative studies. In the ten years since the first edition was published, *Thinking with Theory* has become 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 : **£45.99**  
Hb: 978-1-138-95213-3 : **£155**  
eBook: 978-1-315-66776-8

\* For full contents and more information, visit: [www.routledge.com/9781138952140](http://www.routledge.com/9781138952140)

## Transformative Moments in Qualitative Research

Method, Theory, and Reflection



**Anna Cohen Miller**

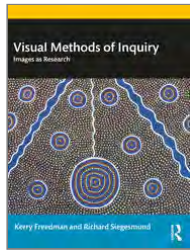
This groundbreaking book, eloquently fuses powerful stories of research with methodological insight and theory. Each chapter offers a clear, practical, and engaging exploration of qualitative inquiry, emphasizing the power of research to foster equity, inclusion, and justice-centered practice (e.g., 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 : **£41.99**  
Hb: 978-1-032-38168-8 : **£145**  
eBook: 978-1-003-34381-3

\* For full contents and more information, visit: [www.routledge.com/9781032381701](http://www.routledge.com/9781032381701)

## 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 : **£37.99**

Hb: 978-0-367-25049-2 : **£145**

eBook: 978-0-429-28572-1

\* For **full contents** and more information, visit: [www.routledge.com/9780367250485](http://www.routledge.com/9780367250485)

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 : **£38.99**  
Hb: 978-1-032-74496-4 : **£145**  
eBook: 978-1-003-46951-3

\* For full contents and more information, visit: [www.routledge.com/9781032123875](http://www.routledge.com/9781032123875)

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 : **£57.99**  
Hb: 978-1-032-46296-7 : **£190**  
eBook: 978-1-003-38100-6

\* For full contents and more information, visit: [www.routledge.com/9781032462950](http://www.routledge.com/9781032462950)

3RD EDITION

## Planning Research in Hospitality and Tourism



**Levent Altınay Oxford Brookes University, UK, Alexandros Paraskevas , Faizan Ali**

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

Routledge  
June 2024 : 372pp  
Pb: 978-1-032-52258-6 : **£51.99**  
Hb: 978-1-032-52257-9 : **£155**  
eBook: 978-1-003-40579-5

\* For full contents and more information, visit: [www.routledge.com/9781032522586](http://www.routledge.com/9781032522586)

## 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.

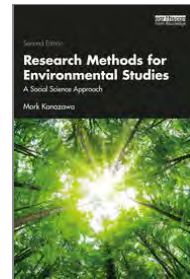
Routledge  
February 2023 : 158pp  
Pb: 978-1-032-32337-4 : **£46.99**  
Hb: 978-1-032-32338-1 : **£140**  
eBook: 978-1-003-31451-6

\* For full contents and more information, visit: [www.routledge.com/9781032323374](http://www.routledge.com/9781032323374)

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 : **£40.99**  
Hb: 978-1-032-19841-5 : **£155**  
eBook: 978-1-003-26111-7

\* For full contents and more information, visit: [www.routledge.com/9781032198408](http://www.routledge.com/9781032198408)

## Researching and Analysing Business

Research Methods in Practice



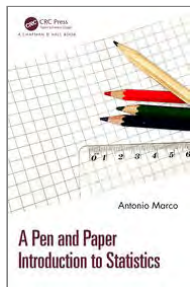
Edited by **Pantea Foroudi , Charles Dennis** Middlesex Business School, UK

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 : **£44.99**  
Hb: 978-0-367-62064-6 : **£160**  
eBook: 978-1-003-10777-4

\* For full contents and more information, visit: [www.routledge.com/9780367620653](http://www.routledge.com/9780367620653)

## A Pen and Paper Introduction to Statistics



**Antonio Marco** University of Essex, U.K.

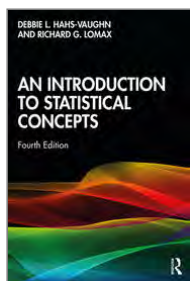
This book proposes to reverse the way statistics is taught, by starting with the introduction of linear models. The reader will have the opportunity to work through the examples and compute sums of squares by just drawing and counting, and finally evaluating whether observed differences are statistically 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 : **£35.99**  
Hb: 978-1-032-50511-4 : **£105**  
eBook: 978-1-003-39882-0

\* For full contents and more information, visit: [www.routledge.com/9781032505107](http://www.routledge.com/9781032505107)

4TH EDITION

## An Introduction to Statistical Concepts



**Debbie L. Hahs-Vaughn** University of Central Florida, USA, **Richard Lomax** The Ohio State University, USA

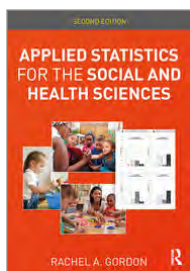
This comprehensive, flexible text is used in both one- and two-semester courses to review introductory through intermediate statistics. Instructors select the topics that are most appropriate for their course. Its conceptual approach helps students more easily understand the concepts and interpret SPSS 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 : **£130**  
eBook: 978-1-315-62435-8

\* For full contents and more information, visit: [www.routledge.com/9781138650558](http://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 : **£46.99**  
Hb: 978-1-032-32343-5 : **£155**  
eBook: 978-1-003-31453-0

\* For full contents and more information, visit: [www.routledge.com/9781032323442](http://www.routledge.com/9781032323442)

9TH EDITION

## Interpreting Basic Statistics

A Workbook Based on Excerpts from Journal Articles



**Zealure C. Holcomb**, **Keith S. Cox** University of North Carolina, USA

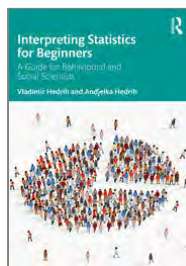
Interpreting Basic Statistics gives students valuable practice in interpreting statistical reporting as it actually appears in peer-reviewed journals. The questions in each exercise are divided into two parts: (1) Factual Questions and (2) Questions for Discussion. The factual questions require careful 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 : **£66.99**  
Hb: 978-0-367-56051-5 : **£200**  
eBook: 978-1-003-09676-4

\* For full contents and more information, visit: [www.routledge.com/9780367561970](http://www.routledge.com/9780367561970)

## 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.

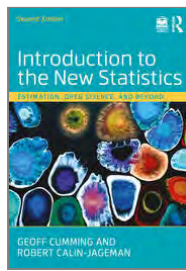
Routledge  
February 2022 : 204pp  
Pb: 978-0-367-61852-0 : **£39.99**  
Hb: 978-0-367-62051-6 : **£155**  
eBook: 978-1-003-10771-2

\* For full contents and more information, visit: [www.routledge.com/9780367618520](http://www.routledge.com/9780367618520)

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.

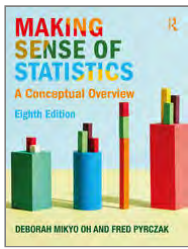
Routledge  
March 2024 : 610pp  
Pb: 978-0-367-53150-8 : **£72.99**  
Hb: 978-0-367-53149-2 : **£225**  
eBook: 978-1-032-68947-0

\* For full contents and more information, visit: [www.routledge.com/9780367531508](http://www.routledge.com/9780367531508)

8TH EDITION

**Making Sense of Statistics**

A Conceptual Overview

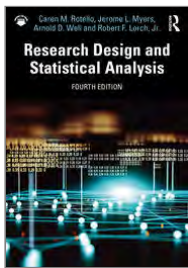
**Deborah M. Oh , Fred Pyrczak**

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 : **£52.99**  
Hb: 978-1-032-28962-5 : **£145**  
eBook: 978-1-003-29935-6

\* For **full contents** and more information, visit: [www.routledge.com/9781032289649](http://www.routledge.com/9781032289649)

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.

