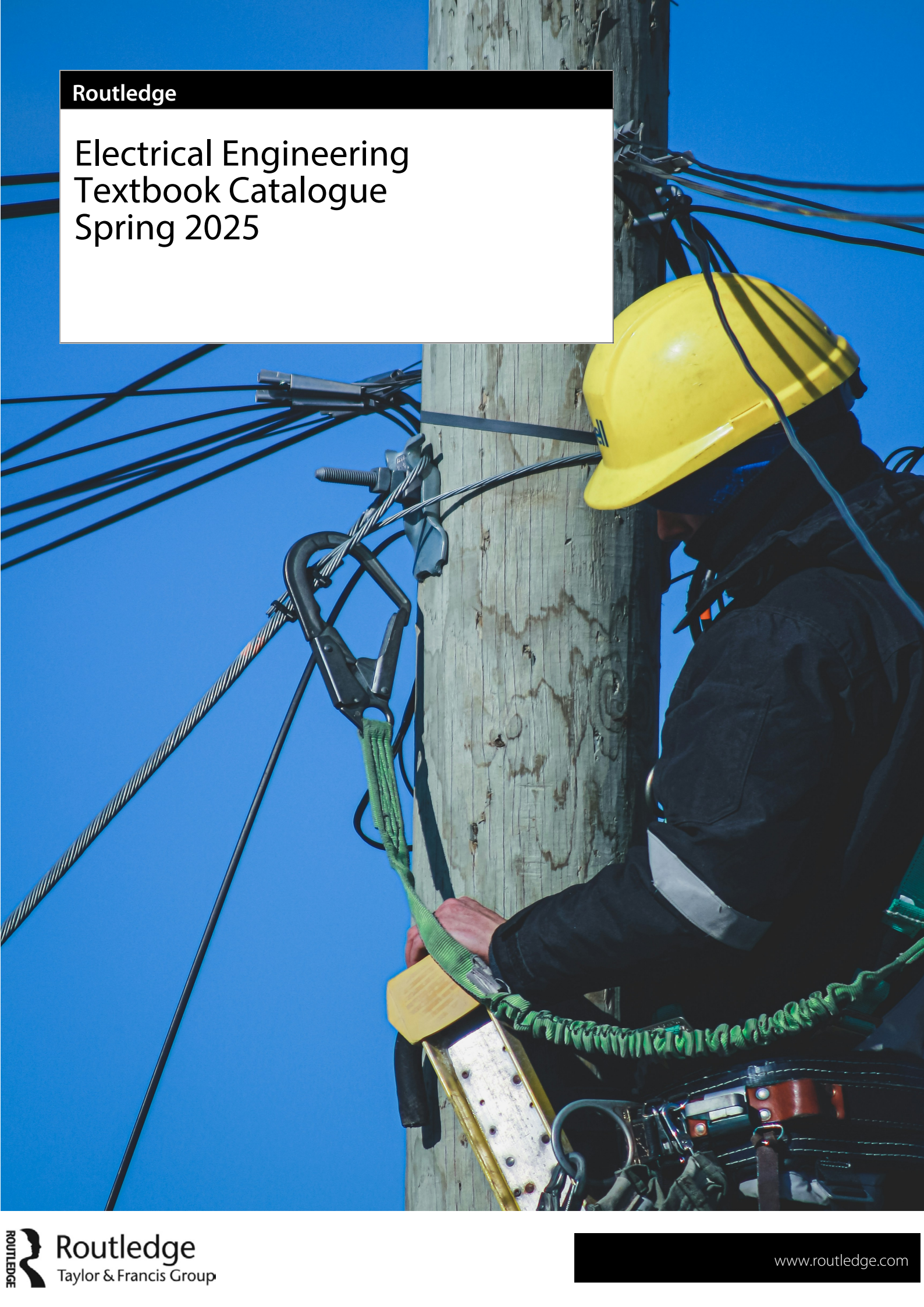




Routledge

Electrical Engineering Textbook Catalogue Spring 2025

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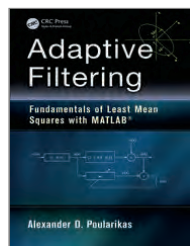
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https://www.routledge.com/go/Open_Access_Title_Catalogues

Adaptive Filtering

Fundamentals of Least Mean Squares with MATLAB®



Alexander D. Poularikas The University of Alabama in Huntsville, USA

This book covers the fundamentals of adaptive filtering, with a focus on the least mean square (LMS) adaptive filter. It discusses random variables, stochastic processes, vectors, matrices, determinants, discrete random signals, and probability distributions, while delivering a concise introduction to MATLAB®—complete with problems, computer experiments, and over 110 functions and script files. The text not only addresses the basics of the LMS adaptive filter algorithm but also explores the Wiener filter and its applications, details the steepest descent method, and develops the Newton's algorithm.

CRC Press

September 2014 : 364pp

Pb: 978-1-482-25335-1 : **£96.99**

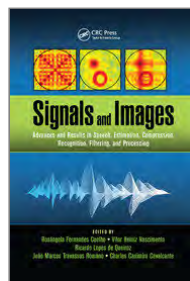
Hb: 978-1-138-41791-5 : **£185**

eBook: 978-1-315-21513-6

* For full contents and more information, visit: www.routledge.com/9781482253351

Signals and Images

Advances and Results in Speech, Estimation, Compression, Recognition, Filtering, and Processing



Edited by **Rosângela Fernandes Coelho** Military Institute of Engineering, Rio de Janeiro, Brazil, **Vitor Heloiz Nascimento** University of São Paulo, Brazil, **Ricardo Lopes de Queiroz** University of Brasília, Brazil, **João Marcos Travassos Romano** University of Campinas, São Paulo, Brazil, **Charles Casimiro Cavalcante** Federal University of Ceará, Fortaleza, Brazil

This book cohesively combines contributions from field experts to deliver a comprehensive account of the latest developments in signal processing. It not only shows how signal processing theory is applied, but also demonstrates how to tackle key problems such as how to enhance speech in the time domain, improve audio quality, and meet the desired electrical consumption target for controlling carbon emissions. The text serves as a guide to the next generation of signal processing solutions for speech and video coding, smartphones, and beyond.

CRC Press

July 2017 : 628pp

Pb: 978-1-138-89301-6 : **£71.99**

Hb: 978-1-498-72236-0 : **£175**

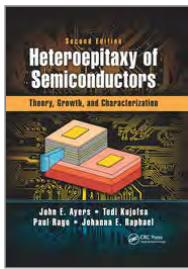
eBook: 978-1-315-21421-4

* For full contents and more information, visit: www.routledge.com/9781138893016

2ND EDITION

Heteroepitaxy of Semiconductors

Theory, Growth, and Characterization, Second Edition



John E. Ayers , Tedi Kujofsa , Paul Rago , Johanna Raphael

This book serves as a comprehensive reference and graduate-level text on Semiconductor Heteroepitaxy —the crystal growth of semiconductor layers on dissimilar substrates for the purpose of making modern semiconductor devices including high-speed transistors, lasers and detectors, digital circuits, photovoltaic cells, solid-state lighting, and sensors. Semiconductor Heteroepitaxy has become increasingly important as an enabling technology for computing, communication, energy, lighting, and control systems. The first edition remains the top book in the field because of its comprehensive treatment and focus on principles. This newest edition includes two entirely new chapters on metamorphic

CRC Press

September 2020 : 659pp

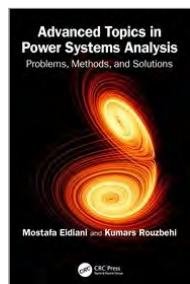
Pb: 978-0-367-65580-8 : **£105**Hb: 978-1-482-25435-8 : **£250**

eBook: 978-1-315-37244-0

* For full contents and more information, visit: www.routledge.com/9780367655808

Advanced Topics in Power Systems Analysis

Problems, Methods, and Solutions



Mostafa Eidani , Kumars Rouzbehi

Electric Power Systems Analysis* is one of the most challenging courses of the Electric Power Engineering major which is taught for junior students. Its complexity arises from numerous prerequisites, a wide array of topics, and a crucial dependence on computational tools, presenting students with significant challenges."

CRC Press

September 2024 : 134pp

Pb: 978-1-032-82866-4 : **£41.99**

Hb: 978-1-032-82878-7 : **£91.99**

eBook: 978-1-003-50677-5 : **£38.99**

* For full contents and more information, visit: www.routledge.com/9781032828664

An Introduction to Safety Grounding



Asser A. Zaky

Protective or safety grounding is of vital importance for the protection of individuals from electric shock. To many electrical engineers the notion of grounding is nebulous and safety grounding is quite often confused with neutral grounding of the power supply. The main objective of this book is to give the reader a better understanding of safety grounding, why it is needed, where it is needed, and what are the requirements which must be met in order to have an effective grounding system. This book is a practical guide that provides comprehensive coverage of all types of grounding requirements and is intended for students and practicing electrical engineers alike.

CRC Press

September 2023 : 182pp

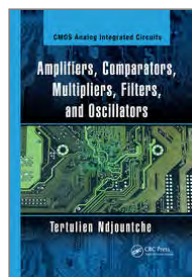
Pb: 978-0-367-75927-8 : **£49.99**

Hb: 978-0-367-75871-4 : **£91.99**

eBook: 978-1-003-16463-0

* For full contents and more information, visit: www.routledge.com/9780367759278

Amplifiers, Comparators, Multipliers, Filters, and Oscillators



Tertulien Ndjountche

The book presents design methods for analog integrated circuits with improved electrical performance. It describes different equivalent transistor models, design methods, and fabrication considerations for high-density integrated circuits in nanometer CMOS processes, and it analyzes circuit architectures that are suitable for analog building blocks. Highlighting various design challenges, the text offers a complete understanding of architectural- and transistor-level design issues of analog integrated circuits. It examines important trends in the design of high-speed and power-efficient front-end analog circuits that can be used for signal conditioning, filtering, and detection applications.

CRC Press
December 2020 : 672pp
Pb: 978-0-367-73310-0 : **£45.99**
Hb: 978-1-138-59972-7 : **£155**
eBook: 978-0-429-48556-5

* For full contents and more information, visit: www.routledge.com/9780367733100

Integrated Circuit Design

IC Design Flow and Project-Based Learning



Xiaokun Yang

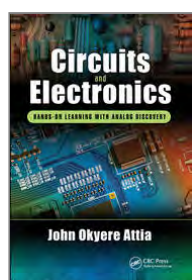
This textbook provides HDL-based examples, experiments, and projects able to cover real industry needs such as design/coding rules and methodologies. It will help readers build a connection between the HDL code and hardware circuits. This book can be used as a textbook for integrated circuit design and simulation courses. The audience includes senior undergraduate and graduate students, researchers, and entry-level design and verification engineers in the integrated circuit design industry.

CRC Press
November 2024 : 506pp
Hb: 978-1-032-03079-1 : **£99.99**
eBook: 978-1-003-18708-0

* For full contents and more information, visit: www.routledge.com/9781032030791

Circuits and Electronics

Hands-on Learning with Analog Discovery



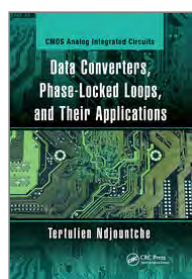
John Okyere Attia

The book provides instructions on building circuits on breadboards, connecting the Analog Discovery wires to the circuit under test, and making electrical measurements. Various measurement techniques are described and used in this book, including: impedance measurements, complex power measurements, frequency response measurements, power spectrum measurements, current versus voltage characteristic measurements of diodes, bipolar junction transistors, and Mosfets. The book includes end-of-chapter problems for additional exercises geared towards hands-on learning, experimentation, comparisons between measured results and those obtained from theoretical calculations.

CRC Press
March 2021 : 206pp
Pb: 978-0-367-78171-2 : **£45.99**
Hb: 978-1-138-29732-6 : **£84.99**
eBook: 978-1-315-09866-1

* For full contents and more information, visit: www.routledge.com/9780367781712

Data Converters, Phase-Locked Loops, and Their Applications



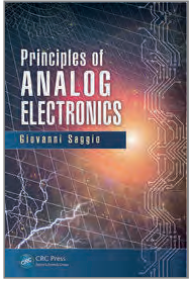
Tertulien Ndjountche

With a focus on designing and verifying CMOS analog integrated circuits, the book reviews design techniques for mixed-signal building blocks, such as Nyquist and oversampling data converters, and circuits for signal generation, synthesis, and recovery. The text details all aspects, from specifications to the final circuit, of the design of digital-to-analog converters, analog-to-digital converters, phase-locked loops, delay-locked loops, high-speed input/output link transceivers, and class D amplifiers. Special emphasis is put on calibration methods that can be used to compensate circuit errors due to device mismatches and semiconductor process variations.

CRC Press
December 2020 : 506pp
Pb: 978-0-367-73311-7 : **£48**
Hb: 978-1-138-59973-4 : **£165**
eBook: 978-0-429-48554-1

* For full contents and more information, visit: www.routledge.com/9780367733117

Principles of Analog Electronics



Giovanni Saggio Università degli Studi di Roma - Tor Vergata, Italy

Richly illustrated in full color, this textbook introduces you to the fascinating world of analog electronics, where fields, circuits, signals and systems, and semiconductors meet. The author expertly blends theory with practical examples to give a clear understanding of how real electronic circuits work. The book reviews the prerequisite mathematics, physics, and chemistry and the theory of circuits before delving into passive and active electronic devices. Taking a fresh approach, it connects electronics to everyday life through interesting observations, key personalities, and real-world applications.

CRC Press

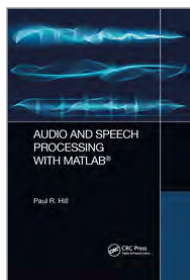
January 2014: 568pp

Hb: 978-1-466-58201-9: **£81**

eBook: 978-0-429-07301-4

* For full contents and more information, visit: www.routledge.com/9781466582019

Audio and Speech Processing with MATLAB



Paul Hill

Speech and audio processing has undergone a revolution in preceding decades that has accelerated in the last few years generating game-changing technologies such as truly successful speech recognition systems; a goal that had remained out of reach until very recently. This book gives the reader a comprehensive overview of such contemporary speech and audio processing techniques with an emphasis on practical implementations and illustrations using MATLAB code. Core concepts are firstly covered giving an introduction to the physics of audio and vibration together with their representations using complex numbers, Z transforms and frequency analysis transforms such as the FFT.

CRC Press

September 2020 : 354pp

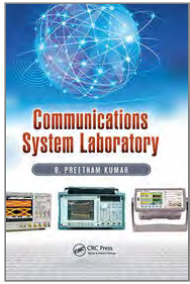
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Communications System Laboratory



B. Preetham Kumar

This book offers an integrated approach, combining theory, simulation using computer tools, and experimental practice using hardware. Each chapter includes the following components: a brief theory that describes the underlying mathematics and principles, a problem-solving section with a set of typical problems, a computer laboratory with programming examples and exercises in MATLAB® and Simulink®, and finally, when applicable, a hardware laboratory with exercises using test and measurement equipment. The text not only covers fundamentals like frequency and bandwidth, but also highlights current and future technologies.

CRC Press

March 2021 : 440pp

Pb: 978-0-367-78334-1 : **£45.99**

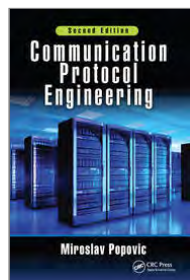
Hb: 978-1-482-24544-8 : **£84.99**

eBook: 978-0-429-16102-5

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2ND EDITION

Communication Protocol Engineering

**Miroslav Popovic**

The book aims to enable the reader to master the engineering of communication protocols, which are amply present nowadays in mobile phones, tablets, laptops, smart appliances, and service providers' datacenters and clouds. Readers will acquire the theoretical knowledge and practical skills to successfully design, implement, test, and verify their solutions. The key benefits of the new edition align with the latest standard for conformance testing, TTCN-3, along with updated chapters. It explains process algebra CSP and how to model, simulate, and automatically verify CSP models in PAT.

CRC Press

June 2021 : 566pp

Pb: 978-1-032-09579-0 : **£49.99**Hb: 978-1-138-55812-0 : **£135**

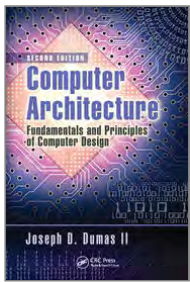
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2ND EDITION

Computer Architecture

Fundamentals and Principles of Computer Design, Second Edition



Joseph D. Dumas II

This book explains, in easily understandable language, the key architectural principles and implementation techniques used to design and build modern computer systems – from embedded controllers to supercomputers, and everything in between. It will give undergraduate and master's level students studying computer science, computer engineering, and/or electrical engineering both a thorough understanding of how computers work and what characteristics to look for when buying a computer system for personal or organizational needs. It does this by incorporating information about actual computer systems, while providing simplified pedagogical examples where the details of real chips would be over.

CRC Press
June 2021 : 302pp
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eBook: 978-1-315-36711-8

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Designing Switch/Routers

Fundamental Concepts, Design Methods, Architectures and Applications



James Aweya

This two-volume set focuses on fundamental concepts and design goals (i.e., a switch/router's key features), architectures, and practical applications of switch/routers in IP networks. The discussion includes practical design examples to illustrate how switch/routers are designed and how the key features are implemented. This book provides a discussion of the design of switch/routers and is written in a style to appeal to undergraduate and graduate-level students, engineers, and researchers in the networking and telecoms industry, as well as academics and other industry professionals.

CRC Press
October 2022 : 702pp
Pb: 978-1-032-31581-2 : **£125**
Hb: 978-1-032-31767-0 : **£300**

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Designing Switch/Routers

Fundamental Concepts and Design Methods



James Aweya

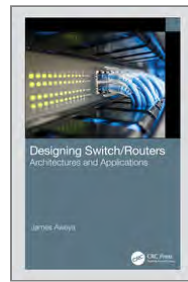
This book examines the fundamental concepts and design methods associated with switch/routers. The book discusses the main factors that are driving the changing network landscape and propelling the continuous growth in demand for bandwidth and high-performance network devices. This book provides an introductory level discussion of switch/routers and is written in a style to appeal to undergraduate and graduate-level students, engineers, and researchers in the networking and telecoms industry, as well as academics and other industry professionals.

CRC Press
October 2022 : 350pp
Pb: 978-1-032-31582-9 : **£76.99**
Hb: 978-1-032-31769-4 : **£195**
eBook: 978-1-003-31124-9

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Designing Switch/Routers

Architectures and Applications



James Aweya

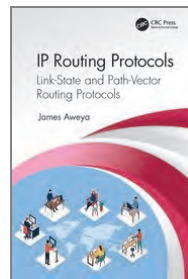
This book focuses more on the design goals (i.e., a switch/router's key features), architectures, and practical applications of switch/routers in IP networks. The discussion includes some practical design examples to illustrate how switch/routers are designed and how the key features are implemented. This book provides a discussion of the design of switch/routers and is written in a style to appeal to undergraduate and graduate-level students, engineers, and researchers in the networking and telecoms industry, as well as academics and other industry professionals.

CRC Press
October 2022 : 352pp
Pb: 978-1-032-31583-6 : **£81**
Hb: 978-1-032-31770-0 : **£205**
eBook: 978-1-003-31125-6

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IP Routing Protocols

Link-State and Path-Vector Routing Protocols



James Aweya

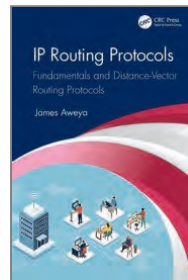
This book discusses link-state routing protocols (OSPF and IS-IS), and the path-vector routing protocol (BGP). It covers their most identifying characteristics, operations, and the databases they maintain. Material is presented from a practicing engineer's perspective, linking theory and fundamental concepts to common practices and real-world examples. The discussion is presented in a simple style to make it comprehensible and appealing to undergraduate and graduate level students, research and practicing engineers, scientists, IT personnel, and network engineers.

CRC Press
May 2021 : 444pp
Pb: 978-0-367-70963-1 : **£68.99**
Hb: 978-0-367-71036-1 : **£170**
eBook: 978-1-003-14901-9

* For full contents and more information, visit: www.routledge.com/9780367709631

IP Routing Protocols

Fundamentals and Distance-Vector Routing Protocols



James Aweya

This book focuses on the fundamental concepts of IP routing and distance-vector routing protocols (RIPv2 and EIGRP). It discusses routing protocols from a practicing engineer's perspective, linking theory and fundamental concepts to common practices and everyday examples. The discussion is presented in a simple style to make it comprehensible and appealing to undergraduate and graduate level students, research and practicing engineers, scientists, IT personnel, and network engineers.

CRC Press
May 2021 : 324pp
Pb: 978-0-367-70962-4 : **£68.99**
Hb: 978-0-367-71041-5 : **£170**
eBook: 978-1-003-14904-0

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IP Routing Protocols

Two-Volume Set



James Aweya

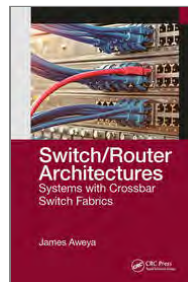
This two-volume book describes the most common IP routing protocols used today, explaining the underlying concepts of each protocol and how the protocol components and processes fit within the typical router. Unlike other books, this title is not vendor focused. Volume 1 discusses fundamental concepts of IP routing and distance-vector routing protocols (RIPv2 and EIGRP). Volume 2 focuses on link-state routing protocols (OSPF and IS-IS) and the only path-vector routing protocol in use today (BGP). The volumes' simple style to make them comprehensible and appealing to undergraduate and graduate level students, research and practicing engineers, scientists, IT personnel, and network engineers.

CRC Press
May 2021 : 768pp
Pb: 978-0-367-70959-4 : **£91.99**
Hb: 978-0-367-71040-8 : **£240**

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Switch/Router Architectures

Systems with Crossbar Switch Fabrics



James Aweya

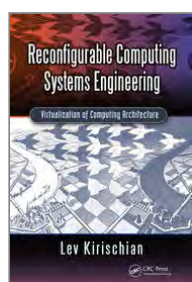
Crossbar switch fabrics offer many benefits when designing switch/routers. This book discusses switch/router architectures using design examples and case studies of well-known systems that employ crossbar switch fabric as their internal interconnects. This book will be of benefit to telecoms/networking industry professionals as well as researchers and academics looking for more practical and efficient approaches for designing non-blocking crossbar switch fabrics.

CRC Press
October 2023 : 366pp
Pb: 978-1-032-65421-8 : **£49.99**
Hb: 978-0-367-40785-8 : **£175**
eBook: 978-0-367-80904-1

* For full contents and more information, visit: www.routledge.com/9781032654218

Reconfigurable Computing Systems Engineering

Virtualization of Computing Architecture



Lev Kirischian

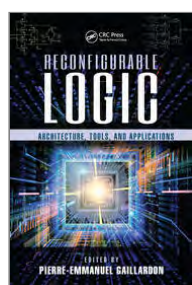
This book offers a road map to the synthesis of reconfigurable computing system (RCS) architecture, exploring the process from the system and on-chip levels. It describes in detail all aspects of hardware virtualization in RCS platforms—from system-on-chip components to on-board levels—for application-specific workloads, presenting methodologies for rapid adaptation to multi-parametric constraints by dynamic reconfiguration of the RCS architecture. Featuring illustrative examples, case studies, homework problems, and important literature references, the text provides a solid understanding of RCS technology and where it's most effective.

CRC Press
March 2021 : 346pp
Pb: 978-0-367-77920-7 : **£47.99**
Hb: 978-1-439-85621-5 : **£120**
eBook: 978-1-315-37469-7

* For full contents and more information, visit: www.routledge.com/9780367779207

Reconfigurable Logic

Architecture, Tools, and Applications



Edited by **Pierre-Emmanuel Gaillardon** The University of Utah, Salt Lake City, USA

Series: Devices, Circuits, and Systems

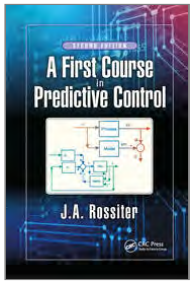
This book explores classical field programmable gate array (FPGA) architectures and their supporting tools; evaluates recent proposals related to FPGA architectures, including the use of network-on-chips (NoCs); examines reconfigurable processors that merge concepts borrowed from the reconfigurable domain into processor design; and exploits FPGAs for high-performance systems, efficient error correction codes, and high-bandwidth network routers with built-in security. The book also expounds on emerging technologies to improve FPGA routing structures and create non-volatile configuration flip-flops, providing valuable insight into the future potential of reconfigurable systems.

CRC Press
October 2015 : 554pp
Hb: 978-1-482-26218-6 : **£155**
eBook: 978-1-315-21502-0

* For full contents and more information, visit: www.routledge.com/9781482262186

2ND EDITION

A First Course in Predictive Control



J.A. Rossiter

The book presents a significant expansion in depth and breadth of the previous edition. It includes substantially more numerical illustrations and copious supporting MATLAB code that the reader can use to replicate illustrations or build his or her own. The code is deliberately written to be as simple as possible and easy to edit. The book is an excellent starting point for any researcher to gain a solid grounding in MPC concepts and algorithms before moving into application or more advanced research topics. Sample problems for readers are embedded throughout the chapters, and in-text questions are designed for readers to demonstrate an understanding of concepts through numerical simulation.

CRC Press

July 2022 : 428pp

Pb: 978-1-032-33916-0 : £45.99

Hb: 978-1-138-09934-0 : £120

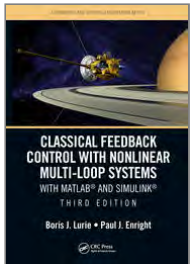
eBook: 978-1-315-10412-6

* For full contents and more information, visit: www.routledge.com/9781032339160

3RD EDITION

Classical Feedback Control with Nonlinear Multi-Loop Systems

With MATLAB® and Simulink®, Third Edition



Boris J. Lurie, Paul Enright

This book describes the design of high-performance feedback control systems, emphasizing the frequency-domain approach widely used in practical engineering. It presents design methods for high-order nonlinear single- and multi-loop controllers with efficient analog and digital implementations. Bode integrals are employed to estimate the available system performance and to determine the ideal frequency responses that maximize the disturbance rejection and feedback bandwidth. This book serves as a unique text for an advanced course in control system engineering, and as a valuable reference for practicing engineers competing in today's industrial environment.

CRC Press

December 2021 : 594pp

Pb: 978-1-032-24056-5 : £39.99

Hb: 978-1-138-54114-6 : £105

eBook: 978-1-351-01185-3

* For full contents and more information, visit: www.routledge.com/9781032240565

2ND EDITION

Design and Analysis of Control Systems

Driving the Fourth Industrial Revolution



Arthur G.O. Mutambara

Written to inspire and cultivate the ability to design and analyze feasible control algorithms for a wide range of engineering applications, this text covers the theoretical and practical principles involved in the design and analysis of control systems. Second edition introduces 4IR adoption strategies for traditional intelligent control including new techniques of implementing control systems. It provides improved coverage of characteristics of feedback control, Root-Locus analysis, frequency-response analysis including updated worked examples and problems. This book is aimed at Senior undergraduate and graduate students in control and systems, and electrical engineering.

CRC Press

March 2024 : 794pp

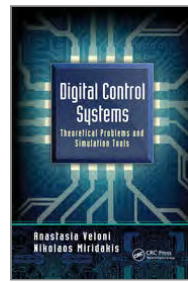
Hb: 978-1-032-71880-4 : £190

eBook: 978-1-032-71888-0

* For full contents and more information, visit: www.routledge.com/9781032718804

Digital Control Systems

Theoretical Problems and Simulation Tools



Anastasia Veloni, Nikolaos Miridakis

The objective of this book is to provide a collection of solved problems on control systems, with an emphasis on practical problems. System functionality is described, the modeling process is explained, the problem solution is introduced, and the derived results are discussed. Each chapter ends with a discussion on applying MATLAB®, LabVIEW, and/or Comprehensive Control to the previously introduced concepts. The aim of the book is to help an average reader understand the concepts of control systems through problems and applications. The solutions are based directly on math formulas given in extensive tables throughout the text.

CRC Press

March 2021 : 449pp

Pb: 978-0-367-77882-8 : £61.99

Hb: 978-1-138-03920-9 : £155

eBook: 978-1-315-16863-0

* For full contents and more information, visit: www.routledge.com/9780367778828

Mean-Field-Type Games for Engineers

Julian Barreiro-Gomez New York University, UAE,
Hamidou Tembine New York University, UAE.