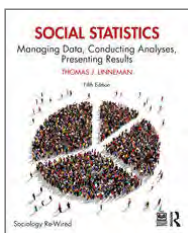
Routledge  
January 2025 : 834pp  
Pb: 978-1-032-89728-8 : **£80.99**  
Hb: 978-1-032-59210-7 : **£155**  
eBook: 978-1-003-45355-0

\* For **full contents** and more information, visit: [www.routledge.com/9781032897288](http://www.routledge.com/9781032897288)

5TH 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.

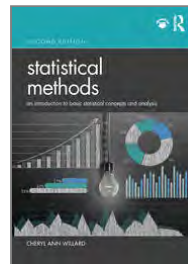
Routledge  
August 2025 : 668pp  
Pb: 978-1-032-49035-9 : **£105**  
Hb: 978-1-032-49037-3 : **£155**  
eBook: 978-1-003-39196-8

\* For **full contents** and more information, visit: [www.routledge.com/9781032490359](http://www.routledge.com/9781032490359)

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 : **£60.99**  
Hb: 978-0-367-20351-1 : **£195**  
eBook: 978-0-429-26103-9

\* For **full contents** and more information, visit: [www.routledge.com/9780367203528](http://www.routledge.com/9780367203528)

4TH EDITION

**Statistics Explained****Perry R. Hinton** Warwick University, UK

Statistics Explained is an accessible introduction to statistical concepts and ideas for undergraduate and postgraduate 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.

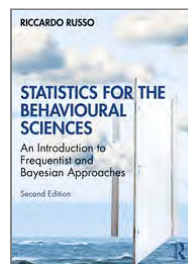
Routledge  
October 2024 : 356pp  
Pb: 978-0-367-36635-3 : **£39.99**  
Hb: 978-0-367-36638-4 : **£145**  
eBook: 978-0-429-35326-0

\* For **full contents** and more information, visit: [www.routledge.com/9780367366353](http://www.routledge.com/9780367366353)

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 : **£39.99**  
Hb: 978-1-138-71148-8 : **£155**  
eBook: 978-1-315-20041-5

\* For **full contents** and more information, visit: [www.routledge.com/9781138711501](http://www.routledge.com/9781138711501)

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 : **£37.99**

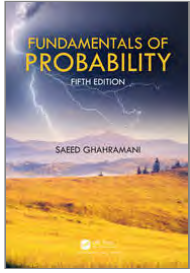
Hb: 978-0-367-34282-1 : **£195**

eBook: 978-1-032-22944-7 : **£33.99**

\* For full contents and more information, visit: [www.routledge.com/9780367342838](http://www.routledge.com/9780367342838)

5TH EDITION

## Fundamentals of Probability



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

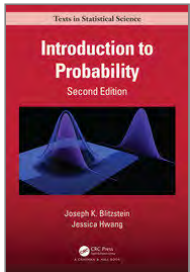
This one- or two-term calculus-based basic probability text is written for majors in mathematics, physical sciences, engineering, statistics, actuarial science, business and finance, operations research, and computer science. It presents probability in a natural way: through interesting and instructive 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 : £130  
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](http://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.

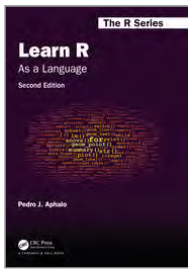
Chapman & Hall  
February 2019 : 634pp  
Hb: 978-1-138-36991-7 : £76.99  
eBook: 978-0-429-42835-7

\* For full contents and more information, visit: [www.routledge.com/9781138369917](http://www.routledge.com/9781138369917)

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 : **£67.99**  
Hb: 978-1-032-51843-5 : **£175**  
eBook: 978-1-003-40418-7

\* For full contents and more information, visit: [www.routledge.com/9781032516998](http://www.routledge.com/9781032516998)

2ND EDITION

## R Data Analysis without Programming

Explanation and Interpretation



**David W. Gerbing** Portland State University, USA

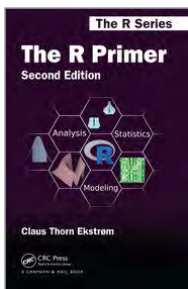
The new edition of this innovative book, prepares the readers to quickly analyse data and interpret statistical results using R. Professor Gerbing has developed lessR, which is a ground-breaking method in alleviating the challenges of R programming. The lessR extends R, removing the need for programming. 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 : **£59.99**  
Hb: 978-1-032-24402-0 : **£140**  
eBook: 978-1-003-27841-2

\* For full contents and more information, visit: [www.routledge.com/9781032244037](http://www.routledge.com/9781032244037)

2ND EDITION

## R Primer



**Claus Thorn Ekstrom** 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.

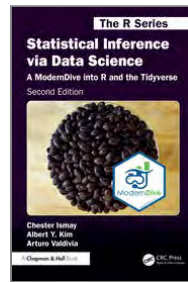
Chapman & Hall  
March 2017 : 426pp  
Pb: 978-1-138-63197-7 : **£59.99**  
Hb: 978-1-498-77255-6 : **£125**  
eBook: 978-1-315-15441-1

\* For full contents and more information, visit: [www.routledge.com/9781138631977](http://www.routledge.com/9781138631977)

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*

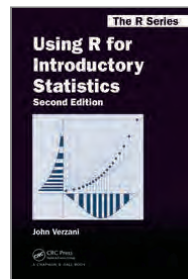
Offers a comprehensive guide to learning statistical inference with data science tools widely used in industry, academia, and government. Ideal for those new to statistics or looking to deepen their knowledge, this edition provides a clear entry point into data science and modern statistical methods.

Chapman & Hall  
May 2025 : 490pp  
Pb: 978-1-032-70837-9 : **£68.99**  
Hb: 978-1-032-72451-5 : **£170**  
eBook: 978-1-032-72454-6

\* For full contents and more information, visit: [www.routledge.com/9781032708379](http://www.routledge.com/9781032708379)

2ND EDITION

## Using R for Introductory Statistics



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

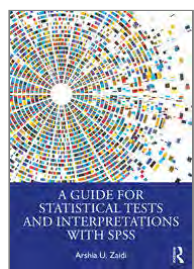
Series: *Chapman & Hall/CRC The R Series*

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 : **£67.99**  
eBook: 978-1-315-37308-9

\* For full contents and more information, visit: [www.routledge.com/9781466590731](http://www.routledge.com/9781466590731)

## 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.

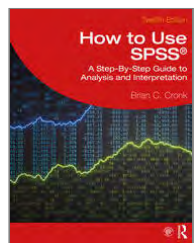
Routledge  
October 2024 : 244pp  
Pb: 978-1-032-10210-8 : **£48.99**  
Hb: 978-1-032-10520-8 : **£140**  
eBook: 978-1-003-21569-1

\* For full contents and more information, visit: [www.routledge.com/9781032102108](http://www.routledge.com/9781032102108)

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.

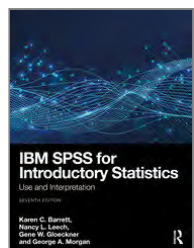
Routledge  
January 2024 : 252pp  
Pb: 978-1-032-58235-1 : **£65.99**  
Hb: 978-1-032-58519-2 : **£155**  
eBook: 978-1-003-45046-7

\* For full contents and more information, visit: [www.routledge.com/9781032582351](http://www.routledge.com/9781032582351)

7TH EDITION

## IBM SPSS for Introductory Statistics

Use and Interpretation



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

IBM SPSS for Introductory Statistics is designed to help students learn how to analyze and interpret research. In easy-to-understand language, the authors show readers how to choose the appropriate statistic based on the design, and to interpret outputs appropriately. This volume is an invaluable supplemental (or lab text) book for students. In addition, this book and its companion, IBM SPSS for Intermediate Statistics, are useful as guides/reminders to faculty and professionals regarding the specific steps to take to use SPSS and/or how to use and interpret parts of SPSS with which they are unfamiliar.

Routledge  
September 2025 : 258pp  
Pb: 978-1-032-41030-2 : **£47.99**  
Hb: 978-1-032-41031-9 : **£155**  
eBook: 978-1-003-35590-8

\* For full contents and more information, visit: [www.routledge.com/9781032410302](http://www.routledge.com/9781032410302)

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 : **£75.99**  
Hb: 978-1-032-62212-5 : **£235**  
eBook: 978-1-032-62215-6

\* For full contents and more information, visit: [www.routledge.com/9781032621937](http://www.routledge.com/9781032621937)

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 : **£52.99**  
Hb: 978-0-367-36698-8 : **£145**  
eBook: 978-0-429-35086-3

\* For full contents and more information, visit: [www.routledge.com/9780367366995](http://www.routledge.com/9780367366995)

## Geocomputation with Python



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

*Series: Chapman & Hall/CRC The Python Series*

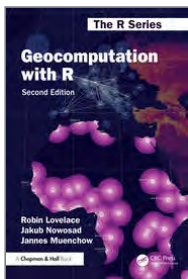
Geocomputation with Python is a comprehensive resource for working with geographic data with the most popular programming language in the world. The book gives an overview of Python's capabilities for spatial data analysis, as well as dozens of worked-through examples covering the entire range of standard 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 : **£58.99**  
Hb: 978-1-032-45891-5 : **£160**  
eBook: 978-1-003-37991-1

\* For full contents and more information, visit: [www.routledge.com/9781032460659](http://www.routledge.com/9781032460659)

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 gdal.cubes. The book equips you with the knowledge and skills to tackle a wide range of issues.

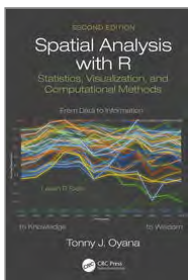
Chapman & Hall  
May 2025 : 420pp  
Pb: 978-1-032-24888-2 : **£58.99**  
Hb: 978-1-032-22979-9 : **£160**  
eBook: 978-1-003-28056-9

\* For full contents and more information, visit: [www.routledge.com/9781032248882](http://www.routledge.com/9781032248882)

2ND EDITION

## Spatial Analysis with R

Statistics, Visualization, and Computational Methods



**Tonny J. Oyana**

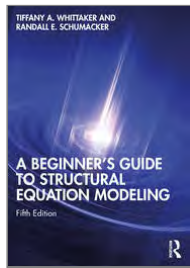
The implementation of new tools and methods for spatial analysis using R, the use and growth of artificial intelligence, machine learning and deep learning algorithms with a spatial perspective, and the interdisciplinary use of spatial analysis are all new topics in this second edition. The book provides 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 : **£48.99**  
Hb: 978-0-367-86085-1 : **£125**  
eBook: 978-1-003-02164-3

\* For full contents and more information, visit: [www.routledge.com/9780367532383](http://www.routledge.com/9780367532383)

5TH EDITION

## A Beginner's Guide to Structural Equation Modeling



**Randall E. Schumacker, Tiffany A. Whittaker**

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.

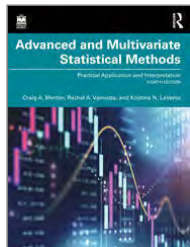
Routledge  
May 2022 : 418pp  
Pb: 978-0-367-47796-7 : **£76.99**  
Hb: 978-0-367-49015-7 : **£155**  
eBook: 978-1-003-04401-7

\* For full contents and more information, visit: [www.routledge.com/9780367477967](http://www.routledge.com/9780367477967)

8TH EDITION

## Advanced and Multivariate Statistical Methods

Practical Application and Interpretation



**Craig A. Mertler** Arizona State University, USA, **Rachel A. Vannatta, Kristina N. LaVenia** Bowling Green State University

Advanced and Multivariate Statistical Methods, Eighth Edition offers conceptual and practical insights into multivariate statistical techniques, designed for students without requiring deep technical or mathematical expertise. This updated text facilitates conceptual understanding of multivariate statistical methods by limiting the technical nature of the discussion of those concepts and focusing on their practical applications. This book is tailored for students taking a multivariate statistics course in graduate programs across a range of fields, including psychology, education, sociology, criminal justice, social work, mass communication, and nursing.

Routledge  
September 2025 : 352pp  
Pb: 978-1-032-89050-0 : **£145**  
Hb: 978-1-032-91296-7 : **£155**  
eBook: 978-1-003-56243-6

\* For full contents and more information, visit: [www.routledge.com/9781032890500](http://www.routledge.com/9781032890500)

## Data Analytics for the Social Sciences

Applications in R



**G. David Garson**

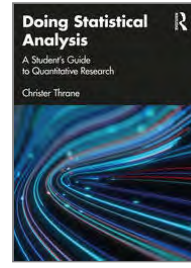
This book presents a complete exploration of statistical data analysis in R for a wide variety of social science disciplines and quantitative methods courses. Covering all the bases including multilevel modeling and ANOVA / ANCOVA, the book also goes further by looking at topics such as: neural networks 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 : **£94.99**  
Hb: 978-0-367-62429-3 : **£265**  
eBook: 978-1-003-10939-6

\* For full contents and more information, visit: [www.routledge.com/9780367624279](http://www.routledge.com/9780367624279)

## 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.

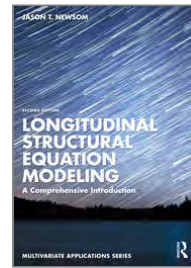
Routledge  
July 2022 : 266pp  
Pb: 978-1-032-17132-6 : **£55.99**  
Hb: 978-1-032-18030-4 : **£155**  
eBook: 978-1-003-25255-9

\* For full contents and more information, visit: [www.routledge.com/9781032171326](http://www.routledge.com/9781032171326)

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 : **£78.99**  
Hb: 978-1-032-20283-9 : **£155**  
eBook: 978-1-003-26303-6

\* For full contents and more information, visit: [www.routledge.com/9781032202860](http://www.routledge.com/9781032202860)

3RD EDITION

## Multilevel and Longitudinal Modeling with IBM SPSS



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

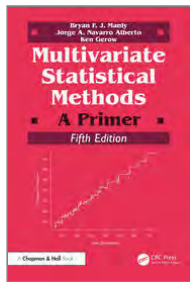
Routledge  
April 2022 : 494pp  
Pb: 978-0-367-42461-9 : **£52.99**  
Hb: 978-0-367-42460-2 : **£185**  
eBook: 978-0-367-82427-3

\* For full contents and more information, visit: [www.routledge.com/9780367424619](http://www.routledge.com/9780367424619)

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.