This book comprises an appropriate background to work and do research on mean-field-type control and game theory. It starts with studying the deterministic optimal control and differential linear-quadratic games, and progressively moves to analyzing mean-field-type control and game problems incorporating several stochastic processes. For the mean-field-type game analysis, several numerical examples using a MatLab-based user-friendly toolbox are available for the readers. It includes applications in both continuous and discrete time, such as water distribution systems, micro-grid energy storage, stirred tank reactor, and COVID-19 propagation control.

CRC Press

May 2024 : 526pp

Pb: 978-0-367-56613-5 : £45.99

Hb: 978-0-367-56612-8 : £110

eBook: 978-1-032-12804-7 : £45.99

* For full contents and more information, visit: www.routledge.com/9780367566135

2ND EDITION

Optimal and Robust Control

Advanced Topics with MATLAB®

Luigi Fortuna University of Catania, Italy, Mattia Frasca
University of Catania, Italy, Arturo Buscarino University
of Catania, Italy.

This new edition deals with advanced automatic control techniques, paying particular attention to robustness-the ability to guarantee stability in the presence of uncertainty. It explains advanced techniques for handling uncertainty and optimizing the control loop, and details analytical strategies for obtaining reduced order models. It also includes numerous examples and MATLAB® exercises to help the reader efficiently acquire new skills. Written for electrical, electronic, computer science, space, and automation engineers interested in automatic control, this book can also be used for self-study of for a one-semester course in robust control.

CRC Press

January 2024 : 322pp

Pb: 978-1-032-05301-1 : £47.99

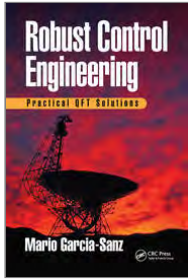
Hb: 978-1-032-05300-4 : £110

eBook: 978-1-032-15155-7 : £45.99

* For full contents and more information, visit: www.routledge.com/9781032053011

Robust Control Engineering

Practical QFT Solutions



Mario Garcia-Sanz

The book presents practical methodologies for engineers and researchers designing reliable control systems, bridging the gap between successfully-tested theory and real world control system implementation. The chapters showcase fifty successful real world cases studies, in which the author was involved, including: commercial wind turbines, wastewater treatment plants, power systems, satellites with flexible appendages, spacecraft flying in formation, large radio telescopes, and industrial manufacturing systems. Additionally, it utilizes the QFT Control Toolbox (QFTCT) for MATLAB, developed by the author, for problems and projects presented throughout each chapter.

CRC Press

June 2021 : 578pp

Pb: 978-1-032-09674-2 : **£49.99**

Hb: 978-1-138-03207-1 : **£135**

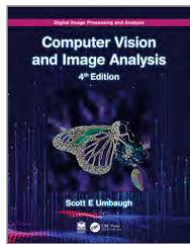
eBook: 978-1-315-39498-5

* For full contents and more information, visit: www.routledge.com/9781032096742

4TH EDITION

Digital Image Processing and Analysis

Computer Vision and Image Analysis



Scott E Umbaugh Southern Illinois University,
Edwardsville, USA

Computer vision and image analysis is a field that continues to advance at an ever increasing pace, with applications ranging from medical diagnostics to space exploration. The diversity of applications is one of the driving forces that make it such an exciting field to be involved in for the 21st century.

CRC Press

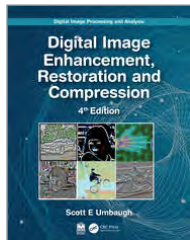
October 2024 : 440pp

Pb: 978-1-032-11708-9 : **£48.99**Hb: 978-1-032-07129-9 : **£105**eBook: 978-1-032-38445-0 : **£48.99*** For full contents and more information, visit: www.routledge.com/9781032117089

4TH EDITION

Digital Image Processing and Analysis

Digital Image Enhancement, Restoration and Compression



Scott E Umbaugh Southern Illinois University,
Edwardsville, USA

The book, Digital Image Enhancement, Restoration and Compression, focuses on human vision based imaging application development. The book can be used for self-study by those involved with application development, whether they are engineers, scientists, or artists. The new edition has been extensively updated and includes numerous problems and programming exercises that will help the reader and student to develop their skills.

CRC Press

March 2025 : 488pp

Pb: 978-1-032-11710-2 : **£48.99**Hb: 978-1-032-07130-5 : **£105**eBook: 978-1-032-38447-4 : **£105*** For full contents and more information, visit: www.routledge.com/9781032117102

4TH EDITION

Digital Image Processing and Analysis

Two Volume Set



Scott E Umbaugh Southern Illinois University,
Edwardsville, USA

The new edition will have separate volumes for computer vision and human-based vision applications. The first volume, Computer Vision and Image Analysis, will focus on the topics needed for computer vision systems development. It will feature more examples, more exercises and new algorithms. It will also include the new GUI for the CVIP Matlab Toolbox. The second volume, Image Enhancement, Restoration and Compression, will focus on the topics needed for human vision based systems development. It will feature more examples, more exercises and new algorithms. It will also include the new GUI for the CVIP Matlab Toolbox. .

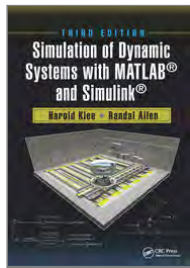
CRC Press

February 2025 : 966pp

Pb: 978-1-032-11706-5 : **£69.99**Hb: 978-1-032-07128-2 : **£165*** For full contents and more information, visit: www.routledge.com/9781032117065

3RD EDITION

Simulation of Dynamic Systems with MATLAB® and Simulink®

**Harold Klee , Randal Allen**

Continuous-system simulation is an increasingly important tool for optimizing the performance of real-world systems. The book presents an integrated treatment of continuous simulation with all the background and essential prerequisites in one setting. It features updated chapters and two new sections on Black Swan and the Stochastic Information Packet (SIP) and Stochastic Library Units with Relationships Preserved (SLURP) Standard. The new edition includes basic concepts, mathematical tools, and the common principles of various simulation models for different phenomena, as well as an abundance of case studies, real-world examples, homework problems, and equations to develop a practical un

CRC Press

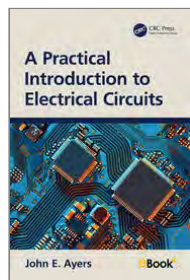
December 2021 : 852pp

Pb: 978-1-032-24195-1 : **£54.99**Hb: 978-1-498-78777-2 : **£135**

eBook: 978-1-315-15417-6

* For full contents and more information, visit: www.routledge.com/9781032241951

A Practical Introduction to Electrical Circuits



John E. Ayers

A Practical Introduction to Electrical Circuits represents a fresh approach to the subject which is compact and easy to use, yet offers a comprehensive description of the fundamentals, including Kirchhoff's laws, nodal and mesh analysis.

CRC Press
February 2024 : 440pp
Pb: 978-1-032-52816-8 : £49.99
Hb: 978-1-032-52815-1 : £170
eBook: 978-1-032-52817-5 : £45.99

* For full contents and more information, visit: www.routledge.com/9781032528168

Advanced Field-Effect Transistors

Theory and Applications



Edited by Dharmendra Singh Yadav National Institute of Technology Kurukshetra, INDIA, **Shiromani Balmukund Rahi** Assistant Professor University School of Information and Communication Technology Gautam Buddha University Greater Noida, Uttar Pradesh India, **Sureshni Tirkey** MAULANA AZAD NATIONAL INSTITUTE OF TECHNOLOGY BHOPAL INDIA

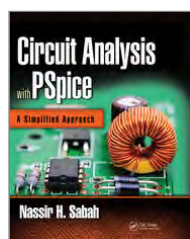
The book addresses the fundamental physics behind operation of various FETs, as well as challenges and solutions with the FETs for the device to circuit level design and simulation. It will provide an overview of new semiconductor devices and their applicability in electronic circuit design, which form the foundation of technological systems. It would be useful for scientists, researchers, and postgraduate students who are interested in learning about device physics, circuits, and systems. Readers are presumed to have a basic understanding of electronic circuits and devices. This book's purpose is to teach VLSI designers and students how to sensibly device to circuit processing.

CRC Press
December 2023 : 306pp
Hb: 978-1-032-49380-0 : £135
eBook: 978-1-003-39354-2

* For full contents and more information, visit: www.routledge.com/9781032493800

Circuit Analysis with PSpice

A Simplified Approach



Nassir H. Sabah

Intended as a textbook for the first two courses on electric circuits, the first six chapters of this book include techniques of circuit simplification and analysis applied to the dc state. Part II consists of a number of additional topics that can be selectively added in a second course. The first topic presented is operational amplifiers, followed by frequency responses of passive, filters, and then active filters, where operational amplifiers are used. Other topics included in Part II are the usual topics on responses to periodic inputs, complex power, responses to impulse and step functions, convolution, Laplace transform, Fourier transform, two-port circuits, and balanced three-phase

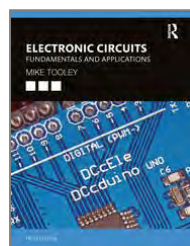
CRC Press
March 2021 : 838pp
Pb: 978-0-367-78216-0 : £45.99
Hb: 978-1-498-79604-0 : £105
eBook: 978-1-315-40222-2

* For full contents and more information, visit: www.routledge.com/9780367782160

5TH EDITION

Electronic Circuits

Fundamentals and Applications



Mike Tooley, Mike Tooley

This fifth edition provides all the information required to get to grips with the fundamentals of electronics, detailing the underpinning knowledge necessary to appreciate the operation of a wide range of electronic circuits. An additional chapter shows how a wide range of useful electronic applications can be developed in conjunction with the increasingly popular Arduino microcontroller, and a new section details batteries for use in electronic equipment and some additional/updated student assignments. The book's content is matched to the latest pre-degree level courses (from Level 2 up to, and including, Foundation Degree and HND).

Routledge
November 2019 : 522pp
Pb: 978-0-367-42198-4 : £39.99
Hb: 978-0-367-42199-1 : £120
eBook: 978-0-367-82265-1

* For full contents and more information, visit: www.routledge.com/9780367421984

Essentials of Nonlinear Circuit Dynamics with MATLAB® and Laboratory Experiments



Arturo Buscarino, Luigi Fortuna, Mattia Frasca

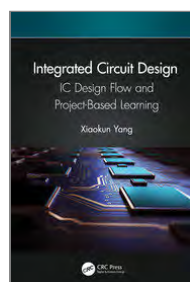
The book begins with simple nonlinear dynamics, like the logistic map, and ends with nonlinear networks, like Cellular Nonlinear Networks. After discussing various examples, by using the essential concepts of bifurcation analysis, a set of laboratory experiences are proposed. This approach helps to build simple circuits and to achieve complex networks. The aim is to give to the readers a complete view of the main concepts of nonlinear dynamics finalized in order to understand complex systems and their control by using electronics devices. Numerical examples and homework problems with solutions are also included to enforce the material discussed. Moreover, the readers will be able to imple

CRC Press
March 2021 : 299pp
Pb: 978-0-367-78222-1 : £45.99
Hb: 978-1-138-19813-5 : £86.99
eBook: 978-1-315-22630-9

* For full contents and more information, visit: www.routledge.com/9780367782221

Integrated Circuit Design

IC Design Flow and Project-Based Learning



Xiaokun Yang

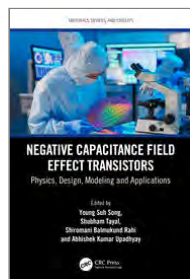
This textbook provides HDL-based examples, experiments, and projects able that cover real industry needs such as design/coding rules and methodologies. It will help readers build a connection between the HDL code and hardware circuits. This book can be used as a textbook for integrated circuit design and simulation courses. The audience includes senior undergraduate and graduate students, researchers, and entry-level design and verification engineers in the integrated circuit design industry.

CRC Press
November 2024 : 506pp
Hb: 978-1-032-03079-1 : £99.99
eBook: 978-1-003-18708-0

* For full contents and more information, visit: www.routledge.com/9781032030791

Negative Capacitance Field Effect Transistors

Physics, Design, Modeling and Applications



Edited by **Young Suh Song**, **Shubham Tayal** SR University, India, **Shiromani Balmukund Rahi** Assistant Professor University School of Information and Communication Technology Gautam Buddha University Greater Noida, Uttar Pradesh India, **Abhishek Kumar Upadhyay**

Series: Materials, Devices, and Circuits

This book aims to provide information in the ever-growing field of low-power electronic devices and their applications in portable device, wireless communication, sensor, and circuit domains. This book is designed to be one-stop guidebook for students and academic researchers to understand recent trends in the IT industry and semiconductor industry. It will also be of interest to researchers in the field of nanodevices like NC-FET, FinFET, Tunnel FET, and device-circuit codesign.

CRC Press

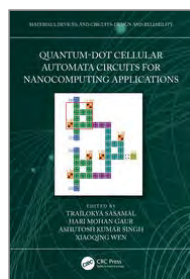
October 2023 : 148pp

Hb: 978-1-032-44531-1 : £100

eBook: 978-1-003-37339-1

* For full contents and more information, visit: www.routledge.com/9781032445311

Quantum-Dot Cellular Automata Circuits for Nanocomputing Applications



Edited by **Trailokya Sasamal**, **Hari Mohan Gaur** ABES Institute of Technology, UP, India, **Ashutosh Kumar Singh** National Institute of Technology, India, **Xiaoqing Wen** Kyushu Institute of Technology, Iizuka, Japan

Series: Materials, Devices, and Circuits

This book provides a composite solution for optimal logic designs for quantum-dot cellular automata based circuits. It includes the basics of new logic functions and novel digital circuit designs, quantum computing with QCA, new trends in quantum and quantum-inspired algorithms and applications, and algorithms to support QCA designers. The book is intended for students and researchers in electronics and computer disciplines who are interested in this rapidly changing field under the umbrella of courses such as emerging nanotechnologies and its architecture, low-power digital design.

CRC Press

July 2023 : 252pp

Hb: 978-1-032-42018-9 : £125

eBook: 978-1-003-36163-3

* For full contents and more information, visit: www.routledge.com/9781032420189

Semiconductor Memory Devices and Circuits



Shimeng Yu

This book covers semiconductor memory technologies from device bit-cell structures to memory array design with an emphasis on recent industry trends and cutting-edge technologies. The first part of the book discusses mainstream semiconductor memory technologies. The second part of the book discusses emerging memory candidates that may have the potential to change the memory hierarchy. The third part of the book surveys new applications of memory technologies beyond conventional applications. This book is intended for graduate students in electrical engineering programs and researchers or industry professionals in semiconductors and microelectronics.

CRC Press

April 2022 : 214pp

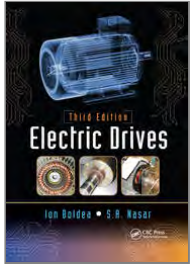
Hb: 978-0-367-68707-6 : £105

eBook: 978-1-003-13874-7

* For full contents and more information, visit: www.routledge.com/9780367687076

3RD EDITION

Electric Drives



Ion Boldea, Syed A. Nasar

The third edition of this bestselling textbook incorporates the latest technologies used to save energy and increase productivity, stability, and reliability. It includes new references to key research and development activities, adds nearly 120 new pages covering recent advances, and features two new chapters on advanced scalar control and multiphase electric machine drives. All solved numerical examples have been retained, and 10 MATLAB®–Simulink® programs remain online to ensure students gain a practical understanding of the subtleties involved in the operation of modern electric drives.

CRC Press

July 2022 : 672pp

Pb: 978-1-032-33995-5 : **£49.99**

Hb: 978-1-498-74820-9 : **£135**

eBook: 978-1-315-36857-3

* For full contents and more information, visit: www.routledge.com/9781032339955

2ND EDITION

Electric Machines

Two Volume Set



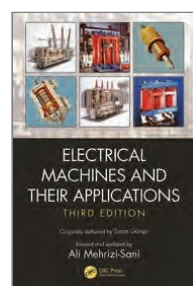
Ion Boldea University Politehnica Timisoara, Romania,
Lucian N. Tutelea Politehnica University of Timisoara, Romania

With its comprehensive coverage of the state of the art, this second edition of the book comprises two volumes, and introduces the basic types of transformers and electric machines and also discusses advanced subjects in electric machines, starting from principles, to applications and case studies with ample graphical results. The first book covers circuit modeling characteristics and performance characteristics under steady state. The second book covers topics such as modeling of transients and control principles. Both the volumes include numerical examples and case studies, and numerous computer simulation programs in MATLAB and Simulink® are also available online.

CRC Press
 December 2024 : 856pp
 Pb: 978-1-032-10575-8 : **£74.99**
 Hb: 978-0-367-37562-1 : **£210**

* For full contents and more information, visit: www.routledge.com/9781032105758

3RD EDITION

Electrical Machines and Their Applications

Turan Gonen California State University, Sacramento, USA,
Ali Mehriizi-Sani

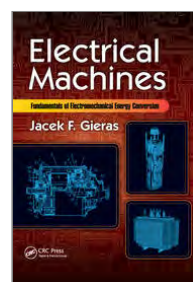
This popular, easy-to-read, book offers a comprehensive yet unique treatment of electric machines and their historical development. Electric Machines covers an in-depth analysis of machines augmented with ample examples, which makes it suitable both for those who are new to electric machines and for those who want to deepen their knowledge of electric machines.

CRC Press
 January 2024 : 432pp
 Hb: 978-0-367-65501-3 : **£94.99**
 IEpb: 978-1-032-88617-6 : **£48.99**
 eBook: 978-1-003-12974-5

* For full contents and more information, visit: www.routledge.com/9780367655013

Electrical Machines

Fundamentals of Electromechanical Energy Conversion



Jacek F. Gieras

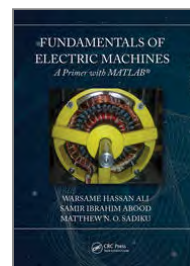
This textbook deals exhaustively with electrical machines and provides examples of their application to modern electromechanical drive systems. Some everyday examples of these applications can include: a cooling fan driven by electric motor (usually a single-phase induction motor), a washing machine drum driven by a PM brushless motor or SRM, an electric screwdriver driven by an AC brush motor, a wind turbine with induction or PM brushless generator, etc. Most of the material in this book has been classroom-tested, with very successful results. Each chapter contains a minimum 10 numerical examples to help enforce new information, while exploring technical problems and their possible solution.

CRC Press
 December 2020 : 452pp
 Pb: 978-0-367-73694-1 : **£53.99**
 Hb: 978-1-498-70883-8 : **£110**
 eBook: 978-1-315-37142-9

* For full contents and more information, visit: www.routledge.com/9780367736941

Fundamentals of Electric Machines: A Primer with MATLAB

A Primer with MATLAB



Warsame Hassan Ali, **Matthew N. O. Sadiku**, **Samir Abood**

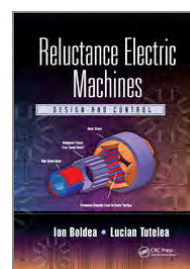
An electric machine is a device that converts mechanical energy into electrical energy or vice versa. It can take the form of an electric generator, electric motor, or transformer. Electric generators produce virtually all electric power we use all over the world. Electric machine blends the three major areas of electrical engineering: power, control and power electronics. This book presents the relation of power quantities for the machine as the current, voltage, power flow, power losses, and efficiency. This book will provide a good understanding of the behavior and its drive, beginning with the study of salient features of electrical dc and ac machines.

CRC Press
 December 2021 : 410pp
 Pb: 978-1-032-24286-6 : **£39.99**
 Hb: 978-0-367-25098-0 : **£71.99**
 eBook: 978-0-429-29061-9

* For full contents and more information, visit: www.routledge.com/9781032242866

Reluctance Electric Machines

Design and Control



Ion Boldea, **Lucian Tutelea**

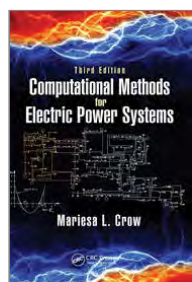
Electric energy is arguably a key agent for our material prosperity. With the notable exception of photovoltaic generators, electric generators are exclusively used to produce electric energy from mechanical energy. More than 60% of all electric energy is used in electric motors for useful mechanical work in various industries. The book presents the modeling, performance, design, and control of reluctance synchronous and flux-modulation machines developed for higher efficiency and lower cost. It covers one- and three-phase reluctance synchronous motors in line-start applications and various reluctance flux-modulation motors in pulse width modulation converter-fed variable speed drives.

CRC Press
 December 2020 : 432pp
 Pb: 978-0-367-73393-3 : **£58.99**
 Hb: 978-1-498-78233-3 : **£155**
 eBook: 978-0-429-45831-6

* For full contents and more information, visit: www.routledge.com/9780367733933

3RD EDITION

Computational Methods for Electric Power Systems



Mariesa L. Crow

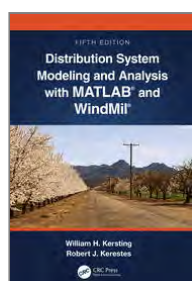
This book introduces computational methods that form the basis of many analytical studies in power systems. It provides the background for algorithms that underlie several commercial software packages, linking concepts to power system applications. The third edition contains new material on preconditioners for linear iterative methods, Broyden's method, and Jacobian-free Newton–Krylov methods. It includes additional problems and examples, as well as updated examples on sparse LU factorization. It also adds coverage of the eigensystem realization algorithm and the double-shift method for computing complex eigenvalues.

CRC Press
June 2021 : 346pp
Pb: 978-1-032-09822-7 : **£54.99**
Hb: 978-1-498-71159-3 : **£135**
eBook: 978-0-429-17261-8

* For full contents and more information, visit: www.routledge.com/9781032098227

5TH EDITION

Distribution System Modeling and Analysis with MATLAB® and WindMil®



William H. Kersting Milsoft Utility Solutions, USA,
Robert Kerestes University of Pittsburgh, USA.

The fifth edition includes new sections on electric vehicle loads and the impact they have on voltage drop and transformers in distribution systems. A new and improved tape-shield cable model has been developed to produce more accurate impedance modeling of underground cables. In addition, MATLAB scripts have been developed for all the examples in the text, in addition to new MATLAB based problems at the end of the chapters. The book also covers approximation methods to help users interpret computer program results and includes reference and assignments that help users apply MATLAB and WindMil programs to put their new learning into practice.

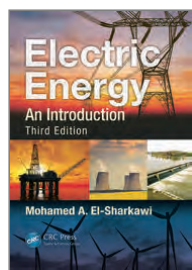
CRC Press
August 2022 : 496pp
Hb: 978-1-032-19836-1 : **£135**
eBook: 978-1-003-26109-4

* For full contents and more information, visit: www.routledge.com/9781032198361

3RD EDITION

Electric Energy

An Introduction, Third Edition



Mohamed A. El-Sharkawi University of Washington, Seattle, USA

Series: Power Electronics and Applications Series

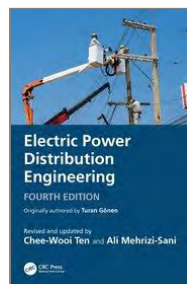
Along with the standard topics of power electronics and electromechanical conversion, this third edition of a bestseller covers energy resources, power plants, environmental impacts of power generation, power system operation, renewable energy, and electrical safety. Focusing on issues encountered in everyday practice, the author includes examples based on real systems and data. Now in color, the text offers new and expanded coverage on the failure modes of nuclear power plants, interface and integration issues, stray voltage and impulse shocks, the circuits in wind and solar systems, smart grid technology, and more.

CRC Press
November 2012 : 606pp
Hb: 978-1-466-50303-8 : **£145**
eBook: 978-0-429-09670-9

* For full contents and more information, visit: www.routledge.com/9781466503038

4TH EDITION

Electric Power Distribution Engineering



Turan Gönen, **Chee-Wooi Ten**, **Ali Mehrizi-Sani**

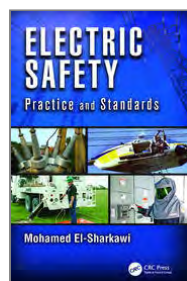
Are you fascinated by the complex web of electrical power that illuminates our modern world? Do you want to understand the intricate systems responsible for delivering electricity to our homes, businesses, and industries? Look no further than "Electric Power Distribution System Engineering" by renowned author Turan Gonen.

CRC Press
March 2024 : 480pp
Hb: 978-0-367-65495-5 : **£135**
IEPB: 978-1-032-88626-8 : **£49.99**
eBook: 978-1-032-43935-8 : **£125**

* For full contents and more information, visit: www.routledge.com/9780367654955

Electric Safety

Practice and Standards



Mohamed A. El-Sharkawi University of Washington, Seattle, USA

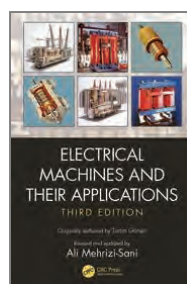
Most power engineers are not familiar with the electric safety practices governing site works or grounding practices of dwellings, hospitals, and factories. This book provides the knowledge and analysis they need to be versed on electric safety and, therefore, effectively transfer the skills to their field workers. It includes several case studies from real events and examples showing that variations in implementing electric safety procedures can create sites with various safety levels. As electric safety codes are similar everywhere, this practical book can be used worldwide.

CRC Press
March 2017 : 464pp
Pb: 978-1-138-07399-9 : **£62**
Hb: 978-1-466-57149-5 : **£155**
eBook: 978-0-429-10188-5

* For full contents and more information, visit: www.routledge.com/9781138073999

3RD EDITION

Electrical Machines and Their Applications



Turan Gonen California State University, Sacramento, USA, **Ali Mehrizi-Sani**

This popular, easy-to-read, book offers a comprehensive yet unique treatment of electric machines and their historical development. Electric Machines covers an in-depth analysis of machines augmented with ample examples, which makes it suitable both for those who are new to electric machines and for those who want to deepen their knowledge of electric machines.

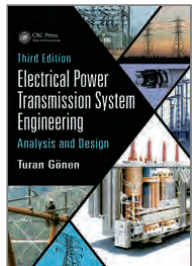
CRC Press
January 2024 : 432pp
Hb: 978-0-367-65501-3 : **£94.99**
IEPB: 978-1-032-88617-6 : **£48.99**
eBook: 978-1-003-12974-5

* For full contents and more information, visit: www.routledge.com/9780367655013

3RD EDITION

Electrical Power Transmission System Engineering

Analysis and Design, Third Edition

**Turan Gönen**

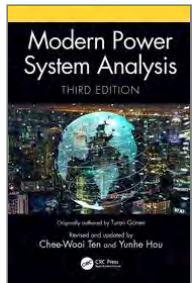
A hands-on electrical and mechanical design text for engineering students and professionals, this Third Edition features additional examples of fault analysis, a detailed discussion of flexible AC systems, and expanded coverage of the structures, equipment, and environmental impact of transmission lines. Also included is a review of the methods for allocating transmission line fixed charges among joint users, new trends and regulations in transmission line construction, a guide to the FERC electric transmission facilities permit process and Order No. 1000, and a glossary of terms.

CRC Press
May 2014 : 1094pp
Hb: 978-1-482-23222-6 : **£91**
eBook: 978-0-429-18345-4

* For full contents and more information, visit: www.routledge.com/9781482232226

3RD EDITION

Modern Power System Analysis

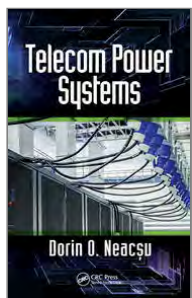
**Chee-Wooi Ten, Yunhe Hou**

Step into the captivating world of power systems with "Modern Power System Analysis" by acclaimed author Turan Gönen. This illuminating book offers a comprehensive examination of power system analysis. Whether you're a curious non-specialist, a voracious reader seeking knowledge, or a librarian or bookseller searching for a valuable resource, Gönen's masterpiece is sure to captivate you. This book is an excellent source to begin your journey.