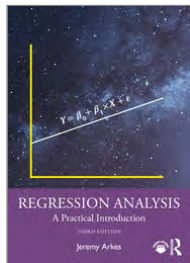
Chapman & Hall  
October 2024 : 294pp  
Pb: 978-1-032-59197-1 : **£55.99**  
Hb: 978-1-032-59200-8 : **£160**  
eBook: 978-1-003-45348-2

\* For full contents and more information, visit: [www.routledge.com/9781032591971](http://www.routledge.com/9781032591971)

3RD EDITION

## Regression Analysis

A Practical Introduction



**Jeremy Arkes**

This thoroughly practical and engaging textbook conveys the skills needed to responsibly develop, conduct, scrutinize, and interpret statistical analyses without requiring high-level math. This third edition features coverage of the Generalized AutoRegressive Conditional Heteroskedasticity (GARCh) model, Time Series Cross Section models and Multi-level (Hierarchical) models, and has been updated throughout to include more examples. It is ideal for undergraduate and postgraduate students 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.

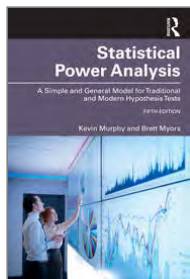
Routledge  
September 2025 : 524pp  
Pb: 978-1-041-00259-8 : **£41.99**  
Hb: 978-1-041-00260-4 : **£130**  
eBook: 978-1-003-60894-3

\* For full contents and more information, visit: [www.routledge.com/9781041002598](http://www.routledge.com/9781041002598)

5TH EDITION

## Statistical Power Analysis

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



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

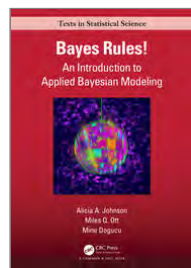
Statistical Power Analysis explains the key concepts in statistical power analysis and illustrates their application in both tests of traditional null hypotheses. It provides readers with the tools to understand and perform power analyses for virtually all the statistical methods used in the social and 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 : **£57.99**  
Hb: 978-1-032-28301-2 : **£140**  
eBook: 978-1-003-29622-5

\* For full contents and more information, visit: [www.routledge.com/9781032283005](http://www.routledge.com/9781032283005)

## 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*

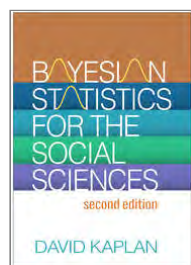
An engaging, sophisticated, and fun introduction to the field of Bayesian Statistics, *Bayes Rules! An Introduction to Bayesian Modeling with R* brings the power of modern Bayesian thinking, modeling, and computing to a broad audience. In particular, it is an ideal resource for advanced undergraduate 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 : **£69.99**  
Hb: 978-1-032-19159-1 : **£195**  
eBook: 978-0-429-28834-0

\* For full contents and more information, visit: [www.routledge.com/9780367255398](http://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.

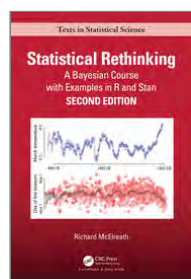
Guilford Press  
December 2023 : 250pp  
Hb: 978-1-462-55354-9 : **£62.99**

\* For full contents and more information, visit: [www.routledge.com/9781462553549](http://www.routledge.com/9781462553549)

2ND EDITION

## Statistical Rethinking

A Bayesian Course with Examples in R and STAN



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

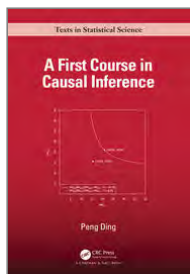
*Series: Chapman & Hall/CRC Texts in Statistical Science*

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 : **£86.99**  
eBook: 978-0-429-02960-8

\* For full contents and more information, visit: [www.routledge.com/9780367139919](http://www.routledge.com/9780367139919)

## 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 : **£68.99**  
eBook: 978-1-003-48408-0

\* For full contents and more information, visit: [www.routledge.com/9781032758626](http://www.routledge.com/9781032758626)

2ND EDITION

## The Effect

An Introduction to Research Design and Causality



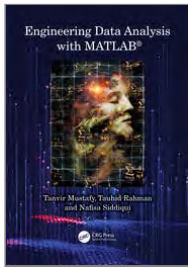
**Nick Huntington-Klein**

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  
July 2025: 686pp  
Pb: 978-1-032-58022-7 : **£41.99**  
Hb: 978-1-032-58194-1 : **£130**  
eBook: 978-1-003-44896-9

\* For full contents and more information, visit: [www.routledge.com/9781032580227](http://www.routledge.com/9781032580227)

## 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

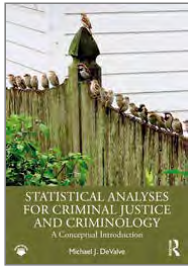
This book provides a concise overview of a variety of techniques for analyzing statistical, scientific, and financial data, using MATLAB® to integrate several approaches to data analysis and statistics. Chapters offer a broad review of computational data analysis, illustrated with many examples and applications. 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 : **£75.99**  
 Hb: 978-1-032-50658-6 : **£155**  
 eBook: 978-1-003-39958-2

\* For full contents and more information, visit: [www.routledge.com/9781032507712](http://www.routledge.com/9781032507712)

## Statistical Analyses for Criminal Justice and Criminology

A Conceptual Introduction



**Michael J. DeValve**

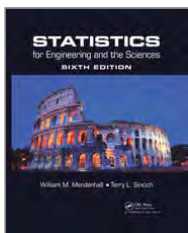
This book is a how-to guide for statistical analyses designed for undergraduates and others new to the subject. Written in an easy-going and clear style, the book uses policing data to illustrate concepts and includes a short narrative at the beginning of each chapter to engage readers. Easily identified 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 : **£39.99**  
 Hb: 978-1-032-63858-4 : **£155**  
 eBook: 978-1-032-63859-1

\* For full contents and more information, visit: [www.routledge.com/9781032638546](http://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.

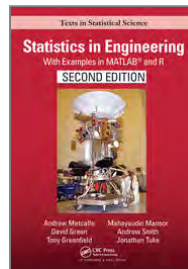
Chapman & Hall  
 December 2015 : 1182pp  
 Hb: 978-1-498-72885-0 : **£94.99**  
 eBook: 978-0-429-07627-5

\* For full contents and more information, visit: [www.routledge.com/9781498728850](http://www.routledge.com/9781498728850)

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.

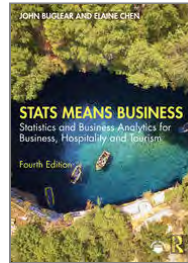
Chapman & Hall  
 June 2020 : 810pp  
 Pb: 978-0-367-57062-0 : **£51.99**  
 Hb: 978-1-439-89547-4 : **£96.99**  
 eBook: 978-1-315-11723-2

\* For full contents and more information, visit: [www.routledge.com/9780367570620](http://www.routledge.com/9780367570620)

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 : 456pp  
 Pb: 978-1-032-75021-7 : **£60.99**  
 Hb: 978-1-032-75018-7 : **£155**  
 eBook: 978-1-003-47202-5

\* For full contents and more information, visit: [www.routledge.com/9781032750217](http://www.routledge.com/9781032750217)

## A Tour of Data Science

Learn R and Python in Parallel



**Nailong Zhang**

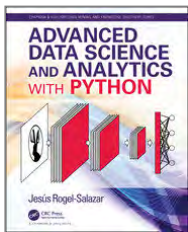
Series: *Chapman & Hall/CRC Data Science Series*

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 : **£52.99**  
Hb: 978-0-367-89706-2 : **£145**  
eBook: 978-1-003-02064-6

\* For full contents and more information, visit: [www.routledge.com/9780367895860](http://www.routledge.com/9780367895860)

## Advanced Data Science and Analytics with Python



**Jesús 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 : **£51.99**  
Hb: 978-0-429-44661-0 : **£115**  
eBook: 978-0-429-44664-1

\* For full contents and more information, visit: [www.routledge.com/9781138315068](http://www.routledge.com/9781138315068)

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 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 : **£60.99**  
Hb: 978-0-367-34187-9 : **£155**  
eBook: 978-0-429-32438-3

\* For full contents and more information, visit: [www.routledge.com/9780367568597](http://www.routledge.com/9780367568597)

2ND EDITION

## Data Science and Analytics with Python



**Jesús Rogel-Salazar** Imperial College London, UK

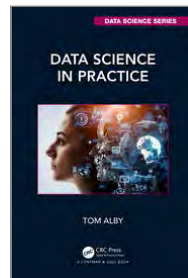
Series: *Chapman & Hall/CRC Data Mining and Knowledge Discovery Series*

Since the first edition, we have witnessed an unprecedented explosion in the interest and development within the fields of Artificial Intelligence and Machine Learning. This surge has led to the widespread adoption of the book, not just among business practitioners, but also by universities as a key textbook. Designed as a practical companion for data analysts and budding data scientists, this book assumes a working knowledge of programming and statistical modelling but aims to guide readers deeper into the wonders of data analytics and machine learning. Whether revisiting fundamental concepts or diving into new, advanced topics, this book offers something valuable for every reader.

Chapman & Hall  
June 2025 : 514pp  
Pb: 978-1-032-77249-3 : **£51.99**  
Hb: 978-1-032-77252-3 : **£140**  
eBook: 978-1-003-48206-2

\* For full contents and more information, visit: [www.routledge.com/9781032772493](http://www.routledge.com/9781032772493)

## 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 : **£61.99**  
Hb: 978-1-032-50524-4 : **£160**  
eBook: 978-1-003-42636-3

\* For full contents and more information, visit: [www.routledge.com/9781032505268](http://www.routledge.com/9781032505268)

## Data Science

A First Introduction



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

Series: *Chapman & Hall/CRC Data Science Series*

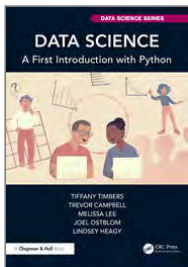
Data Science: A First Introduction focuses on using the R programming language in Jupyter notebooks to perform data manipulation and cleaning, create effective visualizations, and extract insights from data using classification, regression, clustering, and inference. The text emphasizes workflows that 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 : **£55.99**  
Hb: 978-0-367-53217-8 : **£140**  
eBook: 978-1-003-08097-8

\* For full contents and more information, visit: [www.routledge.com/9780367524685](http://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*

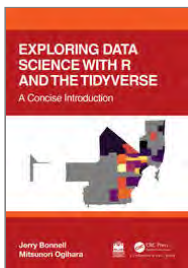
This book focuses on using the Python programming language in Jupyter notebooks to perform data manipulation and cleaning, create effective visualizations, and extract insights from data using classification, regression, clustering, and inference. The text emphasizes workflows that are clear, reproducible, 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 : **£61.99**  
Hb: 978-1-032-57219-2 : **£160**  
eBook: 978-1-003-43839-7

\* For full contents and more information, visit: [www.routledge.com/9781032572239](http://www.routledge.com/9781032572239)

## 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 : **£80.99**  
Hb: 978-1-032-32950-5 : **£205**  
eBook: 978-1-003-32084-5

\* For full contents and more information, visit: [www.routledge.com/9781032341705](http://www.routledge.com/9781032341705)

## 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

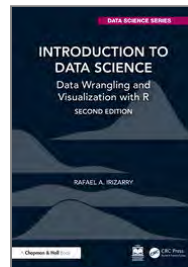
Chapman & Hall  
February 2024 : 496pp  
Pb: 978-1-032-35042-4 : **£77.99**  
Hb: 978-1-032-34674-8 : **£200**  
eBook: 978-1-003-32499-7

\* For full contents and more information, visit: [www.routledge.com/9781032350424](http://www.routledge.com/9781032350424)

2ND EDITION

## Introduction to Data Science

Data Wrangling and Visualization with R



**Rafael A. Irizarry**

Series: *Chapman & Hall/CRC Data Science Series*

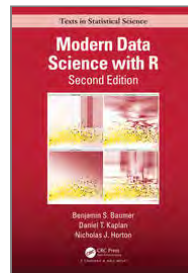
Thoroughly revised and updated, this is the first book of the second edition of Introduction to Data Science: Data Wrangling and Visualization with R. It introduces skills that can help you tackle real-world data analysis challenges. No previous knowledge of R is necessary, although some experience with 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 : **£62.99**  
eBook: 978-1-003-22092-3

\* For full contents and more information, visit: [www.routledge.com/9781032116556](http://www.routledge.com/9781032116556)

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 : **£94.99**  
eBook: 978-0-429-20071-7

\* For full contents and more information, visit: [www.routledge.com/9780367191498](http://www.routledge.com/9780367191498)

## 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.

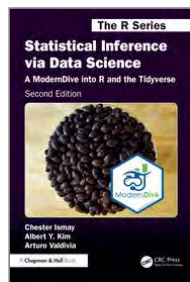
Chapman & Hall  
May 2023 : 402pp  
Pb: 978-0-815-35439-0 : **£57.99**  
Hb: 978-0-815-35447-5 : **£155**  
eBook: 978-1-351-13291-6

\* For full contents and more information, visit: [www.routledge.com/9780815354390](http://www.routledge.com/9780815354390)

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  
May 2025 : 490pp  
Pb: 978-1-032-70837-9 : **£68.99**  
Hb: 978-1-032-72451-5 : **£170**  
eBook: 978-1-032-72454-6

\* For **full contents** and more information, visit: [www.routledge.com/9781032708379](http://www.routledge.com/9781032708379)

## Telling Stories with Data

With Applications in R



**Rohan Alexander**

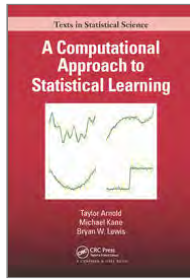
Series: *Chapman & Hall/CRC Data Science Series*

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 : **£83.99**  
eBook: 978-1-003-22940-7

\* For **full contents** and more information, visit: [www.routledge.com/9781032134772](http://www.routledge.com/9781032134772)

## A Computational Approach to Statistical Learning



**Taylor Arnold , Michael Kane , Bryan W. Lewis**

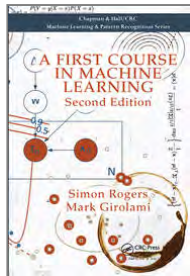
This book synthesizes those techniques from numerical analysis, algorithms, data structures, and optimization theory most commonly employed in statistics and machine learning. We provide concrete applications of these methods by giving complete reference implementations for a large set of the most commonly 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 : **£51.99**  
Hb: 978-1-138-04637-5 : **£86.99**  
eBook: 978-1-315-17140-1

\* For full contents and more information, visit: [www.routledge.com/9780367570613](http://www.routledge.com/9780367570613)

2ND EDITION

## A First Course in Machine Learning



**Simon Rogers , Mark Girolami**

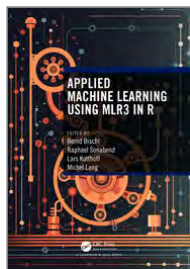
*Series: Chapman & Hall/CRC Machine Learning & Pattern Recognition*