CRC Press
March 2024 : 427pp
Hb: 978-0-367-65506-8 : **£135**
IEPB: 978-1-032-88629-9 : **£49.99**
eBook: 978-1-032-71570-4 : **£125**

* For full contents and more information, visit: www.routledge.com/9780367655068

Telecom Power Systems

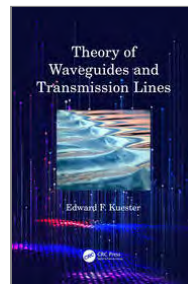
**Dorin O. Neacșu**

This book addresses topics specific to the application of power electronics to telecom systems. It follows the power flow from national grid down to the last low-voltage high current requirement of a processor. Auxiliary equipment requirements, such as uninterruptible power supplies, storage energy systems, or charging systems, are explained, along with peculiar classification or suggestions for usage. The presentation of each telecom power system is completed with a large number of practical examples to reinforce new material.

CRC Press
September 2020 : 436pp
Pb: 978-0-367-65641-6 : **£49.99**
Hb: 978-1-138-09930-2 : **£135**
eBook: 978-1-315-10414-0

* For full contents and more information, visit: www.routledge.com/9780367656416

Theory of Waveguides and Transmission Lines

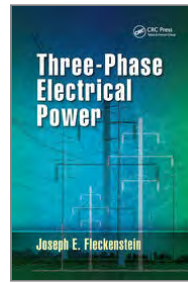
**Edward F. Kuester** University of Colorado Boulder, USA

This book provides the principles of operation of electromagnetic waveguides and transmission lines. The approach is divided between mathematical descriptions of basic behaviors and treatment of specific types of waveguide structures. Classic transmission lines, their basic properties, their connection to lumped-element networks, and the distortion of pulses are discussed followed by a full field analysis of waveguide modes. Modes of specific kinds of waveguides - traditional hollow metallic waveguides, dielectric (including optical) waveguides, etc. are discussed. Problems of excitation and scattering of waveguide modes are addressed followed by real systems and performance.

CRC Press
September 2023 : 610pp
Pb: 978-0-367-54044-9 : **£49.99**
Hb: 978-1-498-73087-7 : **£115**
eBook: 978-1-315-37004-0

* For full contents and more information, visit: www.routledge.com/9780367540449

Three-Phase Electrical Power

**Joseph E. Fleckenstein**

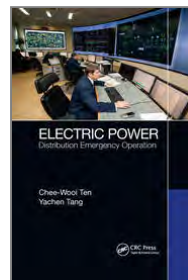
This book addresses all aspects applicable to three-phase circuits, including ac circuits, generation, transmission, distribution, grounding, currents, power, demand, metering, circuit protection, motors, motor protection, power factor correction, tariffs, electrical drawings, and relays. It also covers all possible types of three-phase circuits for all possible applications: balanced, unbalanced, leading, lagging, three-wire, and four-wire. Using simple terms and straightforward language to explain key concepts and their underlying theory, this contemporary educational guide employs phasors throughout the text and features numerous examples, illustrations, photographs, and end-of-chapter

CRC Press
September 2020 : 436pp
Pb: 978-0-367-65596-9 : **£54.99**
Hb: 978-1-498-73777-7 : **£145**
eBook: 978-1-315-21414-6

* For full contents and more information, visit: www.routledge.com/9780367655969

Electric Power

Distribution Emergency Operation

**Chee-Wooi Ten, Yachen Tang**

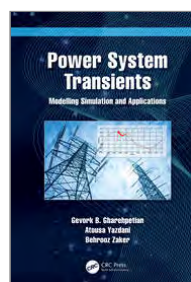
Provides the fundamentals of distribution emergency operation using graph-theoretic approach and exploration of subsystem(s) that address the operational aspects of fault occurrence to determine the possible feeder reconfiguration. Topics include: (1) Data extraction from geographic information systems (GIS), (2) Graph modeling of distribution feeders, (3) Programming for backward/forward sweeping unbalanced power flow, (4) Short circuit analysis and fault localization, (5) Fault isolation and service restoration, (6) Outage management and crew coordination, (7) Trouble call tickets and escalation to search for fault, and (8) Emerging topics of distribution management systems (DMS).

CRC Press
June 2022 : 268pp
Pb: 978-1-032-33888-0 : **£49.99**
Hb: 978-1-498-79894-5 : **£135**
eBook: 978-0-429-44083-0

* For full contents and more information, visit: www.routledge.com/9781032338880

Power System Transients

Modelling Simulation and Applications



Gevork Ghahreghpetian , Atousa Yazdani , Behrooz Zaker

In this textbook, variety of transient cases occurred or possible to occur in power systems are discussed and analyzed. It starts by categorizing transients' phenomena and specifying unfavorable situations in power systems raised by transients. The book provides a comprehensive resource to mainly educate graduate students in the area of power system transients. It also serves as a reference for industry engineers challenged by transient problems in the system.

CRC Press

October 2024 : 248pp

Pb: 978-1-032-18559-0 : **£45.99**

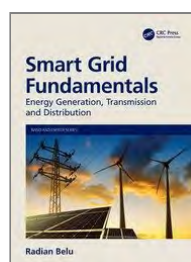
Hb: 978-1-032-18558-3 : **£76.99**

eBook: 978-1-003-25513-0

* For full contents and more information, visit: www.routledge.com/9781032185590

Smart Grid Fundamentals

Energy Generation, Transmission and Distribution



Radian Belu Southern University and A&M College, USA.

Series: Nano and Energy

The book provides a comprehensive overview of smart grids, their role in the development of electricity systems, as well as issues and problems related to smart grid evolution, operation, management, control, protection, entities, and components. The book can be used as an introductory and basic textbook, reference and training resource by engineers, students, faculty, and interested readers to gain the essential knowledge of the power and energy systems, smart grid fundamentals, concepts and features, as well as the main energy technologies, including how they work and operate, characteristics, and they are evaluated and selected for specific applications..

CRC Press

May 2024 : 486pp

Pb: 978-1-032-19194-2 : **£48.99**

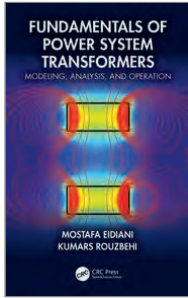
Hb: 978-1-482-25667-3 : **£135**

eBook: 978-0-429-17480-3

* For full contents and more information, visit: www.routledge.com/9781032191942

Fundamentals of Power System Transformers

Modeling, Analysis, and Operation



Mostafa Eidiani , Kumars Rouzbehi

Fundamentals of Power System Transformers acts as a stepping stone towards a deeper comprehension of electric machines and transformers, resembling the content covered in a graduate-level course. This book is aimed at graduate students in electrical engineering as well as researchers and industry professionals interested in signal processing, radars, aviation radar systems, and radio-controlled systems. The book will also be of interest to pilots, flight engineers, military command personnel, and military contractors.

CRC Press

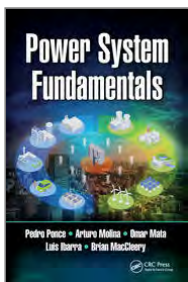
January 2025 : 127pp

Hb: 978-1-032-88175-1 : **£91.99**

eBook: 978-1-003-53756-4

* For full contents and more information, visit: www.routledge.com/9781032881751

Power System Fundamentals



Pedro Ponce , Arturo Molina , Omar Mata , Luis Ibarra , Brian MacCleery

This book covers the fundamentals of power systems, which are the pillars for smart grids, with a focus on defining the smart grid with theoretical and experimental electrical concepts. It begins by discussing electric circuits, which are the basic systems in smart grids, and finishes with a complete smart grid concept. The book allows the reader to build a foundation of understanding with basic and advanced exercises that run on simulation before moving to experimental results. It is intended for readers who want to comprehensively cover both the basic and advanced concepts of smart grids.

CRC Press

December 2021 : 446pp

Pb: 978-1-032-24187-6 : **£54.99**

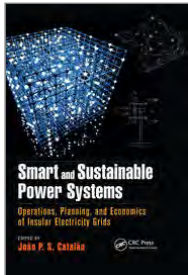
Hb: 978-1-138-55443-6 : **£135**

eBook: 978-1-315-14899-1

* For full contents and more information, visit: www.routledge.com/9781032241876

Smart and Sustainable Power Systems

Operations, Planning, and Economics of Insular Electricity Grids



Edited by **João P. S. Catalão**

This book discusses the modeling, simulation, and optimization of insular power systems to address the large-scale integration of renewables and demand-side management. It describes uncertainty, variability, reserves, and demand response. It examines forecasting techniques, power flow calculations, and scheduling models, including testing and validation using real-world data. The text also covers probabilistic and stochastic approaches, scenario generation, short-term operation, electric price signals, competitive operation of distribution networks, and network expansion planning, making it a valuable resource for the development of a sustainable and smart grid.

CRC Press

December 2020 : 452pp

Pb: 978-0-367-73815-0 : **£49.99**

Hb: 978-1-498-71212-5 : **£155**

eBook: 978-1-315-21427-6

* For full contents and more information, visit: www.routledge.com/9780367738150

Real-Time Systems Development with RTEMS and Multicore Processors



Gedare Bloom Howard University, Washington, D.C., USA
, Joel Sherrill OAR Corporation, Huntsville, AL, USA,
Tingting Hu University of Luxembourg, Luxembourg,
Ivan Cibrario Bertolotti

Series: Embedded Systems

This book focuses on enabling real-time embedded software engineering while providing theoretical foundations and hardware background to understand the rationale for key decisions in RTOS and application design and implementation. Some topics covered in this book are - Cross-compilation for embedded systems development; Concurrent programming models used in real-time embedded software; Usage and comparison of two application programmer interfaces (APIs): POSIX and the RTEMS Classic APIs, etc. The authors of this book are experts in the academic field of real-time embedded systems, with two of them primary open-source maintainers of the RTEMS software project.

CRC Press

May 2022 : 534pp

Pb: 978-0-367-64436-9 : **£61.99**

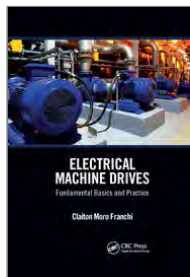
Hb: 978-0-815-36597-6 : **£155**

eBook: 978-1-351-25579-0

* For full contents and more information, visit: www.routledge.com/9780367644369

Electrical Machine Drives

Fundamental Basics and Practice



Claiton Moro Franchi

This work was developed based on the author's experience of more than 10 years working in research and industry in the areas of electrical drives and industrial automation. Seeking the connection between theory and its applications, the author presents a detailed conceptual description with lots of figures and illustrative examples that harmonize the theoretical approach with the practice. Composed of eleven chapters and three appendices, the book describes in a dynamic and didactic way the fundamental concepts related to the drives of electric machines. At the end of each chapter is a set of exercises to ease the fixation of the presented content.

CRC Press

June 2022 : 404pp

Pb: 978-1-032-33862-0 : **£49.99**

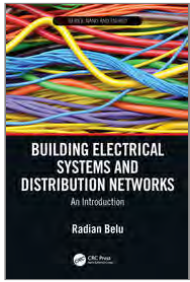
Hb: 978-1-138-09939-5 : **£135**

eBook: 978-1-315-10398-3

* For full contents and more information, visit: www.routledge.com/9781032338620

Building Electrical Systems and Distribution Networks

An Introduction



Radian Belu Southern University and A&M College, USA.

Series: Nano and Energy

This book covers all important, new and conventional aspects of building electrical systems, power distribution, lighting, transformers and rotating electric machines, wiring and building installations. Solved examples, end of chapter questions and problems, case studies, and design considerations are included in each chapter, highlighting concepts, diverse and critical features of building and industrial electrical systems. Support materials are included for interested instructors.

CRC Press

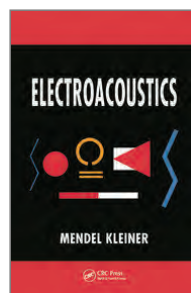
March 2020 : 606pp

Hb: 978-1-482-26351-0 : £115

eBook: 978-0-429-17345-5

* For full contents and more information, visit: www.routledge.com/9781482263510

Electroacoustics



Mendel Kleiner Chalmers University of Technology,
Gothenburg, Sweden

A key part of the modern communication society, electroacoustic devices such as microphones and loudspeakers are used everywhere from cars and mobile phones to homes and sports arenas. This modern, accessible text explains the key scientific and engineering principles behind their design. It also examines the compromises that are necessary when designing transducers for use in the real world. The book covers both traditional audio and ultrasonic transducers and includes up-to-date material on arrays, radiation impedance, loudspeaker enclosure design, and more.

CRC Press

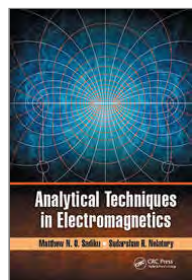
February 2013 : 628pp

Hb: 978-1-439-83618-7 : **£135**

eBook: 978-0-429-07351-9

* For full contents and more information, visit: www.routledge.com/9781439836187

Analytical Techniques in Electromagnetics



Matthew N. O. Sadiku Prairie View A&M University, Texas, USA, **Sudarshan R. Nelatury** Penn State Erie, The Behrend College, USA

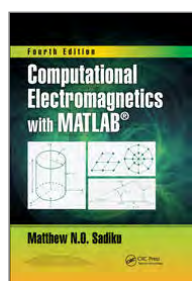
This book offers a balanced view of techniques for solving electromagnetic problems, refusing to overemphasize the importance of analytical methods at the expense of numerical techniques. Carefully selected topics provide an appreciation of the kinds of electromagnetic problems that can be solved exactly. Beginning with a review of basic electromagnetics, the text covers separation of variables, series expansion, conformal transformation, and perturbation methods, as well as Fourier sine and cosine, two-sided Fourier, Laplace, Hankel, and Mellin transform techniques. Simple examples, worked-out problems, and end-of-chapter exercises demonstrate various applications.

CRC Press
November 2015 : 266pp
Hb: 978-1-498-70901-9 : **£120**
eBook: 978-0-429-15717-2

* For full contents and more information, visit: www.routledge.com/9781498709019

4TH EDITION

Computational Electromagnetics with MATLAB, Fourth Edition



Matthew N.O. Sadiku

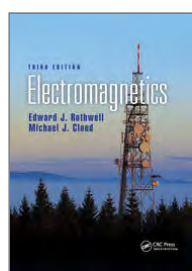
This fourth edition of the text reflects the continuing increase in awareness and use of computational electromagnetics and incorporates advances and refinements made in recent years. Most notable among these are the improvements made to the standard algorithm for the finite-difference time-domain (FDTD) method and treatment of absorbing boundary conditions in FDTD, finite element, and transmission-line-matrix methods. It teaches the readers how to pose, numerically analyze, and solve EM problems, to give them the ability to expand their problem-solving skills using a variety of methods, and to prepare them for research in electromagnetism.

CRC Press
June 2022 : 708pp
Pb: 978-1-032-33903-0 : **£61.99**
Hb: 978-1-138-55815-1 : **£145**
eBook: 978-1-315-15125-0

* For full contents and more information, visit: www.routledge.com/9781032339030

3RD EDITION

Electromagnetics



Edward J. Rothwell , Michael J. Cloud

Providing an ideal transition from introductory to advanced concepts, this book builds a foundation that allows electrical engineers to confidently proceed with the development of advanced EM studies, research, and applications. New topics include quasistatics, vector spherical wave functions, and wave matrices. Several application-oriented sections covering guided waves and transmission lines, particle dynamics, shielding, electromagnetic material characterization, and antennas have also been added. Mathematical appendices present helpful background information in the areas of Fourier transforms, dyadics, and boundary value problems.

CRC Press
July 2022 : 1008pp
Pb: 978-1-032-33917-7 : **£49.99**
Hb: 978-1-498-79656-9 : **£135**

* For full contents and more information, visit: www.routledge.com/9781032339177

2ND EDITION

Introduction to Electromagnetism

From Coulomb to Maxwell



Martin J N Sibley University of Huddersfield, West Yorkshire, United Kingdom

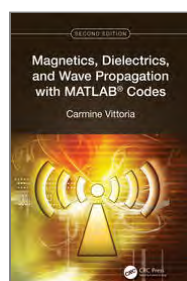
This edition aims to expand the on the first edition and take the reader through to the wave equation on coaxial cable and free-space by using Maxwell's equations. The new chapters will include time varying signals and fundamentals of Maxwell's equation. This book is intended for first and second year electrical and electronics undergraduates, and can also be used for undergraduates in mechanical engineering, computing and physics. The book will include examples and homework problems.

CRC Press
September 2023 : 246pp
Pb: 978-0-367-71187-0 : **£49.99**
Hb: 978-0-367-46056-3 : **£110**
eBook: 978-0-367-46270-3

* For full contents and more information, visit: www.routledge.com/9780367711870

2ND EDITION

Magnetics, Dielectrics, and Wave Propagation with MATLAB® Codes



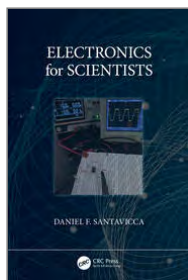
Carmine Vittoria Northeastern University, Boston, Massachusetts, USA

Because future microwave, wireless communication systems, computer chip designs and sensor systems, it will require miniature fabrication processes in the order of nano meters or less as well as the marriage of various material technologies to produce composites consisting of many different materials.

CRC Press
November 2023 : 492pp
Hb: 978-1-032-55568-3 : **£92.99**
eBook: 978-1-003-43124-4

* For full contents and more information, visit: www.routledge.com/9781032555683

Electronics for Scientists



Daniel Santavicca

Electronics for Scientists provides a practical and concise introduction to electrical circuits, signals, and instrumentation for undergraduate students in the physical sciences. The subject of electronics is indispensable to a wide array of scientific and technical fields, and this book seeks to provide an approachable point of access to this rich and important subject.

CRC Press

September 2023 : 165pp

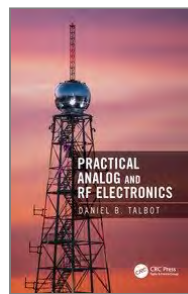
Pb: 978-1-032-52813-7 : **£33.99**

Hb: 978-1-032-52812-0 : **£92.99**

eBook: 978-1-003-40849-9

* For full contents and more information, visit: www.routledge.com/9781032528137

Practical Analog and RF Electronics



Daniel B. Talbot

This is a book about real-world techniques in designing analog circuits: amplifiers, filters, injection-locked oscillators, phase-locked loops, and spectrum regrowth in digital RF transmitters, etc. The book offers practical solutions to analog and RF problems, helping the reader to achieve high performance circuit and system design. This book will be useful to both students and practitioners. Teachers will find the book an important supplement to a standard analog and RF course, or it may stand alone as a textbook. Practitioners may find it useful by bookmarking some of the step-by-step procedures, e.g. the section on simplified impedance matching or group delay flattening.

CRC Press

April 2022 : 226pp

Pb: 978-0-367-54294-8 : **£49.99**

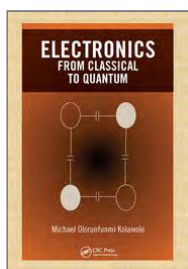
Hb: 978-0-367-54291-7 : **£125**

eBook: 978-1-003-08854-7

* For full contents and more information, visit: www.routledge.com/9780367542948

Electronics

from Classical to Quantum



Michael Olorunfunmi Kolawole Jolade Consulting Company, Australia.

This book discusses formulation and classification of integrated circuits, develops hierarchical structure of functional logic blocks to build more complex digital logic circuits, outlines the structure of transistors, their processing techniques, their arrangement forming logic gates and digital circuits, optimal pass transistor stages of buffered chain, and performance of designed circuits under noisy conditions. It also outlines the principles of quantum electronics leading to the development of lasers, masers, reversible quantum gates and circuits and applications of quantum cells.

CRC Press

May 2022 : 342pp

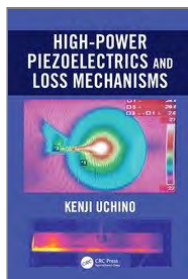
Pb: 978-0-367-51385-6 : **£49.99**

Hb: 978-0-367-51222-4 : **£115**

eBook: 978-1-003-05291-3

* For full contents and more information, visit: www.routledge.com/9780367513856

High-Power Piezoelectrics and Loss Mechanisms



Kenji Uchino Pennsylvania State University, USA.

This textbook introduces the theoretical background of piezoelectrics, electromechanical phenomenology, loss mechanisms, practical materials, device designs, drive and characterization techniques, typical applications, and looks forward to the future perspectives in this field. This text is designed for self-learning by the reader by himself/herself aided by the availability of: Chapter Essentials – Summary for your quick memory recovery; Check Points – Answers are provided in the book Appendix; Example Problems – To enhance the reader's understanding with full detailed solutions; Chapter Problems – For the final exam, or further consideration.

CRC Press

August 2024 : 380pp

Pb: 978-0-367-54072-2 : **£45.99**

Hb: 978-0-367-54069-2 : **£76.99**

eBook: 978-1-003-08751-9

* For full contents and more information, visit: www.routledge.com/9780367540722

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.

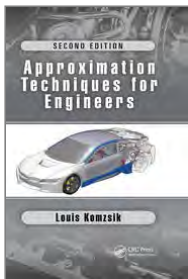
CRC Press
March 2025 : 323pp
Pb: 978-1-032-44294-5 : **£53.99**
Hb: 978-1-032-44295-2 : **£120**

* For full contents and more information, visit: www.routledge.com/9781032442945

2ND EDITION

Approximation Techniques for Engineers

Second Edition



Louis Komzsis

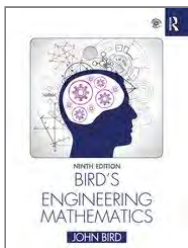
This book's specific goal is to provide a working knowledge of the various approximation techniques for engineering practice. Therefore, many sections are illuminated by either a computational example or an algorithm to enhance understanding and provide a template for the reader's own application of the technique. The more advanced techniques are also illustrated by some of their industrial applications. The additions of the second edition, the eleven new sections and the two new chapters, significantly enlarge the engineering audience in reflection to the expansion of applications in the past decade since the original publication.

CRC Press
September 2020 : 386pp
Pb: 978-0-367-65807-6 : **£45.99**
Hb: 978-1-138-70005-5 : **£110**
eBook: 978-0-429-22539-0

* For full contents and more information, visit: www.routledge.com/9780367658076

9TH EDITION

Bird's Engineering Mathematics



John Bird Defence College of Technical Training, UK

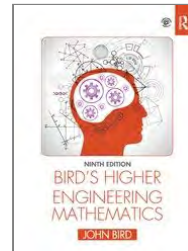
Engineering Mathematics has helped thousands of students to succeed in their exams, using worked examples and interactive problems. Mathematics is explained in a straightforward manner, supported by over 550 practical engineering examples and applications which relate theory to practice. This is a great text for a range of Level 2 and 3 engineering courses, and for A level revision. Its companion website provides resources for both students and lecturers, including lists of essential formulae and multiple-choice tests and full solutions for all 1900 further questions; and illustrations and answers to revision tests for adopting course instructors.

Routledge
March 2021 : 758pp
Pb: 978-0-367-64378-2 : **£45.99**
Hb: 978-0-367-64379-9 : **£110**
eBook: 978-1-003-12423-8

* For full contents and more information, visit: www.routledge.com/9780367643782

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.

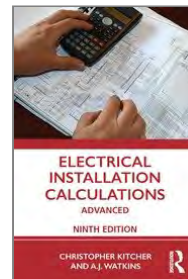
Routledge
March 2021 : 934pp
Pb: 978-0-367-64373-7 : **£47.99**
Hb: 978-0-367-64375-1 : **£110**
eBook: 978-1-003-12422-1

* For full contents and more information, visit: www.routledge.com/9780367643737

9TH EDITION

Electrical Installation Calculations

Advanced



Christopher Kitcher College Lecturer, UK

This new edition has been updated to be in line with the 18th Edition IEE Wiring Regulations (BS 7671:2018). It includes ring final circuit calculations, test procedures and interpretation of results, testing of 3 phase motors, polarisation testing calculations, risk level calculations for surge protection, and updated PV calculations. It meets the requirements of Level 3 electrical installation courses, and includes calculations used by professional electrical installation engineers and students involved in higher levels of study. Also included are a glossary section, worked examples and exercises, and a question-and-answer section.

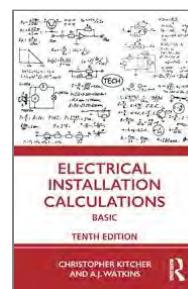
Routledge
June 2022 : 240pp
Pb: 978-1-032-19332-8 : **£32.99**
Hb: 978-1-032-19333-5 : **£84.99**
eBook: 978-1-003-25872-8

* For full contents and more information, visit: www.routledge.com/9781032193328

10TH EDITION

Electrical Installation Calculations

Basic



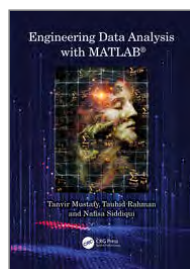
Christopher Kitcher College Lecturer, UK

This is in line with the 18th Edition IEE Wiring Regulations (BS 7671:2018). It now includes a worked example of resistivity and an update and development of the material on disconnection times for fuses and circuit breakers. It meets the requirements of current foundation level electrical installation courses, and includes essential calculations outside specific syllabuses which are invaluable for professional electrical installation engineers based in industry and students progressing to higher levels of study. It includes a glossary section, worked examples and exercises throughout, and a complete question and answer section.

Routledge
June 2022 : 218pp
Pb: 978-1-032-19340-3 : **£32.99**
Hb: 978-1-032-19341-0 : **£84.99**
eBook: 978-1-003-25873-5

* For full contents and more information, visit: www.routledge.com/9781032193403

Engineering Data Analysis with MATLAB®



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

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

CRC Press

December 2024 : 902pp

Pb: 978-1-032-50771-2 : **£71.99**

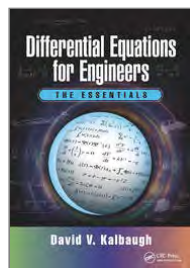
Hb: 978-1-032-50658-6 : **£145**

eBook: 978-1-003-39958-2

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

Differential Equations for Engineers

The Essentials



David V. Kalbaugh

The aim of this book is to survey the broad landscape of differential equations, including elements of partial differential equations (PDEs), and concisely present the topics of most use to engineers. It includes practical applications drawn from electrical, mechanical, and aerospace engineering and strongly addresses numerical integration. With the use of step-by-step explanations, a review of necessary foundations, and sets of solved problems, the material provides concrete clarification to concepts students sometimes find abstract (e.g., eigenvalues and eigenvectors).

CRC Press

December 2021 : 452pp

Pb: 978-1-032-24139-5 : **£49.99**

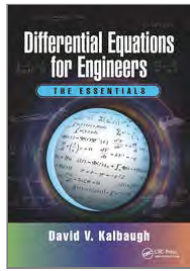
Hb: 978-1-498-79881-5 : **£135**

eBook: 978-1-315-15496-1

* For full contents and more information, visit: www.routledge.com/9781032241395

Differential Equations for Engineers

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CRC Press

December 2021 : 452pp

Pb: 978-1-032-24139-5 : **£49.99**

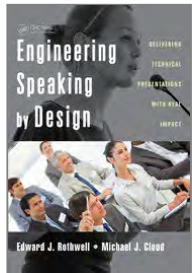
Hb: 978-1-498-79881-5 : **£135**

eBook: 978-1-315-15496-1

* For full contents and more information, visit: www.routledge.com/9781032241395

Engineering Speaking by Design

Delivering Technical Presentations with Real Impact



Edward J. Rothwell Michigan State University, East Lansing, USA, **Michael J. Cloud** Lawrence Technological University, Southfield, Michigan, USA

This unique book is conceptually organized around the engineering design process. It demonstrates how to apply this process to formal oral technical presentations. Providing clear and concise instruction supported by illustrative examples, the text explains how to avoid logical fallacies (both formal and informal), use physical reasoning to catch mistakes in claims, master the essentials of presentation style, conquer the elements of mathematical exposition, and forge a connection with the audience. Each chapter ends with a convenient checklist, bulleted summary, and set of exercises.

CRC Press

July 2015 : 164pp

Pb: 978-1-498-70577-6 : **£47.99**

Hb: 978-1-138-42206-3 : **£185**

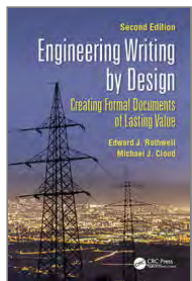
eBook: 978-1-315-21432-0

* For full contents and more information, visit: www.routledge.com/9781498705776

2ND EDITION

Engineering Writing by Design

Creating Formal Documents of Lasting Value, Second Edition



Edward J. Rothwell , Michael J. Cloud

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

CRC Press

January 2020 : 257pp

Pb: 978-0-367-34754-3 : **£49.99**

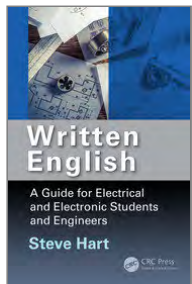
Hb: 978-0-367-89682-9 : **£105**

eBook: 978-0-429-32769-8

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

Written English

A Guide for Electrical and Electronic Students and Engineers



Steve Hart English Language Editor and Resource Writer, Cambridge, UK

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

CRC Press

December 2015 : 216pp

Pb: 978-1-498-73962-7 : **£37.99**

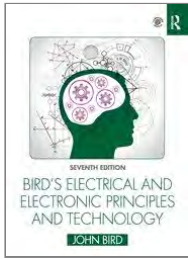
Hb: 978-1-138-42241-4 : **£180**

eBook: 978-1-315-21412-2

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

7TH EDITION

Bird's Electrical and Electronic Principles and Technology



John Bird Defence College of Technical Training, UK

This practical textbook introduces the essentials of electrical and electronic engineering, and their uses in technology. It sets out detailed examples and lab experiments, for future technicians in electrical engineering, electronics, and telecommunications, and is ideal for vocational courses at Levels 2 and 3, foundation degrees and introductory courses for undergraduates. Now with more on glass batteries, and global climate change and the future of electricity production. The companion website gives resources for both students and lecturers, including lists of essential formulae, multiple choice tests, and full solutions for all 900 further questions.

Routledge

October 2021 : 592pp

Pb: 978-0-367-67235-5 : **£39.99**

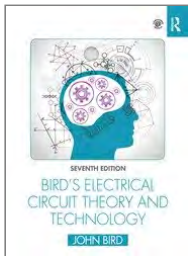
Hb: 978-0-367-67237-9 : **£180**

eBook: 978-1-003-13040-6

* For full contents and more information, visit: www.routledge.com/9780367672355

7TH EDITION

Bird's Electrical Circuit Theory and Technology



John Bird Defence College of Technical Training, UK

This fully comprehensive text explains electrical circuit theory and associated technology topics in a straightforward manner, supported by practical engineering examples and applications to ensure that readers can relate theory to practice. Containing over 800 worked examples, this is an excellent text for a range of courses, in particular for Degree and Foundation Degree in electrical principles, circuit theory, telecommunications, and electrical technology.

Routledge

October 2021 : 930pp

Pb: 978-0-367-67222-5 : **£49.99**

Hb: 978-0-367-67224-9 : **£180**

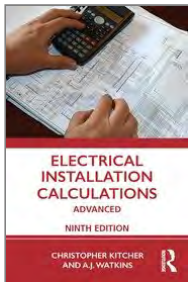
eBook: 978-1-003-13033-8

* For full contents and more information, visit: www.routledge.com/9780367672225

9TH EDITION

Electrical Installation Calculations

Advanced



Christopher Kitcher College Lecturer, UK

This new edition has been updated to be in line with the 18th Edition IEE Wiring Regulations (BS 7671:2018). It includes ring final circuit calculations, test procedures and interpretation of results, testing of 3 phase motors, polarisation testing calculations, risk level calculations for surge protection, and updated PV calculations. It meets the requirements of Level 3 electrical installation courses, and includes calculations used by professional electrical installation engineers and students involved in higher levels of study. Also included are a glossary section, worked examples and exercises, and a question-and-answer section.

Routledge

June 2022 : 240pp

Pb: 978-1-032-19332-8 : **£32.99**

Hb: 978-1-032-19333-5 : **£84.99**

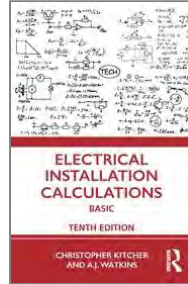
eBook: 978-1-003-25872-8

* For full contents and more information, visit: www.routledge.com/9781032193328

10TH EDITION

Electrical Installation Calculations

Basic



Christopher Kitcher College Lecturer, UK

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Routledge

June 2022 : 218pp

Pb: 978-1-032-19340-3 : **£32.99**

Hb: 978-1-032-19341-0 : **£84.99**

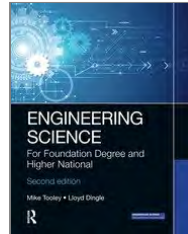
eBook: 978-1-003-25873-5

* For full contents and more information, visit: www.routledge.com/9781032193403

2ND EDITION

Engineering Science

For Foundation Degree and Higher National



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

Engineering Science will help you understand the scientific principles involved in engineering. Focusing primarily upon core mechanical and electrical science topics, students enrolled on an Engineering Foundation degree and Higher National Engineering qualification will find this book an invaluable aid to their learning. The second edition features new chapters on 'Materials, Properties, Testing and Failure' and 'AC Network Analysis' complete with 54 totally new drawings.

Routledge

September 2020 : 528pp

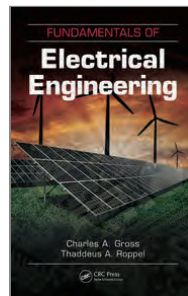
Pb: 978-0-367-43272-0 : **£47.99**

Hb: 978-0-367-43273-7 : **£135**

eBook: 978-1-003-00224-6

* For full contents and more information, visit: www.routledge.com/9780367432720

Fundamentals of Electrical Engineering



Charles A. Gross Auburn University, Alabama, USA,
Thaddeus A. Roppel Auburn University, Alabama, USA

Written to provide an overview of the electrical engineering profession to college students and professionals outside the field of electrical engineering, this textbook provides information on the necessary technical competencies required within the field. Simple and easy to use, yet complete in rigor and coverage of fundamental concepts, this book teaches the fundamentals of electrical engineering without including the typical analytical methods that hold little relevance for non-electrical engineers. Many examples explaining concepts and homework problems are included within the chapters to aid with student comprehension and application. A solutions manual is provided as well, upon qualification.

CRC Press

February 2012 : 482pp

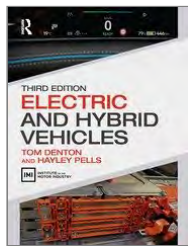
Hb: 978-1-439-83714-6 : **£105**

eBook: 978-0-429-11299-7

* For full contents and more information, visit: www.routledge.com/9781439837146

3RD EDITION

Electric and Hybrid Vehicles



Tom Denton Technical Consultant, Institute of the Motor Industry (IMI), UK, **Hayley Pells** Avia Sports Cars Ltd, UK

Endorsed by the Institute of the Motor Industry, this full colour textbook introduces the subject for further education and undergraduate students, technicians, and drivers. This edition is extensively updated, especially regarding batteries, charging and the high voltage pathway, and with new case studies and illustrations. It covers the different types of hybrid and electric vehicle, costs and emissions, and the charging infrastructure, before explaining how the vehicles work, plus the maintenance and repair procedures. It particularly suits students studying for IMI Levels 2, 3 and 4 Awards in Hybrid Electric Vehicles, IMI Accreditation, C&G and all other EV/Hybrid courses.

Routledge

January 2024 : 260pp

Pb: 978-1-032-55679-6 : **£39.99**

Hb: 978-1-032-55680-2 : **£100**

eBook: 978-1-003-43173-2

* For full contents and more information, visit: www.routledge.com/9781032556796

10TH EDITION

Electrical Installation Work



Brian Scaddan

This well established installation guide to design, installation and testing provides a topic by topic progression, in line with the 18th Edition of the Wiring Regulations. It now contains new material on batteries, LED and ELV lighting, data cabling and renewable electricity generation and distribution, with some focus on medical locations, and a glossary of terms. The guidance on tools used and safety legislation have also been brought up to date. It suits City and Guilds and EAL courses such as C&G 2365, or 2357, and professionals, but is independent of any particular course.

Routledge

November 2022 : 322pp

Pb: 978-1-032-34891-9 : **£45.99**

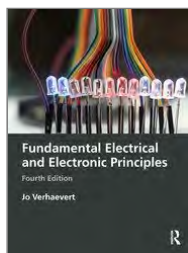
Hb: 978-1-032-34893-3 : **£125**

eBook: 978-1-003-32432-4

* For full contents and more information, visit: www.routledge.com/9781032348919

4TH EDITION

Fundamental Electrical and Electronic Principles



Jo Verhaevert Ghent University, Belgium

This book covers the essential principles that form the foundations for electrical and electronic engineering courses. This new edition is extensively updated with a greater focus on electronic principles, evenly balanced with electrical principles. Fuller coverage is given to active electronics, with the additional topics of diodes and transistors, and core topics such as oscilloscopes now reflect state-of-the-art technology. The book forms an excellent core work for beginning further education students with some mathematics background preparing for careers as technicians, and an introductory text for first year undergraduate students in all engineering disciplines.

Routledge

January 2024 : 272pp

Pb: 978-1-032-31147-0 : **£49.99**

Hb: 978-1-032-31148-7 : **£115**

eBook: 978-1-003-30829-4

* For full contents and more information, visit: www.routledge.com/9781032311470

3RD EDITION

Image and Video Compression for Multimedia Engineering

Fundamentals, Algorithms, and Standards, Third Edition

**Yun-Qing Shi , Huifang Sun**

The latest edition provides a comprehensive foundation for image and video compression. It covers HEVC/H.265 and future video coding activities, in addition to Internet Video Coding. The book features updated chapters and content, along with several new chapters and sections. It adheres to the current international standards, including the JPEG standard.

CRC Press

December 2021 : 664pp

Pb: 978-1-032-24065-7 : **£49.99**Hb: 978-1-138-29959-7 : **£135**

eBook: 978-1-315-09795-4

* For full contents and more information, visit: www.routledge.com/9781032240657

Microcontroller Engineering with MSP432

Fundamentals and Applications



Ying Bai

This book is designed for college students taking embedded controls or intelligent controls courses. It imparts both fundamental knowledge and practical techniques in the designing and building of professional microcontrollers applied in real industrial and commercial applications. The book provides a detailed description of the practical considerations and applications in embedded designing and programming using Keil ARM-MDK μ Version5.15, which is one of the most updated kits. It includes homework problems, real-world examples, and programming projects for hands-on application of material covered in each chapter.

CRC Press

June 2022 : 844pp

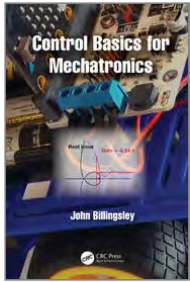
Pb: 978-1-032-33985-6 : **£45.99**

Hb: 978-1-498-77298-3 : **£120**

eBook: 978-1-315-36710-1

* For full contents and more information, visit: www.routledge.com/9781032339856

Control Basics for Mechatronics



John Billingsley

Mechatronics is a mongrel, a crossbreed of classic mechanical engineering, the relatively young pup of computer science, the energetic electrical engineering, the pedigree mathematics and the bloodhound of Control Theory. The theme running throughout the book is simulation, with simple JavaScript applications that let you experience the dynamics for yourself.

CRC Press

September 2023 : 174pp

Pb: 978-1-032-42583-2 : **£29.99**

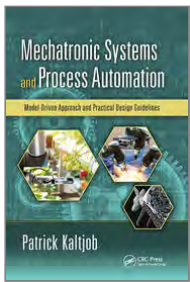
Hb: 978-1-032-42557-3 : **£92.99**

eBook: 978-1-032-52679-9 : **£27.99**

* For full contents and more information, visit: www.routledge.com/9781032425832

Mechatronic Systems and Process Automation

Model-Driven Approach and Practical Design Guidelines



Patrick O.J. Kaltjob

The book discusses the concept of process automation and mechatronic system design, while offering a unified approach and methodology for the modeling, analysis, automation and control, networking, monitoring, and sensing of various machines and processes from single electrical-driven machines to large-scale industrial process operations. This step-by-step guide covers design applications from various engineering disciplines (mechanical, chemical, electrical, computer, biomedical) through real-life mechatronics problems and industrial automation case studies with topics such as manufacturing, power grid, cement production, wind generator, oil refining, incubator, etc.

CRC Press

December 2020 : 467pp

Pb: 978-0-367-73502-9 : **£49.99**

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eBook: 978-1-351-24859-4

* For full contents and more information, visit: www.routledge.com/9780367735029

2ND EDITION

MicroMechatronics, Second Edition



Kenji Uchino

After Uchino's introduction of a new terminology, 'Micromechatronics' in 1979 for describing the application area of 'piezoelectric actuators', the rapid advances in semiconductor chip technology have led to a new terminology MEMS (micro-electro-mechanical-system) or even NEMS (nano-electro-mechanical-system) to describe mainly thin film sensor/actuator devices, a narrower area of micromechatronics coverage. New technologies, product developments and commercialization are providing the necessity of this major revision. In particular, the progresses in high power transducers, loss mechanisms in smart materials, energy harvesting and computer simulations are significant.

CRC Press

December 2021 : 584pp

Pb: 978-1-032-24069-5 : **£49.99**

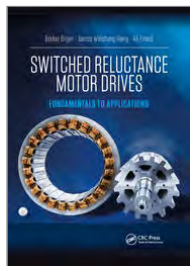
Hb: 978-0-367-20231-6 : **£135**

eBook: 978-0-429-26030-8

* For full contents and more information, visit: www.routledge.com/9781032240695

Switched Reluctance Motor Drives

Fundamentals to Applications



Edited by **Berker Bilgin , James Weisheng Jiang , Ali Emadi**

This is a comprehensive textbook covering major aspects of switched reluctance motor drives in detail. It also provides a macroscopic view of the use of electric motors in different sectors to explore the role of SRM in industry. Utilizing higher efficiency, lower cost, and robust electric motors will increase the level of electrification in industry, improve overall system efficiency, and reduce the operational cost, the electricity consumption, and emissions. This is where switched reluctance machine (SRM) can play a significant role. One of the main advantages of SRM is its low-cost and simple construction, which can provide reliable operation in a harsh environment.

CRC Press

June 2022 : 824pp

Pb: 978-1-032-33875-0 : **£58.99**

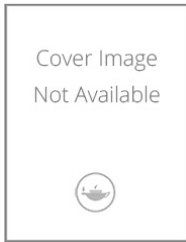
Hb: 978-1-138-30459-8 : **£145**

eBook: 978-0-203-72999-1

* For full contents and more information, visit: www.routledge.com/9781032338750

3RD EDITION

Plasma Physics and Engineering



Alexander Fridman Drexel University, Philadelphia, USA,
Lawrence A. Kennedy University of Illinois, Chicago, USA

Plasma Physics and Engineering presents basic and applied knowledge on modern plasma physics, plasma chemistry and plasma engineering for senior undergraduate and graduate students as well as for scientists and engineers, working in academia, research labs and industry with plasmas, laser and combustion systems. This is a unique book providing a clear fundamental introduction to all aspects of modern plasma science, describing all electric discharges applied today from vacuum to atmospheric pressure and higher, from thermal plasma sources to essentially cold non-equilibrium discharges. A solutions manual is available, which is helpful in relevant university courses.

CRC Press

September 2023 : 724pp

Pb: 978-0-367-69752-5 : £49.99

Hb: 978-1-498-77221-1 : £155

eBook: 978-1-315-12081-2

* For full contents and more information, visit: www.routledge.com/9780367697525

2ND EDITION

Advanced DC/DC Converters



Fang Lin Luo Anhui University, HeFei, China; Nanyang Technological University, Singapore, **Hong Ye** Nanyang Technological University, Singapore

Series: Power Electronics and Applications Series

The production of DC/DC converters occupies the largest percentage of the total turnover of all conversion equipment productions. The purpose of this new edition is to provide advanced DC/DC converters that are both concise and useful for engineering students and practicing professionals. It introduces more than 200 topologies of the advanced DC/DC converters originally developed by authors. All prototypes are novel approaches and great contributions in modern power engineering.

CRC Press
December 2016 : 774pp
Hb: 978-1-498-77490-1 : £185
eBook: 978-1-315-39378-0

* For full contents and more information, visit: www.routledge.com/9781498774901

Application of Signal Processing Tools and Artificial Neural Network in Diagnosis of Power System Faults



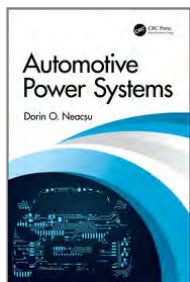
Nabamita Banerjee Roy, **Kesab Bhattacharya**

Accurate, fast, and reliable fault classification techniques are an important operational requirement in modern-day power transmission systems. This book gives an elaboration of the power system faults and the conventional techniques of fault analysis. The book will provide necessary information and knowledge to an Engineering student and practitioners to carry out research activity. Readers will learn the method of programming and simulation of any network in MATLAB. They will learn how to extract features from a signal waveform by using a suitable signal processing toolbox. They will also learn the application of Artificial Neural Network.

CRC Press
September 2023 : 143pp
Pb: 978-1-032-04363-0 : £49.99
Hb: 978-0-367-43113-6 : £110
eBook: 978-0-367-43114-3

* For full contents and more information, visit: www.routledge.com/9781032043630

Automotive Power Systems



Dorin O. Neacșu Technical University of Iasi, Romania.

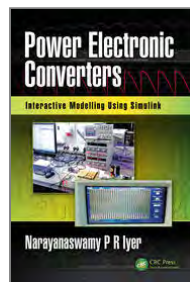
The main challenge in vehicle electrification consists of replacing the engine-based mechanical, pneumatic, or hydraulic ancillary energy sources with electrical energy processed through an electromagnetic device. The book illustrates this evolutionary process with numerous series-production examples for either of body or chassis systems, from old milestones to futuristic luxury vehicles. The first part of the book describes automotive technologies for generation and distribution of electrical power, as well as its usage within body systems, chassis systems, or lighting. The second part explores deeper into the specifics of each component of the vehicle electric power system.

CRC Press
March 2022 : 314pp
Pb: 978-0-367-51297-2 : £45.99
Hb: 978-0-367-51296-5 : £84.99
eBook: 978-1-003-05323-1

* For full contents and more information, visit: www.routledge.com/9780367512972

Power Electronic Converters

Interactive Modelling Using Simulink



Narayanaswamy P R Iyer Myna Electrical and Electronics Consultancy, Australia

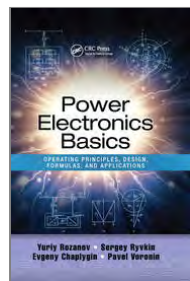
Provides a step-by-step method for the development of a virtual interactive power electronics laboratory. The book is suitable for undergraduates and graduates for their laboratory course and projects in power electronics. It is equally suitable for professional engineers in the power electronics industry. The reader will learn to develop interactive virtual power electronics laboratory and perform simulations of their own, as well as any given power electronic converter design using SIMULINK with advanced system model and circuit component level model.

CRC Press
March 2018 : 356pp
Hb: 978-0-815-36819-9 : £135
eBook: 978-1-351-25575-2

* For full contents and more information, visit: www.routledge.com/9780815368199

Power Electronics Basics

Operating Principles, Design, Formulas, and Applications



Yuriy Rozanov, **Sergey E. Ryvkin**, **Evgeny Chaplygin**, **Pavel Voronin**

This book explains the key concepts and terms of power electronics, exploring applications including renewable energy production, fuel cells, and electric drives. It describes the power assemblies, control, and passive components of semiconductor power switches. It covers the control of power electronic devices, from mathematical modeling to analysis of electrical processes. It addresses pulse-width modulation, power quality control, and multilevel, modular, and multicell power converter topologies. It also discusses line-commutated and resonant converters, as well as inverters and AC converters based on completely controllable switches.

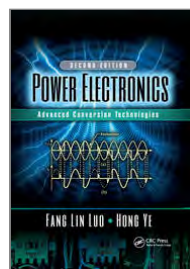
CRC Press
September 2020 : 492pp
Pb: 978-0-367-65597-6 : £65
Hb: 978-1-482-29879-6 : £155
eBook: 978-0-429-17906-8

* For full contents and more information, visit: www.routledge.com/9780367655976

2ND EDITION

Power Electronics

Advanced Conversion Technologies, Second Edition



Fang Lin Luo, **Hong Ye**

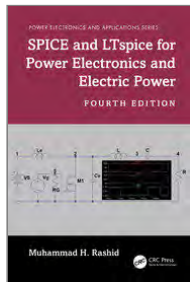
Recently, many renewable energy systems, such as solar-panel and wind-turbine energy systems, have used DC/DC converters and DC/AC inverters. By discussing a wide range of converters, readers can find suitable topologies for their applications and even invent new topologies by using suggested methods in the text. This edition features an entirely new chapter on best switching angles to obtain lowest THD for multilevel DC/AC inverters. All other chapters have been updated and include homework problems throughout. With case studies from GE, AEG, Simplatroll Ltd, and Chinese Power Manufacturing Co., the reader will be exposed to practical applications in industry and real-world settings

CRC Press
September 2020 : 735pp
Pb: 978-0-367-65615-7 : £54.99
Hb: 978-1-138-73532-3 : £150
eBook: 978-1-315-18627-6

* For full contents and more information, visit: www.routledge.com/9780367656157

4TH EDITION

SPICE and LTspice for Power Electronics and Electric Power



Muhammad H. Rashid University of West Florida,
Pensacola, USA

Series: Power Electronics and Applications Series

Power electronics can be a difficult course for students to understand and for professional professors to teach, simplifying the process for both.

CRC Press

November 2024 : 649pp

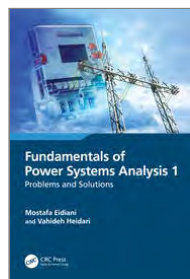
Hb: 978-1-032-25661-0 : **£84.99**

eBook: 978-1-003-28445-1

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Fundamentals of Power Systems Analysis 1

Problems and Solutions



Mostafa Eidiani, Vahideh Heidari

A supplementary book on power systems and their points is necessary for every successful student because the main books contain so much information. The supplementary book should have a summary, many tests, and an explanation of the answers. There is a descriptive answer sheet in this book that is very helpful for re-reading and summarizing the information. This book can help you increase your study speed and master the important lessons if you are in the last few months of the semester and have not studied.

CRC Press

September 2023 : 214pp

Pb: 978-1-032-49561-3 : **£42.99**

Hb: 978-1-032-49563-7 : **£92.99**

eBook: 978-1-032-55462-4 : **£39.99**

* For full contents and more information, visit: www.routledge.com/9781032495613

Infrastructure Asset Management with Power System Applications



Lina Bertling Tjernberg KTH Royal Institute of Technology, Stockholm, Sweden

This book is about infrastructure asset management, which can be expressed as the combination of management, financial, economic, and engineering, applied to physical assets with the objective of providing the required level of service in the most cost-effective manner. It includes management of the whole lifecycle of a physical asset from design, construction, commission, operation, maintenance, modification, decommissioning, and disposal. It covers budget issues and focuses on asset management of an infrastructure for energy—i.e., the electric power system.

CRC Press

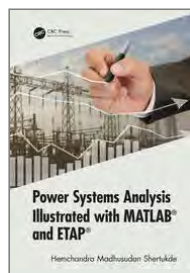
April 2018 : 582pp

Hb: 978-1-498-70867-8 : **£155**

eBook: 978-1-351-05741-7

* For full contents and more information, visit: www.routledge.com/9781498708678

Power Systems Analysis Illustrated with MATLAB and ETAP



Hemchandra Madhusudan Shertukde University of Hartford, Connecticut, USA

Electrical power is harnessed using several energy sources, including: coal, hydel, nuclear, solar, and wind. Generated power is needed to be transferred over long distances to support load requirements of customers viz: residential, industrial, and commercial. This necessitates proper design and analysis of Power Systems to efficiently control the power flow from one point to the other without delay, disturbance, or interference. Ideal for utility and power system designer professionals and students, this book is richly illustrated with MATLAB and etap (Electrical Transient Analysis Program) to succinctly illustrate concepts throughout, and includes examples, case studies, and problems.

CRC Press

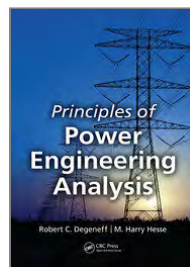
January 2019 : 304pp

Hb: 978-1-498-79721-4 : **£155**

eBook: 978-0-429-43692-5

* For full contents and more information, visit: www.routledge.com/9781498797214

Principles of Power Engineering Analysis



Robert C. Degeneff Utility Systems Technologies, Inc., Niskayuna, New York, USA, **M. Harry Hesse** Southbury, Connecticut, USA

This classroom-tested, graduate-level text presents the basic tools required to understand the components in an electric power transmission system. It explains from first principles the expressions that predict the performance of transmission systems and transformers. The authors then extend these concepts to balanced three-phase systems and unbalanced systems. They introduce symmetrical component analysis of transmission systems, three-phase transformers, and faulted systems. They also describe the design of untransposed transmission lines and discuss other analysis component systems. A solutions manual is available for qualifying instructors.

CRC Press

March 2017 : 452pp

Pb: 978-1-138-07506-1 : **£76.99**

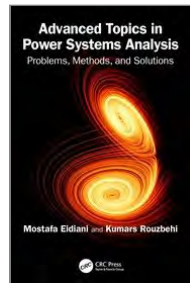
Hb: 978-1-439-89231-2 : **£195**

eBook: 978-0-429-18566-3

* For full contents and more information, visit: www.routledge.com/9781138075061

Advanced Topics in Power Systems Analysis

Problems, Methods, and Solutions



Mostafa Eidiani, Kumars Rouzbehi

"Electric Power Systems Analysis" is one of the most challenging courses of the Electric Power Engineering major which is taught for junior students. Its complexity arises from numerous prerequisites, a wide array of topics, and a crucial dependence on computational tools, presenting students with significant challenges."

CRC Press

September 2024 : 134pp

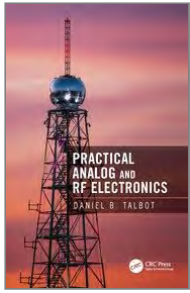
Pb: 978-1-032-82866-4 : **£41.99**

Hb: 978-1-032-82878-7 : **£91.99**

eBook: 978-1-003-50677-5 : **£38.99**

* For full contents and more information, visit: www.routledge.com/9781032828664

Practical Analog and RF Electronics



Daniel B. Talbot

This is a book about real-world techniques in designing analog circuits: amplifiers, filters, injection-locked oscillators, phase-locked loops, and spectrum regrowth in digital RF transmitters, etc. The book offers practical solutions to analog and RF problems, helping the reader to achieve high performance circuit and system design. This book will be useful to both students and practitioners. Teachers will find the book an important supplement to a standard analog and RF course, or it may stand alone as a textbook. Practitioners may find it useful by bookmarking some of the step-by-step procedures, e.g. the section on simplified impedance matching or group delay flattening.

CRC Press

April 2022 : 226pp

Pb: 978-0-367-54294-8 : **£49.99**

Hb: 978-0-367-54291-7 : **£125**

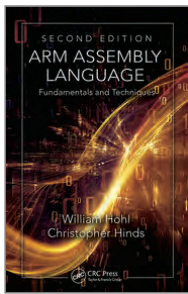
eBook: 978-1-003-08854-7

* For full contents and more information, visit: www.routledge.com/9780367542948

2ND EDITION

ARM Assembly Language

Fundamentals and Techniques, Second Edition



William Adam Hohl Consultant, Austin, Texas, USA,
Christopher Hinds ARM, Inc., Austin, Texas, USA

This edition continues to support the popular ARM7TDMI, but also addresses the latest architectures from ARM®, including the Cortex™-A, Cortex-R, and Cortex-M processors. Containing three brand new chapters, a new appendix, and expanded coverage of the ARM7™, this volume tackles IEEE 754 floating-point arithmetic, discusses both Keil™ MDK-ARM and Texas Instruments Code Composer Studio™, and provides a resource to be used alongside a variety of hardware evaluation modules, such as TI's Tiva Launchpad, STMicroelectronics' iNemo and Discovery, and NXP Semiconductors' Xplorer boards.