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 : **£45.99**  
Hb: 978-1-498-73848-4 : **£72.99**  
eBook: 978-1-315-38215-9

\* For full contents and more information, visit: [www.routledge.com/9780367574642](http://www.routledge.com/9780367574642)

## 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

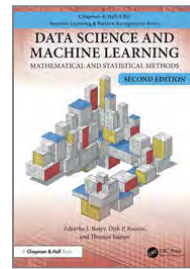
Chapman & Hall  
January 2024 : 356pp  
Pb: 978-1-032-50754-5 : **£67.99**  
Hb: 978-1-032-51567-0 : **£175**  
eBook: 978-1-003-40284-8

\* For full contents and more information, visit: [www.routledge.com/9781032507545](http://www.routledge.com/9781032507545)

2ND EDITION

## Data Science and Machine Learning

Mathematical and Statistical Methods, Second Edition



**Zdravko Botev** University of New South Wales, **Dirk P. Kroese** , **Thomas Taimre**

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

The purpose of Data Science and Machine Learning: Mathematical and Statistical Methods is to provide an accessible, yet comprehensive textbook intended for students interested in gaining a better understanding of the mathematics and statistics that underpin the rich variety of ideas and machine learning algorithms in data science. This expanded second edition provides updates across key areas of statistical learning.

Chapman & Hall  
November 2025 : 758pp  
Hb: 978-1-032-48868-4 : **£78.99**  
eBook: 978-1-003-39117-3

\* For full contents and more information, visit: [www.routledge.com/9781032488684](http://www.routledge.com/9781032488684)

## Deep Learning for Engineers



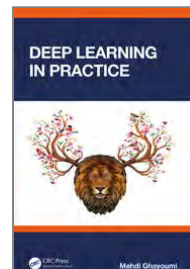
**Tariq M. Arif** Weber State University Ogden, UT, **Md Adilur Rahim** Louisiana State University Baton Rouge, LA

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 : **£52.99**  
Hb: 978-1-032-50473-5 : **£94.99**  
eBook: 978-1-003-40292-3

\* For full contents and more information, visit: [www.routledge.com/9781032515816](http://www.routledge.com/9781032515816)

## Deep Learning in Practice



**Mehdi Ghayoumi** University of San Diego

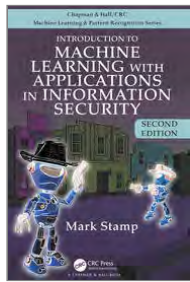
Deep Learning in Practice helps you learn how to develop and optimize a model for your projects using Deep Learning (DL) methods and architectures. This book is useful for undergraduate and graduate students, as well as practitioners in industry and academia. It will serve as a useful reference for learning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

Chapman & Hall  
June 2025 : 218pp  
Pb: 978-0-367-45658-0 : **£44.99**  
Hb: 978-0-367-45862-1 : **£82.99**  
eBook: 978-1-003-02581-8

\* For full contents and more information, visit: [www.routledge.com/9780367456580](http://www.routledge.com/9780367456580)

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*

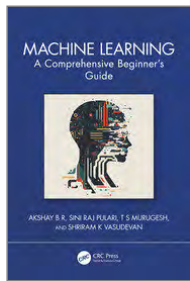
Introduction to Machine Learning with Applications in Information Security, Second Edition provides a classroom-tested introduction to a wide variety of machine learning and deep learning algorithms and techniques, reinforced with realistic applications. The book is accessible and doesn't prove theorems, 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 : **£47.99**  
Hb: 978-1-032-20492-5 : **£70.99**  
eBook: 978-1-003-26487-3

\* For full contents and more information, visit: [www.routledge.com/9781032207179](http://www.routledge.com/9781032207179)

## 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 : **£50.99**  
Hb: 978-1-032-67665-4 : **£135**  
eBook: 978-1-032-67668-5

\* For full contents and more information, visit: [www.routledge.com/9781032676661](http://www.routledge.com/9781032676661)

## Machine Learning Toolbox for Social Scientists

Applied Predictive Analytics with R



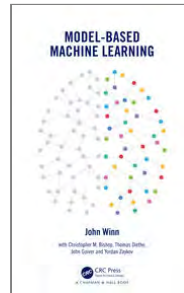
**Yigit Aydede** Professor, Saint Mary's University

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 : **£86.99**  
eBook: 978-1-003-38150-1

\* For full contents and more information, visit: [www.routledge.com/9781032463957](http://www.routledge.com/9781032463957)

## Model-Based Machine Learning



**John Winn** Microsoft Research Ltd., Cambridge, United Kingdom

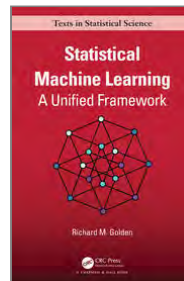
Machine learning is being applied to a growing variety of problems in a variety of domains. A fundamental challenge when using machine learning is connecting the abstract mathematics of a machine learning technique to real world problems. This book tackles this through model-based machine learning, focusing 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 : **£75.99**  
eBook: 978-0-429-19268-5

\* For full contents and more information, visit: [www.routledge.com/9781498756815](http://www.routledge.com/9781498756815)

## Statistical Machine Learning

A Unified Framework



**Richard Golden**

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

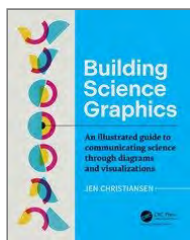
For advanced undergraduate students, graduate students, and professional. Presents a wide range of popular, disparate, and diverse machine learning algorithms within a unified theoretical framework, characterized by a collection of carefully chosen theorems from the fields of nonlinear optimization theory 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 : **£125**  
eBook: 978-1-351-05150-7

\* For full contents and more information, visit: [www.routledge.com/9781138484696](http://www.routledge.com/9781138484696)

## 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 : **£44.99**  
Hb: 978-1-032-10940-4 : **£105**  
eBook: 978-1-003-21781-7

\* For full contents and more information, visit: [www.routledge.com/9781032106748](http://www.routledge.com/9781032106748)

## 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  
June 2025 : 284pp  
Hb: 978-1-032-79775-5 : **£37.99**  
eBook: 978-1-003-49780-6

\* For full contents and more information, visit: [www.routledge.com/9781032797755](http://www.routledge.com/9781032797755)

## Data Sketches

A journey of imagination, exploration, and beautiful data visualizations



**Nadieh Bremer, Shirley Wu**

Series: *AK Peters Visualization Series*

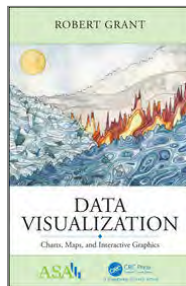
In *Data Sketches*, Nadieh Bremer and Shirley Wu document the creative and collaborative process behind 24 unique data visualization projects, spanning different topics, technologies, and forms. Features: Technical write-ups with beginner-friendly explanations of core concepts; Practical lessons on data 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 : **£41.99**  
Hb: 978-0-367-00012-7 : **£115**  
eBook: 978-0-429-44501-9

\* For full contents and more information, visit: [www.routledge.com/9780367000080](http://www.routledge.com/9780367000080)

## 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*

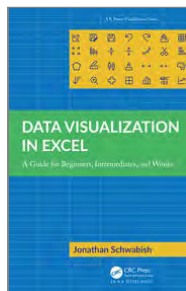
This is the age of data. There are more innovations and more opportunities for interesting work with data than ever before, but there is also an overwhelming amount of quantitative information being published every day. Data visualisation has become big business, because communication is the difference 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 : **£24.99**  
Hb: 978-1-138-55359-0 : **£89.99**  
eBook: 978-1-315-20135-1