CRC Press

October 2014 : 453pp

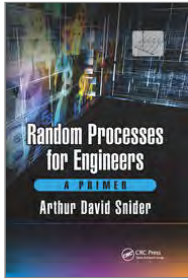
Hb: 978-1-482-22985-1 : £97

eBook: 978-0-429-16204-6

* For full contents and more information, visit: www.routledge.com/9781482229851

Random Processes for Engineers

A Primer



Arthur David Snider

This book discusses the statistical description of processes, including an extensive review of probability and statistics and the analysis of raw data using spectral methods. Various theoretical models (ARMA, Bernoulli, shot, Markov, and random walks) are explored, as well as techniques that are used for prediction—least mean-squared error, Wiener-Hopf and Kalman filters, etc. Everything in this book is introduced at a nuts and bolts level and fills in the gap between the undergraduate engineering statistics course and the axiomatic approaches venerated by specialists.

CRC Press

September 2020 : 207pp

Pb: 978-0-367-65635-5 : **£53.99**

Hb: 978-1-498-79903-4 : **£105**

eBook: 978-1-315-36548-0

* For full contents and more information, visit: www.routledge.com/9780367656355

Applied Soft Computing and Embedded System Applications in Solar Energy



Edited by **Rupendra Kumar Pachauri**, **Jitendra Kumar Pandey**, **Abhishek Sharmu**, **Om Nautiyal**, **Mangey Ram**

Series: Mathematical Engineering, Manufacturing, and Management Sciences

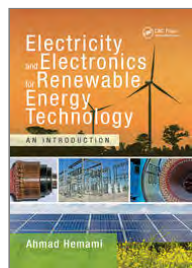
This book deals with energy systems and soft-computing methods from a wide range of approaches and application perspectives. The authors examine how embedded system applications can deal with the smart monitoring and controlling of stand-alone and grid connected solar PV systems for increased efficiency. The book is intended for students, professionals, and researchers in electrical and computer engineering fields, working on alternative energy-related issues such as problems with renewable energy resources (wind, solar, sea, etc.), micro grid and smart grid projects.

CRC Press
September 2023 : 254pp
Pb: 978-0-367-63902-0 : **£49.99**
Hb: 978-0-367-62512-2 : **£135**
eBook: 978-1-003-12123-7

* For full contents and more information, visit: www.routledge.com/9780367639020

Electricity and Electronics for Renewable Energy Technology

An Introduction



Ahmad Hemami Adjunct Professor, McGill University, Montreal, Québec, Canada

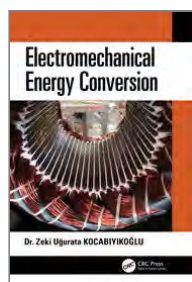
Series: Power Electronics and Applications Series

This book instills an essential knowledge of electricity and electronics required for work with renewable energy. It begins with a brief explanation of the necessary mathematics and then addresses the basics of electricity and relationships, motors and generators, transformers, and networks and distribution; tackles the key concepts associated with electronics, diodes and transistors, switching devices, and power converters; covers digital electronics from number systems and logic circuits to encoders and decoders; and explores advanced subjects such as reactive power and the operation of a transistor.

CRC Press
August 2017 : 818pp
Pb: 978-1-138-89299-6 : **£61.99**
Hb: 978-1-482-26176-9 : **£155**
eBook: 978-1-315-27506-2

* For full contents and more information, visit: www.routledge.com/9781138892996

Electromechanical Energy Conversion



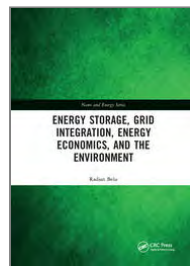
Zeki Uğurata Kocabiyikoğlu TOBB Economy and Technology University, Turkey.

This book is intended to be a text book on "Electromechanical Energy Conversion" for the undergraduates of electrical and electronic engineering students of universities and colleges. Therefore the level and amount of the knowledge to be transferred to the reader is kept as much as what can be transferred in one academic semester of a university or college. Although the subject is rather classical and somehow well established in some respects it is vast and can be difficult to grasp if went in to details. In this book it is aimed to be as short, lean and as easily understandable as possible with minimum of wording and maximum of drawings, figures and tables.

CRC Press
March 2022 : 296pp
Pb: 978-0-367-52402-9 : **£45.99**
Hb: 978-0-367-32267-0 : **£105**
eBook: 978-0-429-31763-7

* For full contents and more information, visit: www.routledge.com/9780367524029

Energy Storage, Grid Integration, Energy Economics, and the Environment



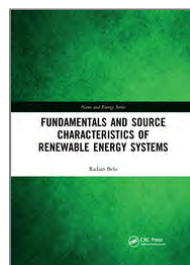
Radian Belu

The book will cover energy storage systems, bioenergy and hydrogen economy, grid integration of the renewable energy systems, distributed generation, economic analysis and environmental impacts of renewable energy systems. Solutions manual and Power Point slides are included for instructors.

CRC Press
June 2022 : 392pp
Pb: 978-1-032-33796-8 : **£45.99**
Hb: 978-0-367-26140-5 : **£120**
eBook: 978-0-429-32243-3

* For full contents and more information, visit: www.routledge.com/9781032337968

Fundamentals and Source Characteristics of Renewable Energy Systems



Radian Belu

The book will cover electric energy from alternative energy sources including solar, wind, water, hydropower, geothermal and ocean energy. This textbook is intended for an audience with little or no power engineering or renewable energy background.

CRC Press
June 2022 : 420pp
Pb: 978-1-032-33794-4 : **£45.99**
Hb: 978-0-367-26139-9 : **£120**
eBook: 978-0-429-29728-1

* For full contents and more information, visit: www.routledge.com/9781032337944

Photovoltaic Laboratory

Safety, Code-Compliance, and Commercial Off-the-Shelf Equipment



Peter T. Parrish Irvine Valley College, California, USA

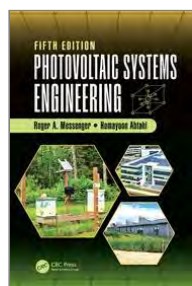
This textbook is ideal preparation for those seeking a career in the photovoltaic (PV) industry. It is the only textbook that offers students the opportunity to design, build, test, and troubleshoot practical PV systems based on commercially available equipment. Complete with electrical schematics, layouts, and step-by-step installation instructions, this hands-on laboratory manual provides in-depth, project-driven instruction on safety, trade math, circuit measurement, site survey, mechanical and electrical integration, characterization of PV modules, and the design, installation, and testing of different off-grid and grid-tied PV systems.

CRC Press
April 2016 : 390pp
Pb: 978-1-482-24443-4 : **£86.99**
Hb: 978-1-138-45985-4 : **£150**
eBook: 978-1-315-22241-7

* For full contents and more information, visit: www.routledge.com/9781482244434

5TH EDITION

Photovoltaic Systems Engineering



Roger A. Messenger Florida Atlantic University (FAU), Boca Raton, Florida, USA, **Homayoon "Amir" Abtahi** Florida Atlantic University, Boca Raton, USA

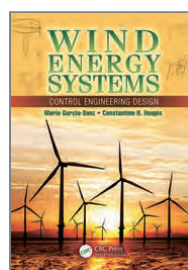
The primary purpose of PV Systems Engineering is to provide a comprehensive set of PV knowledge and understanding tools for the design, installation, commissioning, inspection and operation of PV systems.

CRC Press
December 2024 : 411pp
Hb: 978-1-032-72621-2 : £110
eBook: 978-1-003-47089-2

* For full contents and more information, visit: www.routledge.com/9781032726212

Wind Energy Systems

Control Engineering Design



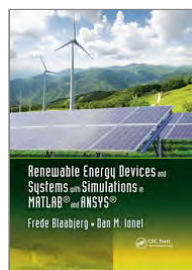
Mario Garcia-Sanz Case Western Reserve University, Cleveland, Ohio, USA, **Constantine H. Houpis** Air Force Institute of Technology, Wright-Patterson AFB, Ohio, USA

Presenting the latest developments in the field of advanced robust control engineering design techniques for wind turbines applications, this book introduces a concurrent engineering approach to design efficient and reliable controllers for the most critical problems of multi-megawatt wind energy systems. It describes large aerodynamic flexible structures, which are working under very turbulent and unpredictable environmental conditions and are connected to a variable and demanding electrical grid. Exemplifying how to achieve future control challenges in new energy systems, the text also explores concurrent engineering methods, advanced quantitative (QFT) robust control techniques, and switching control strategies for critical real-world applications.

CRC Press
February 2012 : 632pp
Hb: 978-1-439-82179-4 : £110
eBook: 978-0-429-18561-8

* For full contents and more information, visit: www.routledge.com/9781439821794

Renewable Energy Devices and Systems with Simulations in MATLAB® and ANSYS®



Edited by **Frede Blaabjerg**, **Dan M. Ionel**

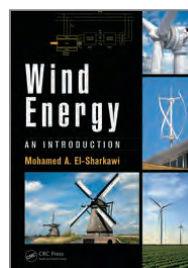
This book focuses on renewable generation technology and provides a detailed overview of the state-of-the-art technology today, while exploring possibilities for the future. Written by leading experts in the field of power electronics, this book covers a broad range of renewable energy topics such as fuel cells, wave energy, batteries, and their integration into a microgrid. Two simulation projects are available on PV and wind generators, with models in MATLAB and Simulink, which will allow the reader to design for installation both a PV and small scale wind turbine system.

CRC Press
September 2020 : 414pp
Pb: 978-0-367-65621-8 : £54.99
Hb: 978-1-498-76582-4 : £150
eBook: 978-1-315-36739-2

* For full contents and more information, visit: www.routledge.com/9780367656218

Wind Energy

An Introduction



Mohamed A. El-Sharkawi University of Washington, Seattle, USA

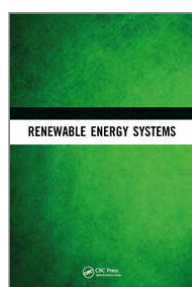
This book covers wind energy system types, operation, modeling, analysis, integration, and control. Featuring numerous models, illustrations, examples, and exercises, the text explains the aerodynamic theories that govern the operation of wind turbines, highlights the differences between the most common types of wind turbines, analyzes the main power electronic circuits used in wind energy, details the electrical generators from the basic principle of induced voltage to the steady-state and dynamic models, and discusses the main integration challenges of wind energy systems with electric utility systems.

CRC Press
June 2015 : 355pp
Hb: 978-1-482-26399-2 : £115
eBook: 978-0-429-17164-2

* For full contents and more information, visit: www.routledge.com/9781482263992

Renewable Energy Systems

Fundamentals and Source Characteristics



Radian Belu

The Renewable Energy Systems: Fundamentals and Source Characteristics is a set book coming in two volumes. The first volume is "Fundamentals and Source Characteristics of Renewable Energy Systems" and the second volume is called "Energy Storage, Grid Integration, Energy Economics and the Environment".

CRC Press
July 2022 : 810pp
Pb: 978-1-032-33783-8 : £54.99
Hb: 978-1-482-25744-1 : £150

* For full contents and more information, visit: www.routledge.com/9781032337838

RF Circuit Design Techniques for MF-UHF Applications



Abdullah Eroglu Purdue University, Fort Wayne, USA

A valuable resource for professionals and students, this book explains how to design, simulate, and implement RF/microwave components and devices for applications within the medium frequency (MF) to ultrahigh frequency (UHF) range. It covers a variety of techniques for designing high-power microstrip circuits, directional couplers, transformers, composite and multilayer inductors, filters, combiners/dividers, and RFID systems. The book illustrates how to apply the theory in practice and includes real-world implementation examples that use computer-aided design (CAD) tools. Throughout, the author offers practical hints to help designers.

CRC Press

March 2017 : 358pp

Pb: 978-1-138-07760-7 : **£79.99**

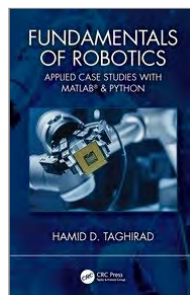
Hb: 978-1-439-86165-3 : **£155**

eBook: 978-1-315-21712-3

* For full contents and more information, visit: www.routledge.com/9781138077607

Fundamentals of Robotics

Applied Case Studies with MATLAB® & Python



Hamid D. Taghirad

In an era where robotics is reshaping industries and redefining possibilities, "Fundamentals of Robotics: Practical Case Studies with Matlab & Python" emerges as an essential guide for both aspiring engineers and seasoned professionals. This comprehensive book bridges the gap between theoretical knowledge and practical application, driving advancements in robotics technology that mimic the complexity and grace of biological creatures.

CRC Press

January 2025 : 546pp

Pb: 978-1-032-79300-9 : **£81.99**

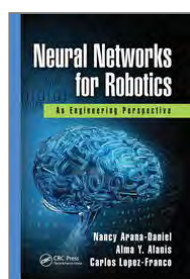
Hb: 978-1-032-79305-4 : **£91.99**

eBook: 978-1-003-49141-5

* For full contents and more information, visit: www.routledge.com/9781032793009

Neural Networks for Robotics

An Engineering Perspective



Nancy Arana-Daniel , Alma Y. Alanis , Carlos Lopez-Franco

The book offers an insight on artificial neural networks for giving a robot a high level of autonomous tasks, such as navigation, cost mapping, object recognition, intelligent control of ground and aerial robots, and clustering, with real-time implementations. The reader will learn various methodologies that can be used to solve each stage on autonomous navigation for robots, from object recognition, clustering of obstacles, cost mapping of environments, path planning, and vision to low level control. These methodologies include real-life scenarios to implement a wide range of artificial neural network architectures.

CRC Press

December 2020 : 246pp

Pb: 978-0-367-73339-1 : **£58.99**

Hb: 978-0-815-37868-6 : **£155**

eBook: 978-1-351-23179-4

* For full contents and more information, visit: www.routledge.com/9780367733391

Robotic Safety Systems

An Applied Approach



Justin Starr , Christopher Quick

This book reboots the conversation about all technologies relating to robot safety. It covers key features of industry standards, relevant government regulations, hardware devices, physical safeguards, and vendor-specific software implementations, including FANUC's Dual-Check Safety, ABB's SafeMove and more. This book is intended for post-secondary classes at universities with specializations in robotics or robotic engineering. It will also be useful for robot systems integrators - design engineers, consultants, integration experts, robot programmers.

CRC Press

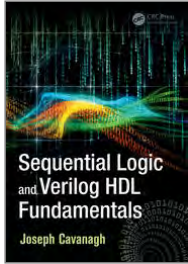
November 2024 : 286pp

Hb: 978-1-032-25989-5 : **£74.99**

eBook: 978-1-003-28816-9

* For full contents and more information, visit: www.routledge.com/9781032259895

Sequential Logic and Verilog HDL Fundamentals



Joseph Cavanagh Santa Clara University, California, USA

This self-contained tutorial comprehensively discusses the analysis and synthesis of both synchronous and asynchronous sequential machines. These machines are implemented using Verilog Hardware Description Language (HDL), in accordance with the Institute of Electrical and Electronics Engineers (IEEE) Standard: 1364-1995. The book first introduces Verilog HDL and then uses it to design synchronous sequential machines and alternative synchronous sequential machines. Next, the text describes the synthesis of asynchronous sequential machines using Verilog HDL, and provides synthesis examples of pulse-mode asynchronous sequential machines using Verilog HDL.

CRC Press

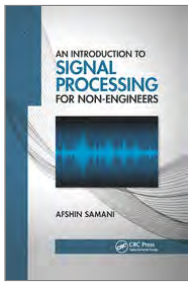
October 2015 : 860pp

Hb: 978-1-498-73822-4 : £175

eBook: 978-1-315-21413-9

* For full contents and more information, visit: www.routledge.com/9781498738224

An Introduction to Signal Processing for Non-Engineers



Afshin Samani

This book introduces the main and basic concepts of signal processing for scientists and students with no engineering background. The book presents the concepts with minimum use of mathematical formulations and more emphasis on visual illustrations. The idea is to present an intuitive approach to understand the basis of signal processing and exemplify some practical applications of the concepts by which the readers achieve basic knowledge and skills in signal processing. Most of illustrations in the book have been created by computer programming in MATLAB, thus the reader will learn the basis of using computer in signal processing applications.

CRC Press

June 2022 : 116pp

Pb: 978-1-032-33781-4 : £49.99

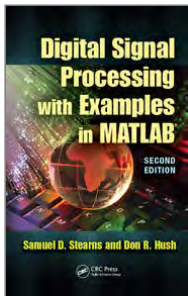
Hb: 978-0-367-20755-7 : £125

eBook: 978-0-429-26333-0

* For full contents and more information, visit: www.routledge.com/9781032337814

2ND EDITION

Digital Signal Processing with Examples in MATLAB®



Samuel D. Stearns Sandia National Laboratories, Albuquerque, New Mexico, USA, **Donald R. Hush** Los Alamos National Laboratory, New Mexico, USA

Series: Electrical Engineering & Applied Signal Processing Series

Updated and expanded, the second edition of this bestselling text introduces the fundamentals of DSP. Along with discussing current DSP applications, this edition includes new chapters on analog systems models and pattern recognition using support vector machines as well as new sections on the chirp z-transform, resampling, waveform reconstruction, discrete sine transform, and logarithmic and nonuniform sampling. It also contains a more comprehensive table of transforms. Numerous exercises and examples harness the power of MATLAB® and MATLAB functions and examples are available for download online.

CRC Press

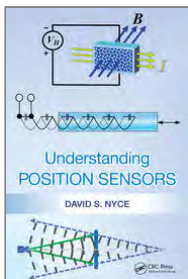
April 2011 : 510pp

Hb: 978-1-439-83782-5 : £115

eBook: 978-0-429-10613-2

* For full contents and more information, visit: www.routledge.com/9781439837825

Understanding Position Sensors



David Nyce

This book explains the theory and application of the technologies used in sensors for the measurement of linear and angular/rotary position, providing information important to sensor design, and how they function. A chapter on sensor outputs and communication protocols is included and is applicable to all types of industrial sensors. This book is written for electrical, mechanical, and material engineers, as well as for engineering students who are interested in understanding sensor technologies. The book could also be used as a textbook for an engineering course on sensor technology.

CRC Press

June 2023 : 448pp

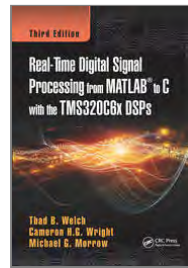
Hb: 978-1-032-43699-9 : £125

eBook: 978-1-003-36899-1

* For full contents and more information, visit: www.routledge.com/9781032436999

3RD EDITION

Real-Time Digital Signal Processing from MATLAB to C with the TMS320C6x DSPs



Thad B. Welch , Cameron H.G. Wright , Michael G. Morrow

The software in this new edition supports the latest high-performance hardware, including the powerful, inexpensive, and versatile OMAP-L138 Low Cost Development Kit from Texas Instruments. This book utilizes a highly practical, step-by-step framework that provides hands-on experience in real-time DSP, rather than relying on theory alone. The chapters utilize a series of demonstrations, exercises, and applied projects that begins with a quick overview of the pertinent theory, progresses to applying the concepts using MATLAB, and ultimately running applicable programs in real-time on some of the latest high-performance DSP hardware. The reader is coached into creating for themselves various

CRC Press

December 2020 : 480pp

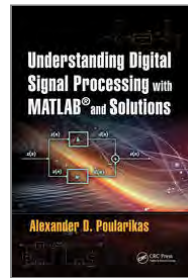
Pb: 978-0-367-73645-3 : £45.99

Hb: 978-1-498-78101-5 : £120

eBook: 978-1-315-36568-8

* For full contents and more information, visit: www.routledge.com/9780367736453

Understanding Digital Signal Processing with MATLAB® and Solutions



Alexander D. Poularikas

The book discusses signals that most electrical engineers detect and study. The vast majority of signals could never be detected due to random additive signals, known as noise, that distorts them or completely overshadows them. The text presents the methods for extracting the desired signals from the noise. Each new development includes examples that use MATLAB to provide the answer in graphic forms for the reader's comprehension and understanding.

CRC Press

March 2021 : 472pp

Pb: 978-0-367-77912-2 : £53.99

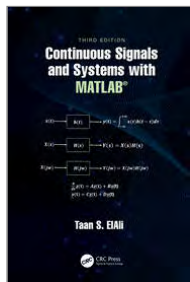
Hb: 978-1-138-08143-7 : £135

eBook: 978-1-315-11285-5

* For full contents and more information, visit: www.routledge.com/9780367779122

3RD EDITION

Continuous Signals and Systems with MATLAB®



Taan S. ElAli Benedict College, USA.

Series: Electrical Engineering Textbook Series

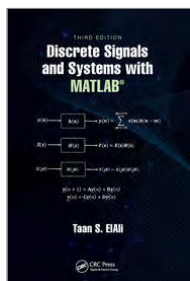
Continuous Signals and Systems with MATLAB offers comprehensive coverage of continuous linear systems, based on basic mathematical principles. It presents many solved problems from various engineering disciplines using analytical tools as well as MATLAB. This book is intended primarily for undergraduate junior and senior electrical, mechanical, aeronautical, and aerospace engineering students. Practicing engineers will also find this book useful. This book explains the subject matter with easy-to-follow mathematical development and numerous solved examples. The book covers traditional topics and includes an extensive coverage of state-space representation and analysis.

CRC Press
April 2022 : 362pp
Pb: 978-0-367-54299-3 : **£39.99**
Hb: 978-0-367-53359-5 : **£89.99**
eBook: 978-1-003-08858-5

* For full contents and more information, visit: www.routledge.com/9780367542993

3RD EDITION

Discrete Signals and Systems with MATLAB®



Taan S. ElAli Benedict College, USA.

This book is primarily intended for electrical and computer engineering students, and especially for the use of juniors or seniors in these undergraduate engineering disciplines. It can also be very useful to practicing engineers. It is detailed, broad, based on mathematical basic principles, focused, and contains many solved problems using analytical tools as well as MATLAB. The book is ideal for a one-semester course in the area of discrete linear systems or digital signal processing. Numerous examples are presented within each chapter to illustrate each concept when and where it is presented.

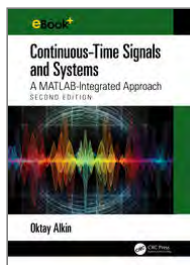
CRC Press
April 2022 : 360pp
Pb: 978-0-367-54300-6 : **£45.99**
Hb: 978-0-367-53993-1 : **£115**
eBook: 978-1-003-08859-2

* For full contents and more information, visit: www.routledge.com/9780367543006

2ND EDITION

Continuous-Time Signals and Systems

A MATLAB-Integrated Approach, Second Edition



Oktay Alkin Southern Illinois University Edwardsville, USA

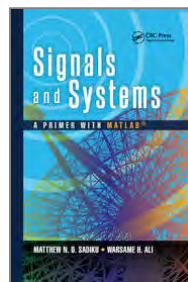
Drawing on author's 30+ years of teaching experience, "Continuous-Time Signals and Systems: A MATLAB Integrated Approach" represents a novel and comprehensive approach to understanding signals and systems theory.

CRC Press
March 2025 : 760pp
Hb: 978-1-032-67523-7 : **£110**

* For full contents and more information, visit: www.routledge.com/9781032675237

Signals and Systems

A Primer with MATLAB®



Matthew N. O. Sadiku , Warsame Hassan Ali

This book provides clear, interesting, and easy-to-understand coverage of continuous-time and discrete-time signals and systems. Each chapter opens with a historical profile or career talk, followed by chapter objectives. All principles are presented in a lucid, logical, step-by-step approach. The authors encourage the use of MATLAB® in a student-friendly manner, applying it gradually throughout the book. The text includes illustrative and worked examples, as well as practice problems and review questions. It makes an ideal textbook for junior-level undergraduate students in electrical and computer engineering.

CRC Press
December 2020 : 440pp
Pb: 978-0-367-73777-1 : **£45.99**
Hb: 978-1-482-26151-6 : **£96.99**
eBook: 978-0-429-17171-0

* For full contents and more information, visit: www.routledge.com/9780367737771

3RD EDITION

Systems and Signal Processing with MATLAB®

Two Volume Set



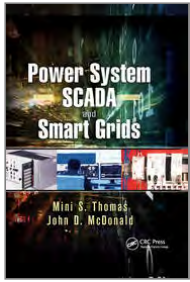
Taan S. ElAli Benedict College, USA.

Most books on linear systems for undergraduates cover discrete and continuous systems material together in a single volume. Such books also include topics in discrete and continuous filter design, and discrete and continuous state-space representations. However, with this magnitude of coverage, the student typically gets a little of both discrete and continuous linear systems but not enough of either. Continuous linear systems and discrete linear systems are broad topics and each merit a single book devoted to the respective subject matter. The objective of this set of two volumes is to present material for each at the undergraduate level using MATLAB.

CRC Press
April 2022 : 722pp
Pb: 978-0-367-55052-3 : **£76.99**
Hb: 978-0-367-53556-8 : **£195**
eBook: 978-1-003-09176-9

* For full contents and more information, visit: www.routledge.com/9780367550523

Power System SCADA and Smart Grids



Mini S. Thomas , John Douglas McDonald

This book brings together the fundamentals and possible application functions of power system supervisory control and data acquisition (SCADA). It assists electrical engineering students, researchers, and practitioners in acquiring a solid understanding of SCADA systems and application functions in generation, transmission, and distribution systems, which are evolving day by day, to help them adapt to new challenges effortlessly. The book reveals the inner secrets of SCADA systems, unveils the potential of the smart grid, and inspires more minds to get involved in the development process.

CRC Press

September 2020 : 352pp

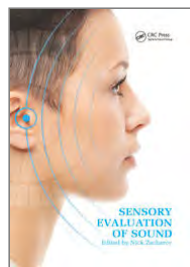
Pb: 978-0-367-65884-7 : **£45.99**

Hb: 978-1-482-22674-4 : **£105**

eBook: 978-1-315-21537-2

* For full contents and more information, visit: www.routledge.com/9780367658847

Sensory Evaluation of Sound



Edited by **Nick Zacharov**

The book provides a detailed review of the latest techniques in sensory evaluation, specifically applied to the evaluation of sound and audio. The material spans topics from concert hall acoustics to the latest applications in audiology and hearing aid design, via the fields of mobile telecommunications and product sound quality. Aimed at the engineer, researcher, manager, and student, the book gives insight into the advanced methods for the sensory evaluation of sound. Additionally, it provides a grounding of basic methodologies and associated statistical analysis methods and illustrates the use of these methods in a number of real world domains, with concrete case studies.

CRC Press

September 2020 : 578pp

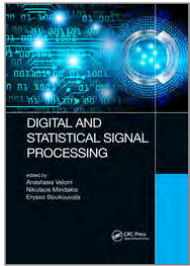
Pb: 978-0-367-65674-4 : **£45.99**

Hb: 978-1-498-75136-0 : **£110**

eBook: 978-0-429-42942-2

* For full contents and more information, visit: www.routledge.com/9780367656744

Digital and Statistical Signal Processing



Anastasia Veloni , Nikolaos Miridakis , Eryso Boukouvala

Nowadays, many aspects of electrical and electronic engineering are essentially applications of DSP. This is due to the focus on processing information in the form of digital signals, using certain DSP hardware designed to execute software. Fundamental topics in digital signal processing are introduced with theory, analytical tables, and applications with simulation tools. The book provides a collection of solved problems on digital signal processing and statistical signal processing. The solutions are based directly on the math-formulas given in extensive tables throughout the book, so the reader can solve practical problems on signal processing quickly and efficiently.

CRC Press

December 2020 : 576pp

Pb: 978-0-367-73299-8 : **£45.99**

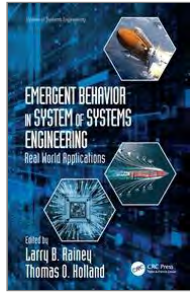
Hb: 978-1-138-58006-0 : **£120**

eBook: 978-0-429-50752-6

* For full contents and more information, visit: www.routledge.com/9780367732998

Engineering Emergence

A Modeling and Simulation Approach



Edited by **Larry B. Rainey, Mo Jamshidi**

This book examines the nature of emergence in context of man-made (i.e. engineered) systems, in general, and system of systems engineering applications, specifically. It investigates emergence to interrogate or explore the domain space from a modeling and simulation perspective to facilitate understanding, detection, classification, prediction, control, and visualization of the phenomenon. Written by leading international experts, the text is the first to address emergence from an engineering perspective.

CRC Press

September 2020 : 566pp

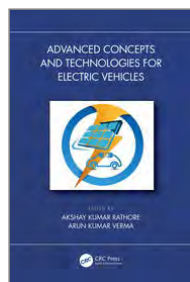
Pb: 978-0-367-65611-9 : **£54.99**

Hb: 978-1-138-04616-0 : **£145**

eBook: 978-1-138-04641-2

* For full contents and more information, visit: www.routledge.com/9780367656119

Advanced Concepts and Technologies for Electric Vehicles



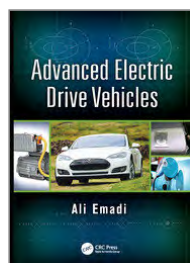
Edited by **Akshay Kumar Rathore**, **Arun Kumar Verma**

This book explains the basic and advanced technology behind the Power Electronics Converters for EV charging and their important developments, and also introduces the issues that underpin the design and performance modeling of electric vehicles. The book is intended for professionals, researchers, and engineers in the electric vehicle industry as well as advanced students in electrical engineering will benefit from this comprehensive coverage of electric vehicle technology.

CRC Press
August 2023 : 284pp
Hb: 978-1-032-36073-7 : £125
eBook: 978-1-003-33013-4

* For full contents and more information, visit: www.routledge.com/9781032360737

Advanced Electric Drive Vehicles



Edited by **Ali Emadi** McMaster University, Hamilton, Ontario, Canada

Series: *Energy, Power Electronics, and Machines*

This book covers more electric vehicles, hybrid electric vehicles, plug-in hybrid electric vehicles, range-extended electric vehicles, and all-electric vehicles including battery electric vehicles and fuel cell vehicles. It describes electrification technologies applied to nonpropulsion loads, such as power steering and air-conditioning systems. It discusses hybrid battery/ultra-capacitor energy storage systems, 48-V electrification and belt-driven starter generator systems, vehicle-to-grid interface and electrical infrastructure issues, energy management, and optimization. It provides numerous illustrations, practical examples, case studies, and end-of-chapter questions to aid in understanding key concepts and applications.

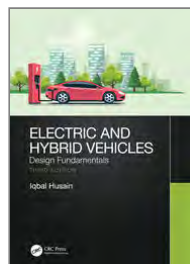
CRC Press
March 2017 : 616pp
Pb: 978-1-138-07285-5 : £79.99
Hb: 978-1-466-59769-3 : £195
eBook: 978-1-315-21557-0

* For full contents and more information, visit: www.routledge.com/9781138072855

3RD EDITION

Electric and Hybrid Vehicles

Design Fundamentals



Iqbal Husain North Carolina State University, USA.

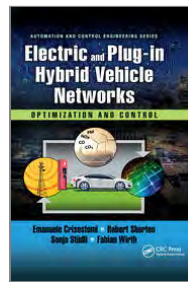
This thoroughly revised third edition presents a comprehensive systems level perspective of electric and hybrid vehicles with emphasis on technical aspects, mathematical relationships, and basic design guidelines. The platform has been set in this book for system level simulations to develop models using various softwares used in academia and industry, such as Matlab/Simulink, PLECS, PSIM, Motor-CAD and Altair Flux. Examples and simulation results are provided in this edition using these software tools. Engineers of multiple disciplines can either get a broader overview or explore in depth a particular aspect of electric or hybrid vehicles.

CRC Press
February 2021 : 498pp
Pb: 978-0-367-69393-0 : £47.99
Hb: 978-1-138-59058-8 : £120
eBook: 978-0-367-72346-0 : £47.99

* For full contents and more information, visit: www.routledge.com/9780367693930

Electric and Plug-in Hybrid Vehicle Networks

Optimization and Control



Edited by **Emanuele Crisostomi**, **Robert Shorten**, **Sonja Stüdli**, **Fabian Wirth**

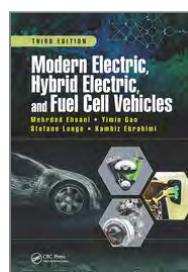
The book explores the behavior of networks of electric and hybrid vehicles. It covers the following topics: energy management issues for aggregates of plug-in vehicles; the design of sharing systems to support electro-mobility; context awareness in the operation of electric and hybrid vehicles, and the role that this plays in a Smart City context; and tools to test and design massively large-scale networks of such vehicles. A particular focus of the book is on the opportunities afforded by networked actuation possibilities in electric and hybrid vehicles, and the role that such actuation may play in air-quality and emissions management.

CRC Press
December 2020 : 260pp
Pb: 978-0-367-73559-3 : £49.99
Hb: 978-1-498-74499-7 : £135
eBook: 978-1-315-15186-1

* For full contents and more information, visit: www.routledge.com/9780367735593

3RD EDITION

Modern Electric, Hybrid Electric, and Fuel Cell Vehicles



Edited by **Mehrdad Ehsani** Texas A&M University, College Station, USA, **Yimin Gao** Advanced Vehicle Research Center, Danville, Virginia, USA, **Stefano Longo** Cranfield University, UK, **Kambiz Ebrahimi** Loughborough University, UK

The book deals with the fundamentals, theoretical bases, and design methodologies of conventional internal combustion engine (ICE) vehicles, electric vehicles (EVs), hybrid electric vehicles (HEVs), and fuel cell vehicles (FCVs). The design methodology is described in mathematical terms, step-by-step, and the topics are approached from the overall drive train system, not just individual components. Furthermore, in explaining the design methodology of each drive train, design examples are presented with simulation results.

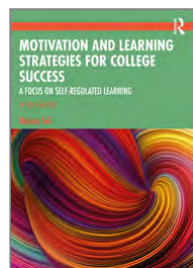
CRC Press
February 2018 : 572pp
Hb: 978-1-498-76177-2 : £145
IEPB: 978-1-138-33049-8 : £55
eBook: 978-0-429-50488-4

* For full contents and more information, visit: www.routledge.com/9781498761772

7TH EDITION

Motivation and Learning Strategies for College Success

A Focus on Self-Regulated Learning

**Helena Seli**

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

Routledge
August 2023 : 304pp
Pb: 978-1-032-47020-7 : **£51.99**
Hb: 978-1-032-47255-3 : **£145**
eBook: 978-1-003-38527-1

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

How to Become a Successful College Student

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



Scotty Dunlap Eastern Kentucky University, USA, **Brian Dudak** Middle Tennessee State University, USA

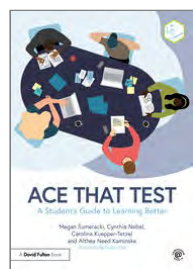
This book is your one-stop shop for the academic tools and habits needed to make your transition from high school to college a resounding success! The shift from high school to college can be a challenge, with many students finding the skills that had previously worked so well no longer seem to be enough.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

Prufrock Press
November 2023 : 202pp
Pb: 978-1-032-52409-2 : **£13.99**
eBook: 978-1-003-41268-7

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

Ace That Test

A Student's Guide to Learning Better



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

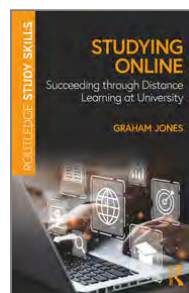
This exciting new text reveals the effective study strategies that will help you to use your time more efficiently, ace your tests, and retain information over time. In full colour and accompanied by beautifully illustrated graphics, *Ace That Test* offers evidence-based learning strategies that students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

Routledge
July 2023 : 146pp
Pb: 978-1-032-35585-6 : **£17.99**
Hb: 978-1-032-35586-3 : **£135**
eBook: 978-1-003-32753-0

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

Studying Online

Succeeding through Distance Learning at University



Graham Jones University of Buckingham, UK

Series: *Routledge Study Skills*

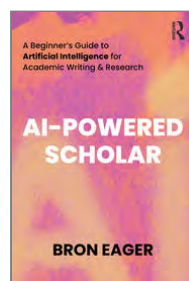
Helping you get to grips with online learning, this book contains a wealth of practical tips and strategies that will make studying online easier. Covering the advantages of online learning as well as the problems you might face, this book provides tried and tested advice to help you overcome those difficulties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

Routledge
July 2022 : 244pp
Pb: 978-1-032-19539-1 : **£16.99**
Hb: 978-1-032-19538-4 : **£125**
eBook: 978-1-003-25969-5

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

AI-Powered Scholar

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



Bron Eager University of Tasmania, Australia

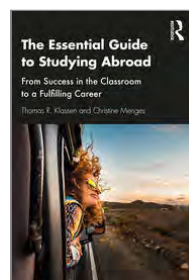
This book is a practical and comprehensive guide on using AI tools to streamline and optimise the academic writing and research process. Through a series of step-by-step instructions and practical tips, this book provides readers with the knowledge and tools they need to leverage the power of AI to produce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

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

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

The Essential Guide to Studying Abroad

From Success in the Classroom to a Fulfilling Career



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

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

Routledge
August 2019 : 238pp
Pb: 978-0-367-23516-1 : **£32.99**
Hb: 978-0-367-23515-4 : **£135**
eBook: 978-0-429-28011-5

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

How to Solve A Problem

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



Kelling J. Donald University of Richmond, USA

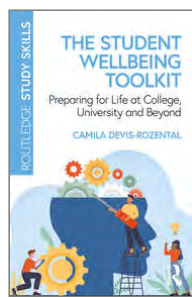
This concise and accessible resource offers new college students, especially those in science degree programs, guidance on engaging successfully with the classroom experience and skillfully tackling technical or scientific questions. The author provides insights on identifying, from the outset, individual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

CRC Press
April 2023 : 152pp
Pb: 978-1-032-20361-4 : **£24.99**
Hb: 978-1-032-20368-3 : **£62.99**
eBook: 978-1-003-26334-0

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

The Student Wellbeing Toolkit

Preparing for Life at College, University and Beyond



Camila Devis-Rozental Bournemouth University, UK

Series: Routledge Study Skills

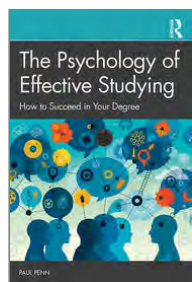
The Student Wellbeing Toolkit puts wellbeing at the centre of your journey into university and beyond. By encouraging self-efficacy and a focus on the things you can control, it provides clear guidance to enhance wellbeing and opportunities for self-reflection that help develop self-awareness and prosocial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

Routledge
June 2023 : 286pp
Pb: 978-1-032-32966-6 : **£17.99**
Hb: 978-1-032-32965-9 : **£145**
eBook: 978-1-003-31754-8

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

The Psychology of Effective Studying

How to Succeed in Your Degree



Paul Penn

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

Routledge
August 2019 : 244pp
Pb: 978-1-138-57092-4 : **£19.99**
Hb: 978-1-138-57090-0 : **£120**
eBook: 978-0-203-70311-3

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

2ND EDITION

Stress, Cognition and Health

Real World Examples and Practical Applications



Tony Cassidy

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

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

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

Making Your Doctoral Research Project Ambitious

Developing Large-Scale Studies with Real-World Impact



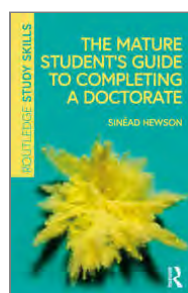
Edited by **Nadia Siddiqui** Durham University, UK,
Stephen Gorard Durham University, UK

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

Routledge
April 2022 : 278pp
Pb: 978-1-032-06245-7 : **£27.99**
Hb: 978-1-032-05975-4 : **£135**
eBook: 978-1-003-20136-6

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The Mature Student's Guide to Completing a Doctorate



Sinéad Hewson

Series: Routledge Study Skills

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

Routledge
April 2024 : 282pp
Pb: 978-1-032-53800-6 : **£16.99**
Hb: 978-1-032-53801-3 : **£135**
eBook: 978-1-003-41369-1

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

The Mature Student's Companion for Successful Undergraduate Study



David Allan Edge Hill University, UK

Series: Routledge Study Skills

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

Routledge

June 2025 : 152pp

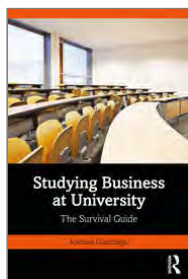
Pb: 978-1-032-61924-8 : **£29.99**

Hb: 978-1-032-61923-1 : **£145**

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Studying Business at University

The Survival Guide



Andreas Giazitzoglou

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

Routledge

March 2025 : 134pp

Pb: 978-1-032-74042-3 : **£39.99**

Hb: 978-1-032-74034-8 : **£145**

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

Academic Writing for University Students



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

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

Routledge
December 2021 : 324pp
Pb: 978-0-367-44539-3 : **£21.99**
Hb: 978-0-367-44538-6 : **£135**
eBook: 978-1-003-01021-0

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

6TH EDITION

Academic Writing

A Handbook for International Students



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

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

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

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

3RD EDITION

Academic Writing for International Students of Business and Economics



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

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

Routledge
January 2020 : 346pp
Pb: 978-0-367-28031-4 : **£27.99**
Hb: 978-0-367-28030-7 : **£135**
eBook: 978-0-429-29927-8

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

2ND EDITION

The Essentials of Academic Writing for International Students



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

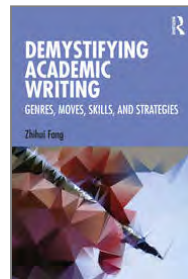
Written to help international students write essays and reports for their English-language university courses, this key title covers the essentials needed to achieve academic writing success. An easy-to-follow course that builds writing confidence and can be used both in the classroom and for self-study,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

Routledge
March 2024 : 252pp
Pb: 978-1-032-72170-5 : **£21.99**
Hb: 978-1-032-72173-6 : **£145**
eBook: 978-1-032-72172-9

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

Demystifying Academic Writing

Genres, Moves, Skills, and Strategies



Zhihui Fang

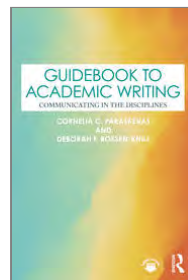
Accessible and informative, this book is designed to enhance the capacity of graduate and undergraduate students, as well as early career scholars, to write for academic purposes. Fang describes the key genres and types of academic writing, explains common rhetorical moves, offers linguistic strategies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

Routledge
April 2021 : 286pp
Pb: 978-0-367-65354-5 : **£38.99**
Hb: 978-0-367-67508-0 : **£135**
eBook: 978-1-003-13161-8

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Guidebook to Academic Writing

Communicating in the Disciplines



Cornelia C. Paraskevas, Deborah F. Rossen-Kniill

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

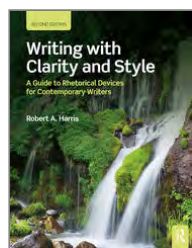
Routledge
July 2024 : 240pp
Pb: 978-1-032-48470-9 : **£37.99**
Hb: 978-1-032-48472-3 : **£145**
eBook: 978-1-003-38924-8

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2ND EDITION

Writing with Clarity and Style

A Guide to Rhetorical Devices for Contemporary Writers

**Robert Harris**

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

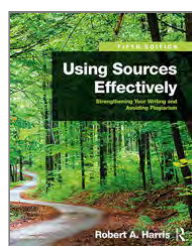
Routledge
December 2017 : 232pp
Pb: 978-1-138-56009-3 : **£36.99**
Hb: 978-1-138-56010-9 : **£135**
eBook: 978-0-203-71204-7

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

5TH EDITION

Using Sources Effectively

Strengthening Your Writing and Avoiding Plagiarism

**Robert Harris**

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

Routledge
January 2017 : 210pp
Pb: 978-1-138-28968-0 : **£54.99**
Hb: 978-1-138-28966-6 : **£165**
eBook: 978-1-315-26706-7

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

2ND EDITION

Renovating Your Writing

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

**Richard Kallan**

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

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

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

Clarity and Coherence in Academic Writing

Using Language as a Resource

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

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

Routledge
March 2023 : 224pp
Pb: 978-1-032-01382-4 : **£26.99**
Hb: 978-1-032-01559-0 : **£125**
eBook: 978-1-003-17909-2

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

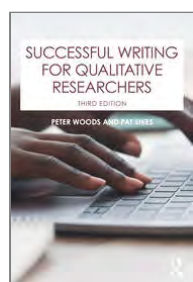
How to Write Qualitative Research**Marcus B. Weaver-Hightower** University of North Dakota, USA

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

Routledge
October 2018 : 282pp
Pb: 978-1-138-06631-1 : **£39.99**
Hb: 978-1-138-06630-4 : **£135**
eBook: 978-1-315-15926-3

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

3RD EDITION

Successful Writing for Qualitative Researchers**Peter Woods , Pat Sikes**

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

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

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

9TH EDITION

Writing Empirical Research Reports

A Basic Guide for Students of the Social and Behavioral Sciences



Melisa C. Galvan California State University, Northridge, USA, **Fred Pyrczak**

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

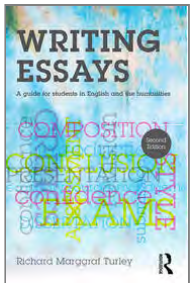
Routledge
October 2023 : 196pp
Pb: 978-1-032-13680-6 : **£56.99**
Hb: 978-1-032-13678-3 : **£135**
eBook: 978-1-003-23041-0

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

2ND EDITION

Writing Essays

A guide for students in English and the humanities



Richard Marggraf Turley Aberystwyth University, Wales.

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

Routledge
November 2015 : 158pp
Pb: 978-1-138-91669-2 : **£19.99**
Hb: 978-1-138-91668-5 : **£135**
eBook: 978-1-315-68944-9

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

8TH EDITION

Writing Literature Reviews

A Guide for Students of the Social and Behavioral Sciences



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

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

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

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

Writing Using Sources for Academic Purposes

Theory, Research and Practice



Rosemary Wette

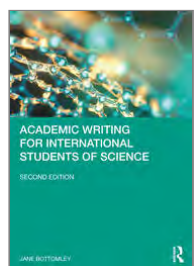
Writing Using Sources for Academic Purposes: Theory, Research and Practice provides research-based information about key components of source-based writing, and the challenges it presents for novices.

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

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

2ND EDITION

Academic Writing for International Students of Science



Jane Bottomley University of Manchester

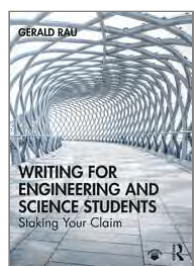
This second edition is an accessible companion designed to help science and technology students develop the knowledge, skills and strategies needed to produce clear and coherent academic writing in their university assignments. Using authentic texts to explore the nature of scientific writing, the book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

Routledge
October 2021 : 220pp
Pb: 978-0-367-63272-4 : **£27.99**
Hb: 978-0-367-63271-7 : **£135**
eBook: 978-1-003-11857-2

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

Writing for Engineering and Science Students

Staking Your Claim



Gerald Rau

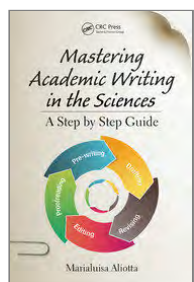
Drawing on his extensive experience of teaching international students, Gerald A. Rau provides a clear "argument structure" for students to follow when undertaking both academic and technical writing. This is the first book to make clear the different structures required for engineering versus scientific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

Routledge
August 2019 : 324pp
Pb: 978-1-138-38825-3 : **£36.99**
Hb: 978-1-138-38824-6 : **£135**
eBook: 978-0-429-42568-4

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

Mastering Academic Writing in the Sciences

A Step-by-Step Guide



Marialuisa Aliotta

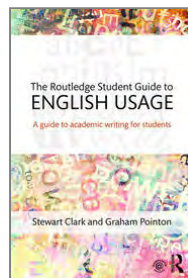
This book provides a comprehensive and coherent step-by-step guide to writing in scientific academic disciplines. It is an invaluable resource for those working on a PhD thesis, research paper, dissertation, or report. Writing these documents can be a long and arduous experience for students and their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

CRC Press
April 2018 : 200pp
Pb: 978-1-498-70147-1 : **£47.99**
Hb: 978-1-138-74288-8 : **£120**
eBook: 978-1-351-00214-1

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

The Routledge Student Guide to English Usage

A guide to academic writing for students



Stewart Clark Norwegian University of Science and Technology, **Graham Pointon**

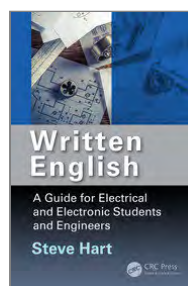
The Routledge Student Guide to English Usage is an authoritative A-Z guide to key aspects of English usage. Covering approximately 4000 carefully selected words, the authors focus on groups of confusable words that sound alike, look alike or are frequently mixed up. Examples of good usage are drawn from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

Routledge
May 2016 : 402pp
Pb: 978-1-138-93359-0 : **£37.99**
Hb: 978-1-138-93358-3 : **£135**
eBook: 978-1-315-67843-6

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

Written English

A Guide for Electrical and Electronic Students and Engineers



Steve Hart English Language Editor and Resource Writer, Cambridge, UK

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

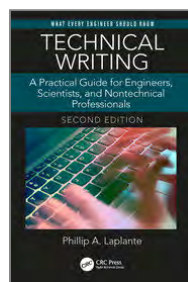
CRC Press
December 2015 : 216pp
Pb: 978-1-498-73962-7 : **£37.99**
Hb: 978-1-138-42241-4 : **£180**
eBook: 978-1-315-21412-2

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

2ND EDITION

Technical Writing

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



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

Series: What Every Engineer Should Know

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

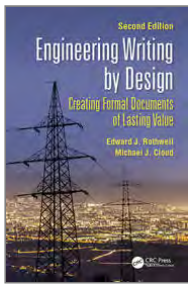
CRC Press
August 2018 : 300pp
Pb: 978-1-138-62810-6 : **£45.99**
Hb: 978-1-138-60696-8 : **£145**
eBook: 978-0-429-46739-4

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

2ND EDITION

Engineering Writing by Design

Creating Formal Documents of Lasting Value, Second Edition



Edward J. Rothwell , Michael J. Cloud

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

CRC Press

January 2020 : 257pp

Pb: 978-0-367-34754-3 : **£49.99**

Hb: 978-0-367-89682-9 : **£105**

eBook: 978-0-429-32769-8

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

50 Things to Think About When Writing a Thesis

Paving Your Own Path to Submission



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

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

Routledge

August 2023 : 136pp

Pb: 978-1-032-34699-1 : **£26.99**

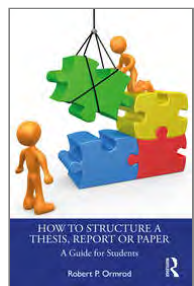
Hb: 978-1-032-34700-4 : **£135**

eBook: 978-1-003-32340-2

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

How to Structure a Thesis, Report or Paper

A Guide for Students



Robert P. Ormrod

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

Routledge

November 2022 : 130pp

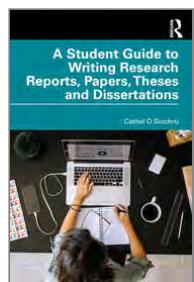
Pb: 978-1-032-36946-4 : **£17.99**

Hb: 978-1-032-36948-8 : **£125**

eBook: 978-1-003-33463-7

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

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



Cathal Ó Siochrú

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

Routledge

November 2022 : 234pp

Pb: 978-0-367-62104-9 : **£19.99**

Hb: 978-0-367-62103-2 : **£125**

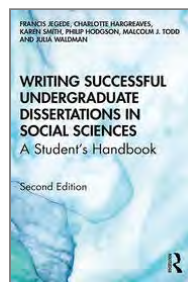
eBook: 978-1-003-10796-5

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

2ND EDITION

Writing Successful Undergraduate Dissertations in Social Sciences

A Student's Handbook



Francis Jegede, Charlotte Hargreaves, Karen Smith, Philip Hodgson, Malcolm J. Todd, and Julia Waldman

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

Routledge

February 2020 : 240pp

Pb: 978-0-367-25525-1 : **£22.99**

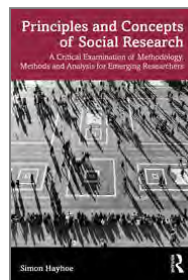
Hb: 978-0-367-25523-7 : **£135**

eBook: 978-0-429-28825-8

* For full contents and more information, visit: www.routledge.com/9780367255251

Principles and Concepts of Social Research

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



Simon Hayhoe University of Exeter, UK.