\* For full contents and more information, visit: [www.routledge.com/9781138707603](http://www.routledge.com/9781138707603)

## Data Visualization in Excel

A Guide for Beginners, Intermediates, and Wonks



**Jonathan Schwabish**

Series: *AK Peters Visualization Series*

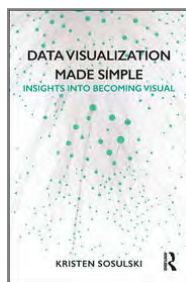
*Data Visualization in Excel* closes the gap between what people think Excel can do and what they can achieve in the tool. Over the past few years, recognition of the importance of effectively visualizing data has led to an explosion data analysis and visualization software tools. But for many people, 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](http://www.routledge.com/9781032343266)

## 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 : **£39.99**  
Hb: 978-1-138-50387-8 : **£160**  
eBook: 978-1-315-14609-6

\* For full contents and more information, visit: [www.routledge.com/9781138503915](http://www.routledge.com/9781138503915)

## Modern Data Visualization with R



**Robert Kabacoff**

Series: *Chapman & Hall/CRC The R Series*

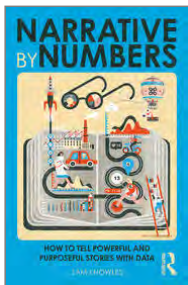
Describes ways that raw and summary data can be turned into visualizations that convey meaningful insights: basic graphs, bar charts, scatter plots, and line charts, and progresses to tree maps, alluvial plots, radar charts, mosaic plots, grouped dot plots, effects plots, multivariate presentations such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

Chapman & Hall  
March 2024 : 271pp  
Pb: 978-1-032-28760-7 : **£67.99**  
Hb: 978-1-032-28949-6 : **£175**  
eBook: 978-1-003-29927-1

\* For full contents and more information, visit: [www.routledge.com/9781032287607](http://www.routledge.com/9781032287607)

## Narrative by Numbers

How to Tell Powerful and Purposeful Stories with Data



**Sam Knowles**

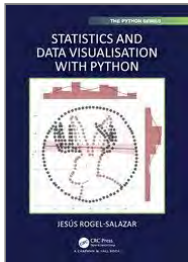
Series: *Using Data Better*

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 : **£39.99**  
Hb: 978-0-815-35315-7 : **£155**  
eBook: 978-1-351-13722-5

\* For full contents and more information, visit: [www.routledge.com/9780815353140](http://www.routledge.com/9780815353140)

## Statistics and Data Visualisation with Python



**Jesús 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 do not necessarily use it in their daily work.

Chapman & Hall  
January 2023 : 554pp  
Pb: 978-0-367-74451-9 : **£49.99**  
Hb: 978-0-367-74936-1 : **£135**  
eBook: 978-1-003-16035-9

\* For full contents and more information, visit: [www.routledge.com/9780367744519](http://www.routledge.com/9780367744519)

## The Data Storytelling Workbook



**Anna Feigenbaum , Aria Alamalhodaei**

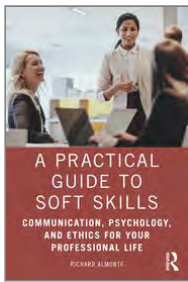
From tracking down information to symbolising human experiences, this book is your guide for telling more effective, empathetic and evidence-based data stories. Wide-ranging and in-depth, this interdisciplinary book is essential for students and researchers in journalism, communication, media, visual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

Routledge  
March 2020 : 256pp  
Pb: 978-1-138-05211-6 : **£38.99**  
Hb: 978-1-138-05210-9 : **£155**  
eBook: 978-1-315-16801-2

\* For full contents and more information, visit: [www.routledge.com/9781138052116](http://www.routledge.com/9781138052116)

## 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 : **£47.99**  
Hb: 978-1-032-08101-4 : **£160**  
eBook: 978-1-003-21294-2

\* For full contents and more information, visit: [www.routledge.com/9781032071053](http://www.routledge.com/9781032071053)

3RD EDITION

## Advanced Public Speaking

A Leader's Guide



**Michael J. Hostetler** St. John's University, USA, **Mary L. Kahl**

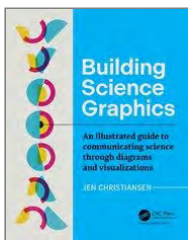
Providing users with the opportunity to increase their speaking abilities across a wide variety of complex and specific contexts, this student-engagement focused and flexible text serves as a core textbook for upper-level undergraduate public speaking courses.

Routledge  
March 2024 : 212pp  
Pb: 978-1-032-53186-1 : **£66.99**  
Hb: 978-1-032-53187-8 : **£150**  
eBook: 978-1-003-41078-2

\* For full contents and more information, visit: [www.routledge.com/9781032531861](http://www.routledge.com/9781032531861)

## Building Science Graphics

An Illustrated Guide to Communicating Science through Diagrams and Visualizations



**Jen Christiansen**

Series: *AK Peters Visualization Series*

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

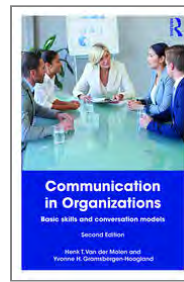
A K Peters/CRC Press  
August 2022 : 357pp  
Pb: 978-1-032-10674-8 : **£44.99**  
Hb: 978-1-032-10940-4 : **£105**  
eBook: 978-1-003-21781-7

\* For full contents and more information, visit: [www.routledge.com/9781032106748](http://www.routledge.com/9781032106748)

2ND EDITION

## Communication in Organizations

Basic Skills and Conversation Models



**Henk T. Van der Molen**, **Yvonne Gramsbergen-Hoogland**

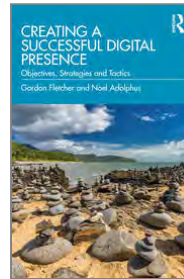
This new edition continues to give clear advice and guidance on communicating in a range of different contexts in the workplace. From handling complaints and breaking bad news to negotiating deals and giving presentations, the book explores the building blocks to effective communication skills, nurturing 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 : **£35.99**  
Hb: 978-1-138-55210-4 : **£155**  
eBook: 978-1-315-14796-3

\* For full contents and more information, visit: [www.routledge.com/9781138552128](http://www.routledge.com/9781138552128)

## Creating a Successful Digital Presence

Objectives, Strategies and Tactics



**Gordon Fletcher**, **Noel Adolphus**

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

Routledge  
July 2021 : 212pp  
Pb: 978-0-367-46037-2 : **£41.99**  
Hb: 978-0-367-46034-1 : **£155**  
eBook: 978-1-003-02658-7

\* For full contents and more information, visit: [www.routledge.com/9780367460372](http://www.routledge.com/9780367460372)

## English for Business Communication



**Mable Chan**

Series: *Routledge Applied English Language Introductions*

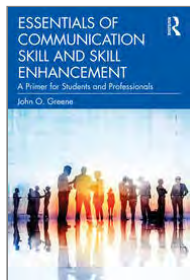
This textbook provides a comprehensive introduction for students and professionals who are studying English for business or workplace communication and covers both spoken and written English. Based on up-to-date research in business communication and incorporating an international range of real-world 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 : **£39.99**  
Hb: 978-1-138-48167-1 : **£155**  
eBook: 978-1-351-06003-5