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

Routledge

December 2022 : 200pp

Pb: 978-1-032-14967-7 : **£33.99**

Hb: 978-1-032-14966-0 : **£125**

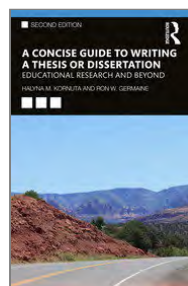
eBook: 978-1-003-24199-7

* For full contents and more information, visit: www.routledge.com/9781032149677

2ND EDITION

A Concise Guide to Writing a Thesis or Dissertation

Educational Research and Beyond



Halyna M. Kornuta, Ron W. Germaine

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

Routledge

May 2019 : 134pp

Pb: 978-0-367-17458-3 : **£17.99**

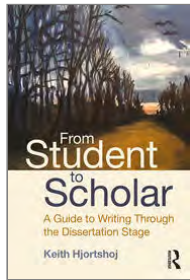
Hb: 978-0-367-17457-6 : **£120**

eBook: 978-0-429-05688-8

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

From Student to Scholar

A Guide to Writing Through the Dissertation Stage



Keith Hjortshoj John S. Knight Writing Program, Cornell University

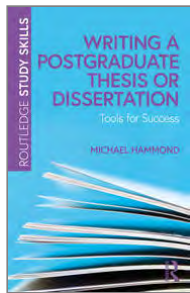
From Student to Scholar guides graduate students through the "hidden" developmental transition required in writing a dissertation and moving beyond, to become a successful scholar. Identifying common rhetorical challenges across disciplines, author Hjortshoj explains how to accommodate evolving audiences,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

Routledge
August 2018 : 204pp
Pb: 978-1-138-56944-7 : **£45.99**
Hb: 978-1-138-56942-3 : **£135**
eBook: 978-0-203-70426-4

* For full contents and more information, visit: www.routledge.com/9781138569447

Writing a Postgraduate Thesis or Dissertation

Tools for Success



Michael Hammond

Series: Routledge Study Skills

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

Routledge
July 2022 : 172pp
Pb: 978-0-367-75282-8 : **£18.99**
Hb: 978-0-367-75281-1 : **£135**
eBook: 978-1-003-16182-0

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

2ND EDITION

Thesis and Dissertation Writing in a Second Language

A Handbook for Students and their Supervisors



Brian Paltridge, Sue Starfield

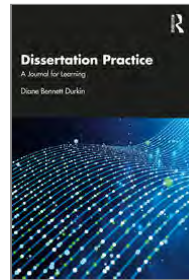
This fully updated edition is the guide for non-native speakers writing a thesis or dissertation in English. It explicitly unpacks academic writing, using accessible language and practical examples and discusses the issues that are crucial to success. These include: understanding the setting and purpose,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

Routledge
August 2019 : 248pp
Pb: 978-1-138-04870-6 : **£28.99**
Hb: 978-1-138-04869-0 : **£125**
eBook: 978-1-315-17002-2

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

Dissertation Practice

A Journal for Learning



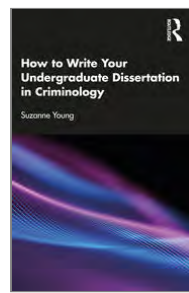
Diane Bennett Durkin

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

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

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

How to Write Your Undergraduate Dissertation in Criminology



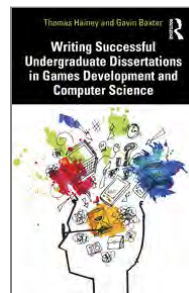
Suzanne Young

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

Routledge
April 2022 : 146pp
Pb: 978-0-367-85999-2 : **£22.99**
Hb: 978-0-367-85998-5 : **£135**
eBook: 978-1-003-01633-5

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

Writing Successful Undergraduate Dissertations in Games Development and Computer Science



Thomas Hainey School of Computing, Engineering and Physical Sciences, University of the West of Scotland,
Gavin Baxter

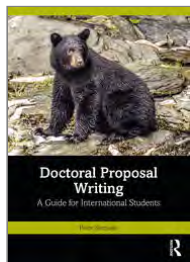
Writing a dissertation in the final year at university can be a daunting task, but particularly if the degree is practically oriented and implementation-based. This book provides a concise guide to producing a dissertation in Computer Science, Software Engineering or Games Development degrees with research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

Routledge
November 2022 : 304pp
Pb: 978-0-367-51708-3 : **£19.99**
Hb: 978-0-367-51707-6 : **£125**
eBook: 978-1-003-05488-7

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

Doctoral Proposal Writing

A Guide for International Students



Peter Samuels

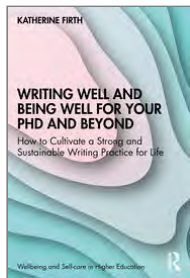
This book is an essential guide for current and prospective international doctoral students wishing to apply and study for a PhD in the UK, and other countries where courses are conducted in English. The book supports students in choosing a suitable research topic and writing an effective proposal for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

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

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

Writing Well and Being Well for Your PhD and Beyond

How to Cultivate a Strong and Sustainable Writing Practice for Life



Katherine Firth University of Melbourne, Australia

Series: Wellbeing and Self-care in Higher Education

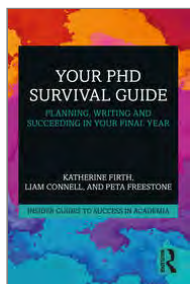
Prioritising wellbeing alongside academic development, this book provides practical advice to help students write well, and be well, during their PhD and throughout their career. Relevant at any stage of the writing process, this book will help doctoral students and early career researchers to produce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

Routledge
September 2023 : 200pp
Pb: 978-1-032-31081-7 : **£21.99**
Hb: 978-1-032-31082-4 : **£135**
eBook: 978-1-003-30794-5

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

Your PhD Survival Guide

Planning, Writing, and Succeeding in Your Final Year



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

Series: Insider Guides to Success in Academia

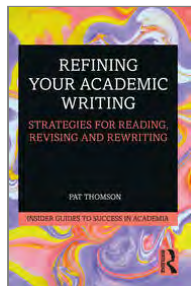
Accessible, insightful and a must-have toolkit for all doctoral students, the founders of the 'Thesis Boot Camp' intensive writing programme show how to survive and thrive through the challenging final year of writing and submitting a thesis. Drawing on an understanding of the intellectual, professional,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

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

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

Refining Your Academic Writing

Strategies for Reading, Revising and Rewriting



Pat Thomson

Series: Insider Guides to Success in Academia

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

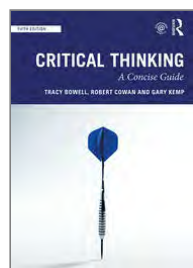
Routledge
December 2022 : 236pp
Pb: 978-0-367-46876-7 : **£18.99**
Hb: 978-0-367-46875-0 : **£125**
eBook: 978-1-003-03168-0

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

5TH EDITION

Critical Thinking

A Concise Guide



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

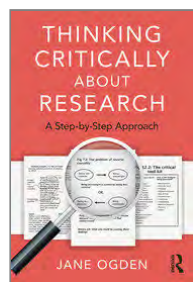
We are frequently confronted with arguments. Critical Thinking equips students with the concepts and techniques used in the analysis and assessment of arguments whatever the context. Through precise and accessible discussion, this book provides the tools to become a successful critical thinker, who can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

Routledge
 August 2019 : 348pp
 Pb: 978-0-815-37143-4 : **£35.99**
 Hb: 978-0-815-37142-7 : **£135**
 eBook: 978-1-351-24373-5

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

Thinking Critically about Research

A Step by Step Approach



Jane Ogden

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

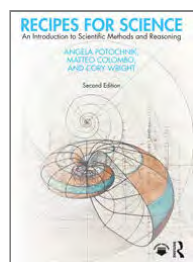
Routledge
 December 2018 : 176pp
 Pb: 978-0-367-00020-2 : **£36.99**
 Hb: 978-0-367-00019-6 : **£135**
 eBook: 978-0-429-44496-8

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

2ND EDITION

Recipes for Science

An Introduction to Scientific Methods and Reasoning



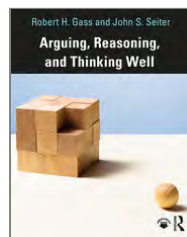
Angela Potochnik, **Matteo Colombo** Tilburg University, The Netherlands, **Cory Wright**

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

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

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

Arguing, Reasoning, and Thinking Well



Robert Gass, **John Seiter**

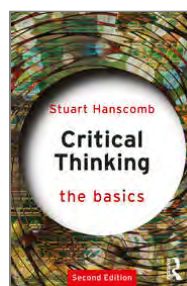
Arguing, Reasoning, and Thinking Well offers an engaging and accessible introduction to argumentation and critical thinking. Authors Gass and Seiter, renowned for their friendly writing style, include real-world examples, hypothetical dialogues, and editorial cartoons to invite readers in. The text includes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

Routledge
 June 2019 : 280pp
 Pb: 978-0-815-37433-6 : **£76.99**
 Hb: 978-0-815-37432-9 : **£155**
 eBook: 978-1-351-24249-3

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

2ND EDITION

Critical Thinking: The Basics



Stuart Hanscomb University of Glasgow, UK

Series: *The Basics*

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

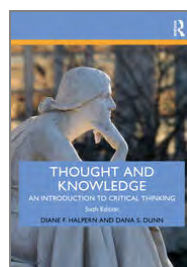
Routledge
 June 2023 : 286pp
 Pb: 978-1-032-16299-7 : **£18.99**
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* For full contents and more information, visit: www.routledge.com/9781032162997

6TH EDITION

Thought and Knowledge

An Introduction to Critical Thinking



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

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

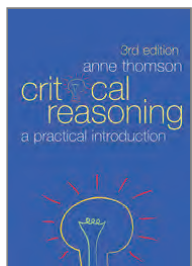
Routledge
 October 2022 : 428pp
 Pb: 978-1-138-65517-1 : **£61.99**
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3RD EDITION

Critical Reasoning

A Practical Introduction

**Anne Thomson**

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

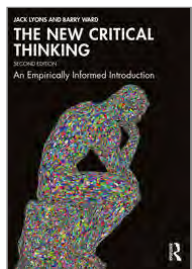
Routledge
September 2008 : 256pp
Pb: 978-0-415-44587-0 : **£36.99**
Hb: 978-0-415-44586-3 : **£135**
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2ND EDITION

The New Critical Thinking

An Empirically Informed Introduction

**Jack Lyons, Barry Ward**

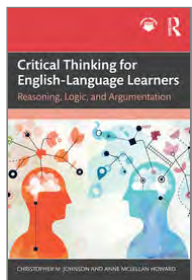
This highly innovative text aims to improve real-world critical thinking, incorporating insights from epistemology and philosophy of science to formulate best practices for assessing information sources and circumnavigate our natural intellectual blind spots. The book covers introductory logic in a way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

Routledge
May 2024 : 412pp
Pb: 978-1-032-31728-1 : **£69.99**
Hb: 978-1-032-31730-4 : **£145**
eBook: 978-1-003-31102-7

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

Critical Thinking for English-Language Learners

Reasoning, Logic, and Argumentation

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

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

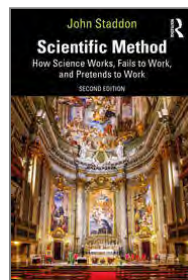
Routledge
February 2025 : 250pp
Pb: 978-1-032-75247-1 : **£39.99**
Hb: 978-1-032-75248-8 : **£145**

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

2ND EDITION

Scientific Method

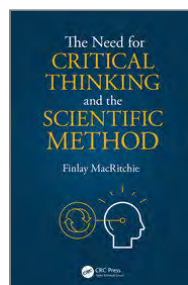
How Science Works, Fails to Work, and Pretends to Work

**John Staddon** Duke University, USA

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

Routledge
June 2024 : 226pp
Pb: 978-1-032-65771-4 : **£31.99**
Hb: 978-1-032-68389-8 : **£145**
eBook: 978-1-032-68387-4

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

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

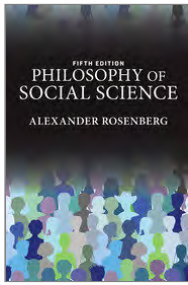
The book exposes many of the misunderstandings about the scientific method and its application to critical thinking. It argues for a better understanding of the scientific method and for nurturing critical thinking in the community. This knowledge helps the reader to analyze issues more objectively,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

CRC Press
May 2018 : 152pp
Pb: 978-0-815-36775-8 : **£43.99**
Hb: 978-0-815-36815-1 : **£145**
eBook: 978-1-351-25587-5

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

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Philosophy of Social Science



Alexander Rosenberg

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

Routledge

July 2015 : 360pp

Pb: 978-0-813-34973-2 : **£43.99**

Hb: 978-0-367-09807-0 : **£135**

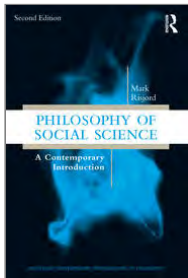
eBook: 978-0-429-49484-0

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2ND EDITION

Philosophy of Social Science

A Contemporary Introduction



Mark Risjord Emory University, USA

Series: Routledge Contemporary Introductions to Philosophy

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Routledge

July 2022 : 336pp

Pb: 978-1-032-07586-0 : **£39.99**

Hb: 978-1-032-07587-7 : **£180**

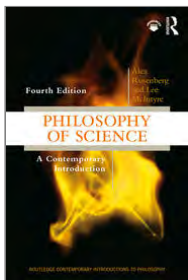
eBook: 978-1-003-20779-5

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4TH EDITION

Philosophy of Science

A Contemporary Introduction



Alex Rosenberg, Lee McIntyre

Series: Routledge Contemporary Introductions to Philosophy

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

Routledge

November 2019 : 308pp

Pb: 978-1-138-33151-8 : **£43.99**

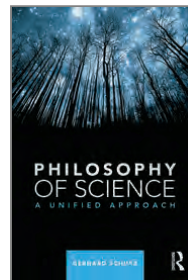
Hb: 978-1-138-33148-8 : **£135**

eBook: 978-0-429-44726-6

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Philosophy of Science

A Unified Approach



Gerhard Schurz Dusseldorf University, Germany

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

Routledge

November 2013 : 480pp

Pb: 978-0-415-82936-6 : **£47.99**

Hb: 978-0-415-82934-2 : **£135**

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Doing Academic Research

A Practical Guide to Research Methods and Analysis



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

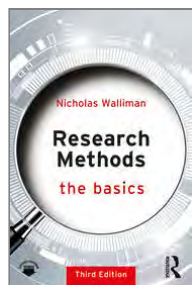
Routledge
May 2019 : 208pp
Pb: 978-0-367-20793-9 : **£17.99**
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Series: The Basics

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

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Research Methods

The Key Concepts



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

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 : **£19.99**
Hb: 978-0-367-17873-4 : **£96.99**
eBook: 978-0-429-05816-5

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The Researcher's Toolkit

The Complete Guide to Practitioner Research



David Wilkinson Research Fellow within the Work-Based Learning Unit at the University of Leeds, **Dennis Dokter**

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

Routledge
May 2023 : 178pp
Pb: 978-1-032-01810-2 : **£26.99**
Hb: 978-1-032-01809-6 : **£135**
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A-Z of Digital Research Methods



Catherine Dawson

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

Routledge
July 2019 : 424pp
Pb: 978-1-138-48680-5 : **£25.99**
Hb: 978-1-138-48679-9 : **£120**
eBook: 978-1-351-04467-7

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11TH EDITION

Understanding Research Methods

An Overview of the Essentials



Michelle Newhart, **Mildred L. Patten**

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

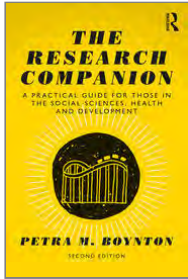
Routledge
June 2023 : 528pp
Pb: 978-0-367-55118-6 : **£91.99**
Hb: 978-0-367-55117-9 : **£240**
eBook: 978-1-003-09204-9

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2ND EDITION

The Research Companion

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



Petra M. Boynton University College London, UK

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

Routledge
September 2016 : 300pp
Pb: 978-1-138-91761-3 : **£47.99**
Hb: 978-1-138-91760-6 : **£135**
eBook: 978-1-315-68890-9

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

Are You Making a Meal Out of Research?

A Recipe for Research Success



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

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

Routledge
May 2023 : 72pp
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Hb: 978-1-032-39230-1 : **£135**
eBook: 978-1-003-34892-4

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Literature Review and Research Design

A Guide to Effective Research Practice



Dave Harris

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

Routledge
December 2019 : 176pp
Pb: 978-0-367-25037-9 : **£25.99**
Hb: 978-0-367-25036-2 : **£120**
eBook: 978-0-429-28566-0

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Principles of Research in Behavioral Science



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

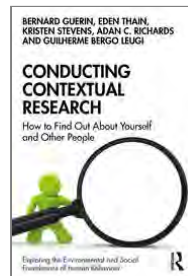
Now in its fifth edition, this invaluable textbook provides a comprehensive overview of research methods in the behavioral sciences, emphasizing the conceptual challenges inherent in scientific inquiry. Organized to mirror each stage of the research process, this text guides readers through the process,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

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

* For full contents and more information, visit: www.routledge.com/9781032720586

Conducting Contextual Research

How to Find Out About Yourself and Other People



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

Series: Exploring the Environmental and Social Foundations of Human Behaviour

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

Routledge
June 2024 : 190pp
Pb: 978-1-032-60818-1 : **£43.99**
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eBook: 978-1-003-46063-3

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Research Methods and Society

Foundations of Social Inquiry



Linda Eberst Dorsten, Lawrence Hotchkiss

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

Routledge
December 2018 : 410pp
Pb: 978-0-815-36615-7 : **£86.99**
Hb: 978-0-815-36616-4 : **£220**
eBook: 978-1-351-25981-1

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2ND EDITION

Social Research Methods by Example

Applications in the Modern World



Yasemin Besen-Cassino, Dan Cassino Fairleigh Dickson University

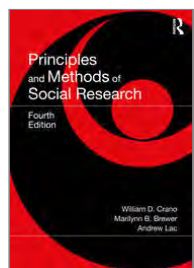
This book sharpens students' understanding of the research process and the essential methods that researchers use to perform their work on the cutting edge of the social sciences. The new edition features updated examples across the chapters, reflecting new directions within the social sciences and both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

Routledge
May 2023 : 342pp
Pb: 978-1-032-20920-3 : **£38.99**
Hb: 978-1-032-21005-6 : **£135**
eBook: 978-1-003-26632-7

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

4TH EDITION

Principles and Methods of Social Research



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

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

Routledge
July 2023 : 486pp
Pb: 978-1-032-22240-0 : **£84.99**
Hb: 978-1-032-22241-7 : **£135**
eBook: 978-1-003-27173-4

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The Illustrated Guide to Social Science Research



Divya Sharma

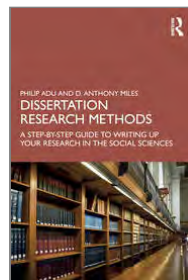
This accessible and engaging textbook helps students to get to grips with key concepts, issues, and practices in social science research through the use of fun and informative illustrations and examples.

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

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

Dissertation Research Methods

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



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

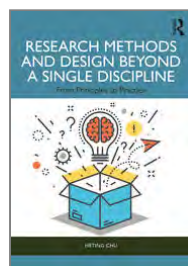
Dissertation Research Methods: A Step-by-Step Guide to Writing Up Your Research in the Social Sciences focuses specifically on methodology when planning, writing and submitting your dissertation thesis. Written by two methodology experts in the social sciences, the book provides a step-by-step guide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

Routledge
September 2023 : 470pp
Pb: 978-1-032-21385-9 : **£42.99**
Hb: 978-1-032-21383-5 : **£145**
eBook: 978-1-003-26815-4

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

Research Methods and Design Beyond a Single Discipline

From Principles to Practice



Heting Chu

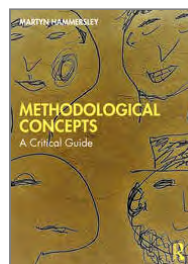
This book presents and discusses 15 research methods after an overview of each, an illustration of the research process and an examination of related topics. The focus of this book is on data collection techniques and research design. This book is essential for masters and doctoral students, and researchers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

Routledge
April 2024 : 360pp
Pb: 978-0-367-89885-4 : **£58.99**
Hb: 978-0-367-89883-0 : **£145**
eBook: 978-1-003-02171-1

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

Methodological Concepts

A Critical Guide



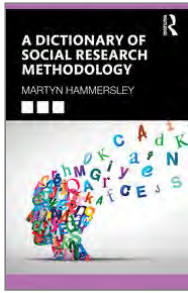
Martyn Hammersley The Open University, UK

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

Routledge
February 2023 : 186pp
Pb: 978-1-032-39574-6 : **£33.99**
Hb: 978-1-032-39573-9 : **£125**
eBook: 978-1-003-35035-4

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

A Dictionary of Social Research Methodology



Martyn Hammersley The Open University, UK

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

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

* For full contents and more information, visit: www.routledge.com/9781032822136

2ND EDITION

Research Design, Second Edition

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



Patricia Leavy

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

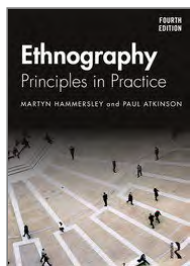
Guilford Press
January 2023 : 323pp
Pb: 978-1-462-54897-2 : **£43.99**
Hb: 978-1-462-55088-3 : **£64.99**

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

4TH EDITION

Ethnography

Principles in Practice



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

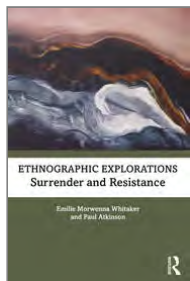
This edition has been expertly updated to reflect the important developments in digital and mobile technologies and social media. The ease with which recordings, audio or video, as well as photographs, can be produced via the use of mobile devices has opened up new tools and foci for ethnographers.

Routledge
April 2019 : 292pp
Pb: 978-1-138-50446-2 : **£39.99**
Hb: 978-1-138-50445-5 : **£150**
eBook: 978-1-315-14602-7

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

Ethnographic Explorations

Surrender and Resistance



Emilie Morwenna Whitaker Salford University, UK, **Paul Atkinson**

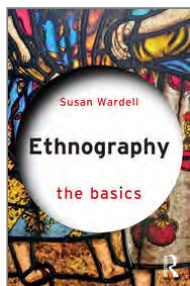
In *Ethnographic Explorations: Surrender and Resistance*, Whitaker and Atkinson, two experienced ethnographers, explore the complexities of fieldwork, analysis and writing from new perspectives. It takes the opportunity to reflect on Ethnography not just as a methodological perspective, but at a fundamental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

Routledge
March 2023 : 184pp
Pb: 978-0-367-17441-5 : **£35.99**
Hb: 978-0-367-17440-8 : **£125**
eBook: 978-0-429-05680-2

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

Ethnography

The Basics



Susan Wardell

Series: The Basics

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

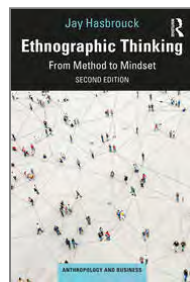
Routledge
April 2025 : 244pp
Pb: 978-1-032-52012-4 : **£18.99**
Hb: 978-1-032-51311-9 : **£130**

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

2ND EDITION

Ethnographic Thinking

From Method to Mindset



Jay Hasbrouck

Series: Anthropology and Business

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

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

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

Ethnographic Research in the Social Sciences

Edited by Madhulika Sahoo, S. Jeyavelu, Anjali Kurane

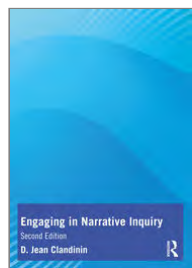
This book is an essential guide to scientifically conducting contemporary ethnographic research at undergraduate, postgraduate and doctoral levels in the social sciences, the humanities, and business studies. It addresses the methodological challenges of ethnographic research across the social sciences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

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

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

2ND EDITION

Engaging in Narrative Inquiry



D. Jean Clandinin

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

Routledge

September 2022 : 176pp

Pb: 978-1-032-14610-2 : **£39.99**

Hb: 978-1-032-14609-6 : **£135**

eBook: 978-1-003-24014-3

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

2ND EDITION

Qualitative Research

The Essential Guide to Theory and Practice



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

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

Routledge

May 2025 : 680pp

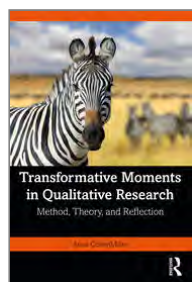
Pb: 978-1-032-77458-9 : **£42.99**

Hb: 978-1-032-77460-2 : **£145**

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

Transformative Moments in Qualitative Research

Method, Theory, and Reflection



Anna Cohen-Miller

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

Routledge

December 2023 : 314pp

Pb: 978-1-032-38170-1 : **£39.99**

Hb: 978-1-032-38168-8 : **£135**

eBook: 978-1-003-34381-3

* For full contents and more information, visit: www.routledge.com/9781032381701

2ND EDITION

Essentials of Qualitative Inquiry



Maria J. Mayan

Series: Qualitative Essentials

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

Routledge

May 2023 : 328pp

Pb: 978-1-629-58327-3 : **£29.99**

Hb: 978-1-629-58326-6 : **£125**

eBook: 978-1-003-38575-2

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

2ND EDITION

Thinking with Theory in Qualitative Research



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

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

Routledge

July 2022 : 170pp

Pb: 978-1-138-95214-0 : **£39.99**

Hb: 978-1-138-95213-3 : **£135**

eBook: 978-1-315-66776-8

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

Qualitative Research Using Social Media



Gwen Bouvier, Joel Rasmussen

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

Routledge

March 2022 : 214pp

Pb: 978-0-367-33347-8 : **£39.99**

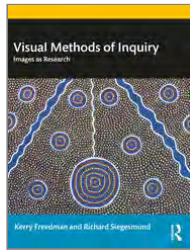
Hb: 978-0-367-33350-8 : **£135**

eBook: 978-0-429-31933-4

* For full contents and more information, visit: www.routledge.com/9780367333478

Visual Methods of Inquiry

Images as Research



Kerry Freedman , Richard Siegesmund

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

Routledge

October 2023 : 238pp

Pb: 978-0-367-25048-5 : **£35.99**

Hb: 978-0-367-25049-2 : **£135**

eBook: 978-0-429-28572-1

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

2ND EDITION

Research Methods for Environmental Studies

A Social Science Approach



Mark Kanazawa Carleton College, USA

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

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

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

Research Methodologies for Business Management



Vanessa Ratten La Trobe University, Australia

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

Routledge
February 2023 : 158pp
Pb: 978-1-032-32337-4 : **£41.99**
Hb: 978-1-032-32338-1 : **£125**
eBook: 978-1-003-31451-6

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

Researching and Analysing Business

Research Methods in Practice



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

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

Routledge
December 2023 : 456pp
Pb: 978-0-367-62065-3 : **£39.99**
Hb: 978-0-367-62064-6 : **£145**
eBook: 978-1-003-10777-4

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

2ND EDITION

Management Research

Applying the Principles of Business Research Methods



Susan Rose, Nigel Spinks, Ana Isabel Canhoto

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

Routledge
December 2023 : 482pp
Pb: 978-1-032-46295-0 : **£51.99**
Hb: 978-1-032-46296-7 : **£175**
eBook: 978-1-003-38100-6

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

2ND EDITION

Design Methods and Practices for Research of Project Management



Edited by Beverly Pasion, Rodney Turner

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

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

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

3RD EDITION

Planning Research in Hospitality and Tourism



Levent Altinay Oxford Brookes University, UK,
Alexandros Paraskevas University of West of London, UK, **Faizan Ali**

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

Routledge
June 2024 : 372pp
Pb: 978-1-032-52258-6 : **£48.99**
Hb: 978-1-032-52257-9 : **£145**
eBook: 978-1-003-40579-5

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

5TH EDITION

Statistics in Plain English

Timothy C. Urdan Santa Clara University, USA

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

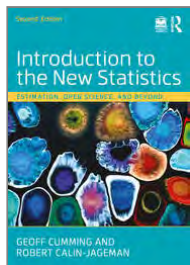
Routledge
March 2022 : 322pp
Pb: 978-0-367-34283-8 : **£33.99**
Hb: 978-0-367-34282-1 : **£175**
eBook: 978-1-032-22944-7 : **£33.99**

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

2ND EDITION

Introduction to the New Statistics

Estimation, Open Science, and Beyond



Geoff Cumming, Robert Calin-Jageman

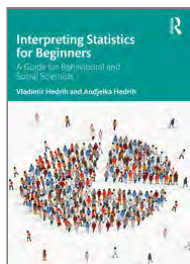
This fully revised and updated second edition is an essential introduction to inferential statistics. It is the first introductory statistics text to use an estimation approach with meta-analysis ("the new statistics") from the start and also to explain the new and exciting Open Science practices, which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

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

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

Interpreting Statistics for Beginners

A Guide for Behavioural and Social Scientists



Vladimir Hedrih, Andjelka Hedrih

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

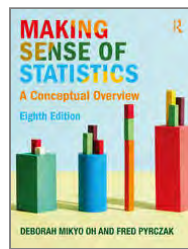
Routledge
February 2022 : 204pp
Pb: 978-0-367-61852-0 : **£35.99**
Hb: 978-0-367-62051-6 : **£135**
eBook: 978-1-003-10771-2

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

8TH EDITION

Making Sense of Statistics

A Conceptual Overview



Deborah M. Oh, Fred Pyrczak

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

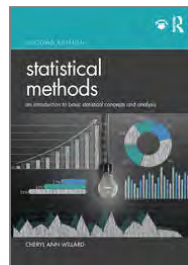
Routledge
June 2023 : 284pp
Pb: 978-1-032-28964-9 : **£49.99**
Hb: 978-1-032-28962-5 : **£135**
eBook: 978-1-003-29935-6

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

2ND EDITION

Statistical Methods

An Introduction to Basic Statistical Concepts and Analysis



Cheryl Ann Willard

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

Routledge
March 2020 : 364pp
Pb: 978-0-367-20352-8 : **£54.99**
Hb: 978-0-367-20351-1 : **£175**
eBook: 978-0-429-26103-9

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

9TH EDITION

Interpreting Basic Statistics

A Workbook Based on Excerpts from Journal Articles



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

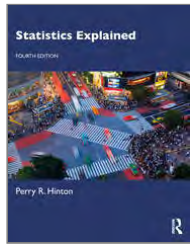
Interpreting Basic Statistics gives students valuable practice in interpreting statistical reporting as it actually appears in peer-reviewed journals. The questions in each exercise are divided into two parts: (1) Factual Questions and (2) Questions for Discussion. The factual questions require careful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

Routledge
September 2021 : 258pp
Pb: 978-0-367-56197-0 : **£58.99**
Hb: 978-0-367-56051-5 : **£180**
eBook: 978-1-003-09676-4

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

4TH EDITION

Statistics Explained



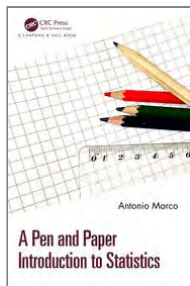
Perry R. Hinton Warwick University, UK

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

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

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

A Pen and Paper Introduction to Statistics



Antonio Marco University of Essex, U.K.