\* For full contents and more information, visit: [www.routledge.com/9781138481688](http://www.routledge.com/9781138481688)

## Essentials of Communication Skill and Skill Enhancement

A Primer for Students and Professionals



**John O. Greene**

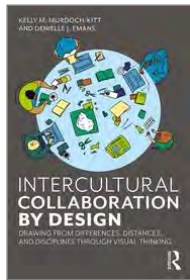
For those who wish to learn or teach the tools of skillful communication, this book provides concrete insight into what makes a person a successful communicator. Predicated on four simple notions—that communication can be done well or poorly, that communication skills matter, that people differ in those 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 : **£40.99**  
Hb: 978-0-367-53838-5 : **£155**  
eBook: 978-1-003-08345-0

\* For full contents and more information, visit: [www.routledge.com/9780367534288](http://www.routledge.com/9780367534288)

## 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 : **£35.99**  
Hb: 978-0-367-21932-1 : **£140**  
eBook: 978-0-429-26882-3

\* For full contents and more information, visit: [www.routledge.com/9780367219314](http://www.routledge.com/9780367219314)

## 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 as 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 : **£38.99**  
Hb: 978-1-032-25907-9 : **£140**  
eBook: 978-1-003-28557-1

\* For full contents and more information, visit: [www.routledge.com/9781032259062](http://www.routledge.com/9781032259062)

## 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 : **£40.99**  
Hb: 978-1-032-62787-8 : **£155**  
eBook: 978-1-032-62789-2

\* For full contents and more information, visit: [www.routledge.com/9781032625324](http://www.routledge.com/9781032625324)

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.

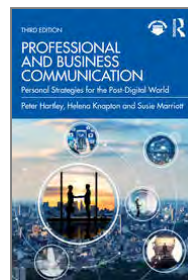
Routledge  
April 2024 : 246pp  
Pb: 978-1-032-53763-4 : **£105**  
Hb: 978-1-032-54052-8 : **£235**  
eBook: 978-1-032-72308-2 : **£96.99**

\* For full contents and more information, visit: [www.routledge.com/9781032537634](http://www.routledge.com/9781032537634)

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 : **£38.99**  
Hb: 978-1-032-28586-3 : **£155**  
eBook: 978-1-003-29755-0

\* For full contents and more information, visit: [www.routledge.com/9781032268002](http://www.routledge.com/9781032268002)

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 : **£55.99**  
Hb: 978-1-032-02185-0 : **£155**  
eBook: 978-1-003-18226-9

\* For **full contents** and more information, visit: [www.routledge.com/9781032008783](http://www.routledge.com/9781032008783)

## 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 : **£38.99**  
Hb: 978-1-032-27185-9 : **£140**  
eBook: 978-1-003-29171-8

\* For **full contents** and more information, visit: [www.routledge.com/9781032257778](http://www.routledge.com/9781032257778)



## Taylor & Francis offers the flexibility you need

Whether you are interested in eBook platform integration to provide course texts, or simply purchasing books for your students, we can help make it happen.

The majority of Taylor & Francis Group content is available as both print and e-books. At Taylor & Francis we work with some of the top eBook platform providers, such as VitalSource, Kortext, BibliU. We offer our e-books as PDF and EPUB.

If you would like to learn more about Inclusive Coursebook Provision, please contact the Taylor & Francis sales team to discuss further. Visit our website to find out more:

<https://www.routledge.com/our-customers/instructors/affordability/inclusive-coursebook-provision>

# Routledge Resources Online

Offering peer-reviewed articles, overviews and insights, across a wide range of disciplines, Routledge Resources Online are the definitive digital reference products for students and faculty. From presenting short topics and showcasing key entries, to covering important cutting edge and major themes, Routledge Resources Online offer high quality, easily discoverable articles, written by global academic experts in the field.

## KEY FEATURES:

- » A diverse range of newly written and peer-reviewed articles, overviews, and insights, across a wide range of disciplines
- » Written, compiled and peer-reviewed by global academic experts in the field
- » Accessible entry points to a variety of content learning types and levels
- » 200+ entries per product
- » Intuitive search and detailed metadata
- » Updated bi-annually to reflect emerging trends as the study evolves
- » Easily accessed and discoverable content





**ROUTLEDGE** Education  
Routledge Resources Online

**RRO – Education** features brand new, specially commissioned content in 9 key areas: Assessment, Multicultural Education, Social and Emotional Learning, Educational Technology, Special Education, Educational Psychology, Curriculum, Instruction, and Educational Leadership. Led by General Editor Douglas Fisher, RRO – Education is an ever-evolving resource covering core and emerging topics in Education.

**Learn more at:** <https://taylorfrancis.com/rroe>



**ROUTLEDGE** Psychology in the Real World  
Routledge Resources Online

**RRO – Psychology in the Real World** features brand new content that support the teaching and learning of Psychology in 7 key areas – law, education, social change, work, sport, relationships and health. Led by General Editor Regan Gurung and a world-leading team of academics, this is an ever-evolving online resource that allows students to explore the field of Psychology and investigate both established and emerging topics.

**Learn more at:** <https://taylorfrancis.com/rroprw>



**ROUTLEDGE** Medieval Studies  
Routledge Resources Online

**RRO – Medieval Studies** features a diverse range of peer-reviewed articles, covering geographic and thematic areas across the medieval period. Topics include Culture; Identities; Religion; Powers; Environment, Production, and Exchange; Islamic History and Culture; and Jewish Civilization, as well as an emphasis on Writing History and Methodology. Led by General Editor Professor Hannele Klemettilä, RRO – Medieval Studies is a cutting-edge resource containing both new and revised articles, providing students and researchers with an in-depth understanding of established subjects as well as new insights into the field.

**Learn more at:** <https://taylorfrancis.com/rroms>



**ROUTLEDGE** The Renaissance World  
Routledge Resources Online

**RRO – The Renaissance World** features specially-commissioned, peer-reviewed new content that supports the teaching and learning of this historical time period. Covering the 14th to the 18th century, key subject areas include Art and Architecture, Economy and Commerce, Environment, Literature and Drama, Politics and Governance, Religion, and Society. Led by General Editor Kristen Poole and a world-leading team of academics, this resource provides a truly global perspective that can easily be incorporated into the learning environment.

**Learn more at:** <https://taylorfrancis.com/rrow>



**ROUTLEDGE** Chinese Studies  
Routledge Resources Online

**RRO – Chinese Studies** features brand new content that supports the teaching and learning of Chinese Studies in 14 key areas including: international relations, history and war, business and economy, law and criminology, medicine and public health, media, science and technology, sociology, literary studies and cultural studies. Led by General Editor Chris Shei and a world-leading team of academics, this is a comprehensive, diverse and inclusive online resource connecting the past, present, and future of China, that allows students to explore the field of Chinese Studies and investigate both established and emerging topics.

**Learn more at:** <https://taylorfrancis.com/rroc>



**ROUTLEDGE** Sport Studies  
Routledge Resources Online

**RRO – Sport Studies** features brand new, expertly commissioned content in the following key areas: business and marketing, events, sport and disability, development, education, history, philosophy, performance, sociology, research, and sport, health and wellbeing. Led by General Editor Vassil Girginov, RRO – Sport Studies is an ever-evolving resource covering core and emerging topics in Sport Studies. With over 200 entries, intuitive search, and detailed metadata, it will provide a high-quality entry into the field of sport studies as well as an authoritative treatment of topical subjects and guide the study of sport through different perspectives.

**Learn more at:** <https://taylorfrancis.com/rross>