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

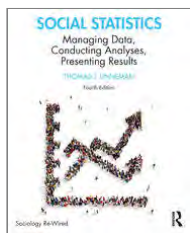
Chapman & Hall
December 2023 : 160pp
Pb: 978-1-032-50510-7 : **£33.99**
Hb: 978-1-032-50511-4 : **£97.99**
eBook: 978-1-003-39882-0

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

4TH EDITION

Social Statistics

Managing Data, Conducting Analyses, Presenting Results



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

Series: Sociology Re-Wired

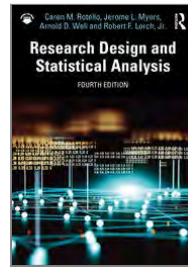
With a clear, engaging writing style and fascinating examples using a variety of real data, this text covers the contemporary statistical techniques that students will encounter in the world of social research. It covers these techniques at an introductory level and carefully guides students through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

Routledge
December 2021 : 678pp
Pb: 978-1-032-11528-3 : **£96.99**
Hb: 978-1-032-11623-5 : **£180**
eBook: 978-1-003-22077-0

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

4TH EDITION

Research Design and Statistical Analysis



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

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

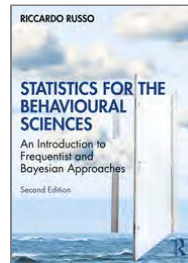
Routledge
January 2025 : 834pp
Pb: 978-1-032-89728-8 : **£76.99**
Hb: 978-1-032-59210-7 : **£145**
eBook: 978-1-003-45355-0

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

2ND EDITION

Statistics for the Behavioural Sciences

An Introduction to Frequentist and Bayesian Approaches



Riccardo Russo

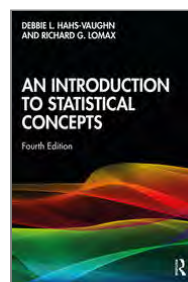
This accessible textbook is for those without a mathematical background (just some notions of basic algebra are sufficient) and provides a comprehensive introduction to all topics covered in introductory behavioural science statistics courses. This timely and highly readable text will be invaluable to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

Routledge
November 2020 : 330pp
Pb: 978-1-138-71150-1 : **£35.99**
Hb: 978-1-138-71148-8 : **£135**
eBook: 978-1-315-20041-5

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

4TH EDITION

An Introduction to Statistical Concepts



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

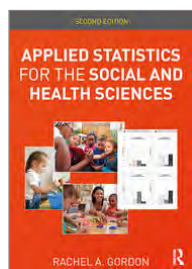
This comprehensive, flexible text is used in both one- and two-semester courses to review introductory through intermediate statistics. Instructors select the topics that are most appropriate for their course. Its conceptual approach helps students more easily understand the concepts and interpret SPSS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

Routledge
February 2020 : 1186pp
Hb: 978-1-138-65055-8 : **£115**
eBook: 978-1-315-62435-8

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

2ND EDITION

Applied Statistics for the Social and Health Sciences



Rachel A. Gordon Northern Illinois University, USA

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

Routledge

July 2023 : 800pp

Pb: 978-1-032-32344-2 : **£43.99**

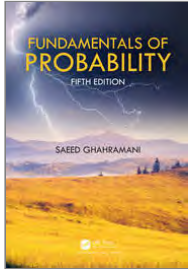
Hb: 978-1-032-32343-5 : **£145**

eBook: 978-1-003-31453-0

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

5TH EDITION

Fundamentals of Probability



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

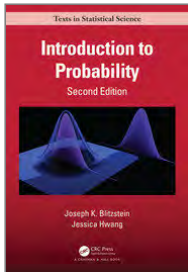
This one- or two-term calculus-based basic probability text is written for majors in mathematics, physical sciences, engineering, statistics, actuarial science, business and finance, operations research, and computer science. It presents probability in a natural way: through interesting and instructive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

Chapman & Hall
May 2024 : 700pp
Hb: 978-1-032-36608-1 : **£120**
IEPB: 978-1-032-80353-1 : **£49.99**
eBook: 978-1-003-33289-3

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

2ND EDITION

Introduction to Probability, Second Edition



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

Series: Chapman & Hall/CRC Texts in Statistical Science

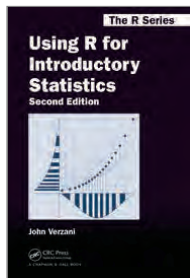
Undergraduate probability book that assumes one-semester of calculus. One key is the emphasis on "stories" for the probability distributions (which I mean in both an intuitive and technical sense): there are a dozen or so key distributions (Normal, Binomial, Poisson, etc.) that are incredibly widely-used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

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

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

2ND EDITION

Using R for Introductory Statistics



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

Series: Chapman & Hall/CRC The R Series

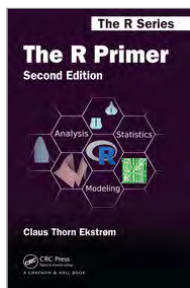
The second edition of a bestselling textbook, *Using R for Introductory Statistics* guides students through the basics of R, helping them overcome the sometimes steep learning curve. The author does this by breaking the material down into small, task-oriented steps. The second edition maintains the features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

Chapman & Hall
June 2014 : 518pp
Hb: 978-1-466-59073-1 : **£61.99**
eBook: 978-1-315-37308-9

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

2ND EDITION

R Primer



Claus Thorn Ekström University of Copenhagen, Denmark

Series: Chapman & Hall/CRC The R Series

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

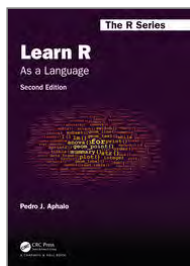
Chapman & Hall
March 2017 : 426pp
Pb: 978-1-138-63197-7 : **£53.99**
Hb: 978-1-498-77255-6 : **£110**
eBook: 978-1-315-15441-1

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

2ND EDITION

Learn R

As a Language



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

Series: Chapman & Hall/CRC The R Series

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

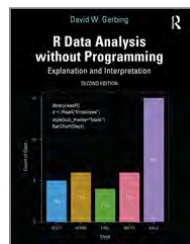
Chapman & Hall
April 2024 : 466pp
Pb: 978-1-032-51699-8 : **£63.99**
Hb: 978-1-032-51843-5 : **£165**
eBook: 978-1-003-40418-7

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

2ND EDITION

R Data Analysis without Programming

Explanation and Interpretation



David W. Gerbing Portland State University, USA

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

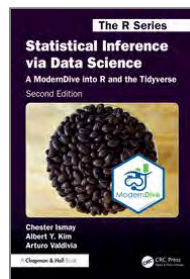
Routledge
January 2023 : 378pp
Pb: 978-1-032-24403-7 : **£49.99**
Hb: 978-1-032-24402-0 : **£125**
eBook: 978-1-003-27841-2

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

2ND EDITION

Statistical Inference via Data Science

A ModernDive into R and the Tidyverse



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

Series: Chapman & Hall/CRC The R Series

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

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

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

3RD EDITION

SPSS Explained

Perry R. Hinton Warwick University, UK, **Isabella McMurray** University of Bedfordshire, UK, **Charlotte Brownlow**, **Peter C. Terry**

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

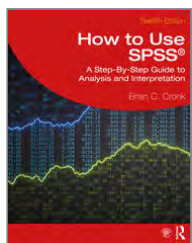
Routledge
September 2023 : 386pp
Pb: 978-0-367-36699-5 : **£49.99**
Hb: 978-0-367-36698-8 : **£135**
eBook: 978-0-429-35086-3

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

12TH EDITION

How to Use SPSS®

A Step-By-Step Guide to Analysis and Interpretation



Brian C. Cronk

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

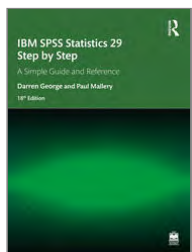
Routledge
January 2024 : 252pp
Pb: 978-1-032-58235-1 : **£61.99**
Hb: 978-1-032-58519-2 : **£145**
eBook: 978-1-003-45046-7

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

18TH EDITION

IBM SPSS Statistics 29 Step by Step

A Simple Guide and Reference



Darren George, **Paul Mallery**

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

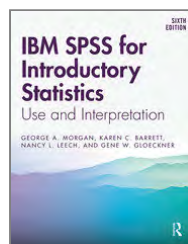
Routledge
March 2024 : 440pp
Pb: 978-1-032-62193-7 : **£71.99**
Hb: 978-1-032-62212-5 : **£220**
eBook: 978-1-032-62215-6

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

6TH EDITION

IBM SPSS for Introductory Statistics

Use and Interpretation, Sixth Edition

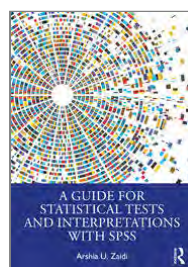


George A. Morgan Colorado State University, USA, **Karen C. Barrett** Colorado State University, USA, **Nancy L. Leech** University of Colorado at Denver, USA, **Gene W. Gloeckner** Colorado State University, USA

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

Routledge
July 2019 : 266pp
Pb: 978-1-138-57821-0 : **£39.99**
Hb: 978-1-138-57822-7 : **£155**
eBook: 978-0-429-28765-7

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

A Guide for Statistical Tests and Interpretations with SPSS

Arshia U. Zaidi

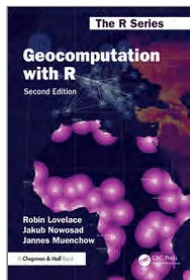
A Guide for Statistical Tests and Interpretations with SPSS is designed for students taking basic and advanced courses in statistics, taking an integrative and practical approach to learning statistics. It guides students through navigating SPSS outputs and writing quantitatively, dealing with technical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

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

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

2ND EDITION

Geocomputation with R



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

Series: Chapman & Hall/CRC The R Series

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

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

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

Geocomputation with Python



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

Series: Chapman & Hall/CRC The Python Series

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

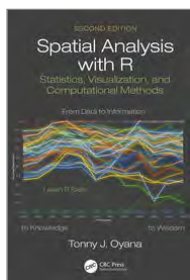
Chapman & Hall
February 2025 : 344pp
Pb: 978-1-032-46065-9 : **£55.99**
Hb: 978-1-032-45891-5 : **£150**
eBook: 978-1-003-37991-1

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

2ND EDITION

Spatial Analysis with R

Statistics, Visualization, and Computational Methods



Tonny J. Oyana

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

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

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

Data Analytics for the Social Sciences

Applications in R



G. David Garson

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

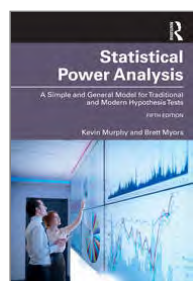
Routledge
November 2021 : 704pp
Pb: 978-0-367-62427-9 : **£84.99**
Hb: 978-0-367-62429-3 : **£240**
eBook: 978-1-003-10939-6

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

5TH EDITION

Statistical Power Analysis

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



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

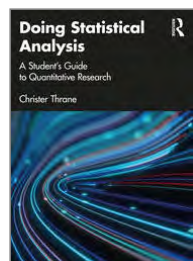
Statistical Power Analysis explains the key concepts in statistical power analysis and illustrates their application in both tests of traditional null hypotheses. It provides readers with the tools to understand and perform power analyses for virtually all the statistical methods used in the social and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

Routledge
March 2023 : 224pp
Pb: 978-1-032-28300-5 : **£51.99**
Hb: 978-1-032-28301-2 : **£125**
eBook: 978-1-003-29622-5

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

Doing Statistical Analysis

A Student's Guide to Quantitative Research



Christer Thrane

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

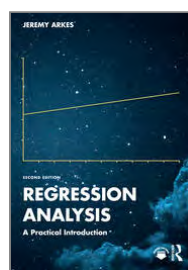
Routledge
July 2022 : 266pp
Pb: 978-1-032-17132-6 : **£49.99**
Hb: 978-1-032-18030-4 : **£135**
eBook: 978-1-003-25255-9

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

2ND EDITION

Regression Analysis

A Practical Introduction



Jeremy Arkes

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

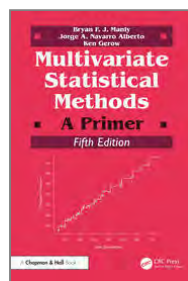
Routledge
January 2023 : 412pp
Pb: 978-1-032-25783-9 : **£39.99**
Hb: 978-1-032-25784-6 : **£125**
eBook: 978-1-003-28500-7

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

5TH EDITION

Multivariate Statistical Methods

A Primer



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

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

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

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

3RD EDITION

Multilevel and Longitudinal Modeling with IBM SPSS



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

Series: Quantitative Methodology Series

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

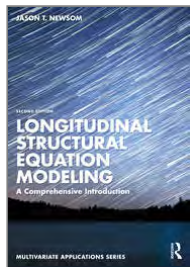
Routledge
April 2022 : 494pp
Pb: 978-0-367-42461-9 : **£47.99**
Hb: 978-0-367-42460-2 : **£165**
eBook: 978-0-367-82427-3

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

2ND EDITION

Longitudinal Structural Equation Modeling

A Comprehensive Introduction



Jason T. Newsom Portland State University, USA

Series: Multivariate Applications Series

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

Routledge

October 2023 : 522pp

Pb: 978-1-032-20286-0 : **£71.99**

Hb: 978-1-032-20283-9 : **£135**

eBook: 978-1-003-26303-6

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

7TH EDITION

Advanced and Multivariate Statistical Methods

Practical Application and Interpretation



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

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

Routledge

November 2021 : 350pp

Pb: 978-0-367-49747-7 : **£135**

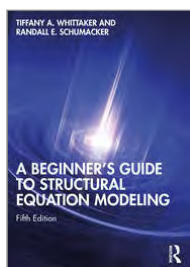
Hb: 978-0-367-49720-0 : **£350**

eBook: 978-1-003-04722-3

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

5TH EDITION

A Beginner's Guide to Structural Equation Modeling



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

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

Routledge

May 2022 : 418pp

Pb: 978-0-367-47796-7 : **£68.99**

Hb: 978-0-367-49015-7 : **£135**

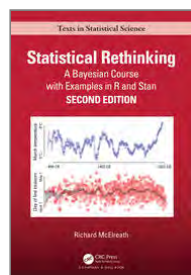
eBook: 978-1-003-04401-7

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

2ND EDITION

Statistical Rethinking

A Bayesian Course with Examples in R and STAN



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

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

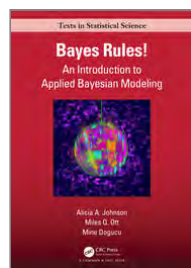
The very popular *Statistical Rethinking: A Bayesian Course with Examples in R and Stan*, Second Edition builds readers' knowledge of and confidence in statistical modeling. Reflecting the need for even minor programming in today's model-based statistics, the book pushes readers to perform step-by-step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

Chapman & Hall
March 2020 : 612pp
Hb: 978-0-367-13991-9 : £76.99
eBook: 978-0-429-02960-8

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

Bayes Rules!

An Introduction to Applied Bayesian Modeling



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

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

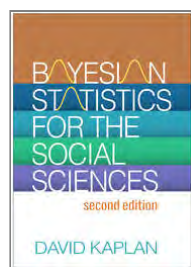
An engaging, sophisticated, and fun introduction to the field of Bayesian Statistics, *Bayes Rules! An Introduction to Bayesian Modeling with R* brings the power of modern Bayesian thinking, modeling, and computing to a broad audience. In particular, it is an ideal resource for advanced undergraduate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

Chapman & Hall
March 2022 : 544pp
Pb: 978-0-367-25539-8 : £61.99
Hb: 978-1-032-19159-1 : £175
eBook: 978-0-429-28834-0

* For full contents and more information, visit: www.routledge.com/9780367255398

2ND EDITION

Bayesian Statistics for the Social Sciences, Second Edition



David Kaplan University of Wisconsin–Madison, United States

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

Guilford Press
December 2023 : 250pp
Hb: 978-1-462-55354-9 : £59.99

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

2ND EDITION

The Effect

An Introduction to Research Design and Causality



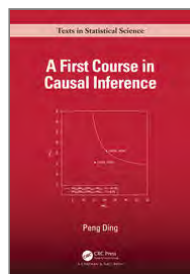
Nick Huntington-Klein

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

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

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

A First Course in Causal Inference



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

Series: Chapman & Hall/CRC Texts in Statistical Science

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

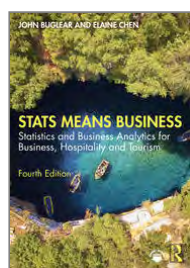
Chapman & Hall
July 2024 : 448pp
Hb: 978-1-032-75862-6 : **£64.99**
eBook: 978-1-003-48408-0

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

4TH EDITION

Stats Means Business

Statistics and Business Analytics for Business, Hospitality and Tourism



John Buglear, Elaine Chen

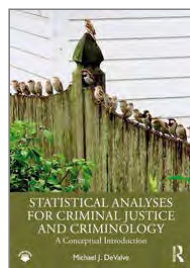
Stats Means Business is an introductory and comprehensive textbook written especially for Hospitality, Business and Tourism students who take statistics or quantitative methods modules. By minimising technical language, providing clear definitions of key terms and giving emphasis to interpretation rather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

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

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

Statistical Analyses for Criminal Justice and Criminology

A Conceptual Introduction



Michael J. DeValve

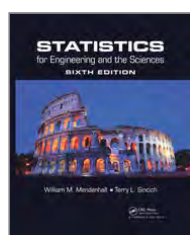
This book is a how-to guide for statistical analyses designed for undergraduates and others new to the subject. Written in an easy-going and clear style, the book uses policing data to illustrate concepts and includes a short narrative at the beginning of each chapter to engage readers. Easily identified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

Routledge
June 2024 : 194pp
Pb: 978-1-032-63854-6 : **£37.99**
Hb: 978-1-032-63858-4 : **£145**
eBook: 978-1-032-63859-1

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

6TH EDITION

Statistics for Engineering and the Sciences



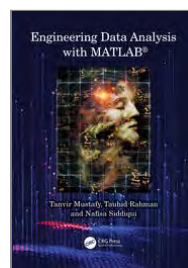
William M. Mendenhall, Terry L. Sincich

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

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

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

Engineering Data Analysis with MATLAB®



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

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

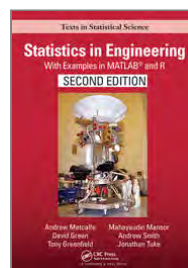
CRC Press
December 2024 : 902pp
Pb: 978-1-032-50771-2 : **£71.99**
Hb: 978-1-032-50658-6 : **£145**
eBook: 978-1-003-39958-2

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

2ND EDITION

Statistics in Engineering

With Examples in MATLAB® and R, Second Edition



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

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

Chapman & Hall
June 2020 : 810pp
Pb: 978-0-367-57062-0 : **£45.99**
Hb: 978-1-439-89547-4 : **£86.99**
eBook: 978-1-315-11723-2

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

Data Science

A First Introduction



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

Series: Chapman & Hall/CRC Data Science Series

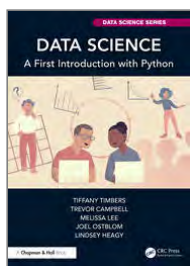
Data Science: A First Introduction focuses on using the R programming language in Jupyter notebooks to perform data manipulation and cleaning, create effective visualizations, and extract insights from data using classification, regression, clustering, and inference. The text emphasizes workflows that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

Chapman & Hall
July 2022 : 456pp
Pb: 978-0-367-52468-5 : **£49.99**
Hb: 978-0-367-53217-8 : **£125**
eBook: 978-1-003-08097-8

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

Data Science

A First Introduction with Python



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

Series: Chapman & Hall/CRC Data Science Series

This book focuses on using the Python programming language in Jupyter notebooks to perform data manipulation and cleaning, create effective visualizations, and extract insights from data using classification, regression, clustering, and inference. The text emphasizes workflows that are clear, reproducible, and shareable, and includes coverage of the basics of version control. All source code is available online, demonstrating the use of good reproducible project workflows. The book is designed for learners from all disciplines with minimal prior knowledge of mathematics and programming. The authors have honed the material through years of experience teaching.

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

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

A Tour of Data Science

Learn R and Python in Parallel



Nailong Zhang

Series: Chapman & Hall/CRC Data Science Series

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

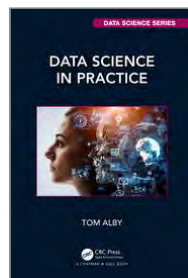
Chapman & Hall
November 2020 : 216pp
Pb: 978-0-367-89586-0 : **£48.99**
Hb: 978-0-367-89706-2 : **£130**
eBook: 978-1-003-02064-6

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

Data Science in Practice

Tom Alby

Series: Chapman & Hall/CRC Data Science Series



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

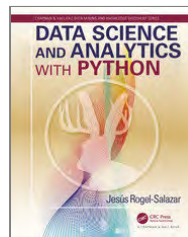
Chapman & Hall
September 2023 : 318pp
Pb: 978-1-032-50526-8 : **£56.99**
Hb: 978-1-032-50524-4 : **£145**
eBook: 978-1-003-42636-3

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

Data Science and Analytics with Python

Jesus Rogel-Salazar Imperial College London, UK

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



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

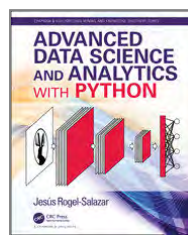
Chapman & Hall
August 2017 : 412pp
Pb: 978-1-498-74209-2 : **£49.99**
Hb: 978-1-138-04317-6 : **£105**
eBook: 978-1-315-15167-0

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

Advanced Data Science and Analytics with Python

Jesus Rogel-Salazar Imperial College London, UK

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



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

Chapman & Hall
May 2020 : 424pp
Pb: 978-1-138-31506-8 : **£46.99**
Hb: 978-0-429-44661-0 : **£100**
eBook: 978-0-429-44664-1

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

Foundations of Data Science with Python



John M. Shea

Series: Chapman & Hall/CRC The Python Series

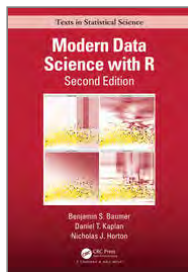
Foundations of Data Science with Python introduces readers to the fundamentals of data science, including data manipulation and visualization, probability, statistics, and dimensionality reduction. This book is targeted toward engineers and scientists, but it should be readily understandable to anyone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

Chapman & Hall
February 2024 : 496pp
Pb: 978-1-032-35042-4 : **£73.99**
Hb: 978-1-032-34674-8 : **£190**
eBook: 978-1-003-32499-7

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

2ND EDITION

Modern Data Science with R



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

Series: Chapman & Hall/CRC Texts in Statistical Science

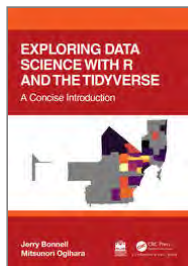
New data technologies and database systems facilitate scraping data and merging information from different sources and formats and restructuring data into a form suitable for analysis. State-of-the-art workflow and tools foster well-documented and reproducible analysis. Modern statistical methods allow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

Chapman & Hall
April 2021 : 650pp
Hb: 978-0-367-19149-8 : **£84.99**
eBook: 978-0-429-20071-7

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

Exploring Data Science with R and the Tidyverse

A Concise Introduction



Jerry Bonnell, **Mitsunori Ogihara** University of Miami,
Coral Gables, Florida, USA

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

Chapman & Hall
August 2023 : 492pp
Pb: 978-1-032-34170-5 : **£76.99**
Hb: 978-1-032-32950-5 : **£195**
eBook: 978-1-003-32084-5

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

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



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

Series: Chapman & Hall/CRC The R Series

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

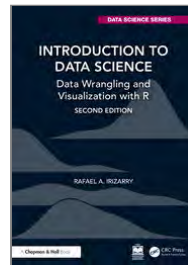
Chapman & Hall
December 2019 : 460pp
Pb: 978-0-367-40982-1 : **£68.99**
Hb: 978-0-367-40987-6 : **£175**
eBook: 978-0-367-40991-3

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

2ND EDITION

Introduction to Data Science

Data Wrangling and Visualization with R



Rafael A. Irizarry

Series: Chapman & Hall/CRC Data Science Series

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

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

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

Telling Stories with Data

With Applications in R



Rohan Alexander

Series: Chapman & Hall/CRC Data Science Series

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

Chapman & Hall
July 2023 : 622pp
Hb: 978-1-032-13477-2 : **£76.99**
eBook: 978-1-003-22940-7

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

Practitioner's Guide to Data Science



Hui Lin , Ming Li

Series: Chapman & Hall/CRC Data Science Series

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

Chapman & Hall
May 2023 : 402pp
Pb: 978-0-815-35439-0 : **£54.99**
Hb: 978-0-815-35447-5 : **£145**
eBook: 978-1-351-13291-6

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

2ND EDITION

Big Data and Social Science

Data Science Methods and Tools for Research and Practice



Edited by **Ian Foster** University of Chicago, Illinois, USA, **Rayid Ghani** University of Chicago, Illinois, USA, **Ron S. Jarmin** , **Frauke Kreuter** University of Maryland, USA; University of Mannheim, Germany; and Institute for Employment Research, Germany, **Julia Lane** New York University; American Institutes for Research, USA

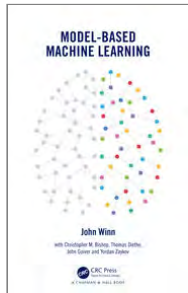
Series: Chapman & Hall/CRC Statistics in the Social and Behavioral Sciences

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

Chapman & Hall
November 2020 : 412pp
Pb: 978-0-367-56859-7 : **£54.99**
Hb: 978-0-367-34187-9 : **£135**
eBook: 978-0-429-32438-3

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

Model-Based Machine Learning



John Winn Microsoft Research Ltd., Cambridge, United Kingdom

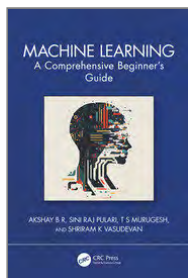
Machine learning is being applied to a growing variety of problems in a variety of domains. A fundamental challenge when using machine learning is connecting the abstract mathematics of a machine learning technique to real world problems. This book tackles this through model-based machine learning, focusing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

Chapman & Hall
October 2023 : 468pp
Hb: 978-1-498-75681-5 : **£71.99**
eBook: 978-0-429-19268-5

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

Machine Learning

A Comprehensive Beginner's Guide



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

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

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

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

Applied Machine Learning Using mlr3 in R



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

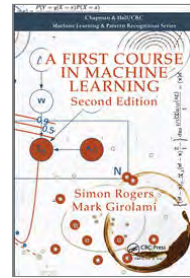
mlr3 is an award-winning ecosystem of R packages that have been developed to enable state-of-the-art machine learning capabilities in R. This book gives an overview of flexible and robust machine learning methods, with an emphasis on how to implement them using mlr3 in R. It covers many key topics, including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

Chapman & Hall
January 2024 : 356pp
Pb: 978-1-032-50754-5 : **£63.99**
Hb: 978-1-032-51567-0 : **£165**
eBook: 978-1-003-40284-8

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

2ND EDITION

A First Course in Machine Learning



Simon Rogers, Mark Girolami

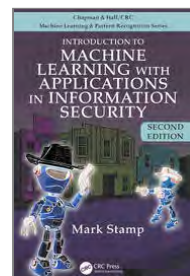
The new edition of this popular, undergraduate textbook has been revised and updated to reflect current growth areas in Machine Learning. The new edition includes three new chapters with more detailed discussion of Markov Chain Monte Carlo techniques, Classification and Regression with Gaussian Processes,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

Chapman & Hall
June 2020 : 428pp
Pb: 978-0-367-57464-2 : **£39.99**
Hb: 978-1-498-73848-4 : **£64.99**
eBook: 978-1-315-38215-9

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

2ND EDITION

Introduction to Machine Learning with Applications in Information Security



Mark Stamp Department of Computer Science, San Jose State University

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

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

Chapman & Hall
December 2024 : 548pp
Pb: 978-1-032-20717-9 : **£44.99**
Hb: 978-1-032-20492-5 : **£62.99**
eBook: 978-1-003-26487-3

* For full contents and more information, visit: www.routledge.com/9781032207179

Machine Learning Toolbox for Social Scientists

Applied Predictive Analytics with R



Yigit Aydede Professor, Saint Mary's University

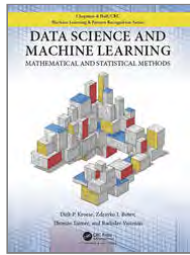
Machine Learning Toolbox for Social Scientists covers predictive methods with complementary statistical "tools" that make it mostly self-contained. The inferential statistics is the traditional framework for most data analytics courses in social science and business fields, especially in Economics and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

Chapman & Hall
September 2023 : 600pp
Hb: 978-1-032-46395-7 : **£81.99**
eBook: 978-1-003-38150-1

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

Data Science and Machine Learning

Mathematical and Statistical Methods



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

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

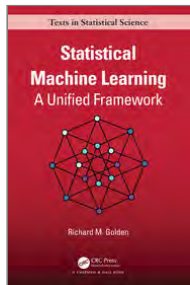
The purpose of this book is to provide an accessible, comprehensive textbook in data science and machine learning. The book will provide a solid basis in linear algebra, optimization, probability, and statistics. The main body will discuss the major topics in machine learning and data science: data manipulation,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

Chapman & Hall
November 2019 : 538pp
Hb: 978-1-138-49253-0 : **£86.99**
eBook: 978-0-367-81697-1

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

Statistical Machine Learning

A Unified Framework



Richard Golden

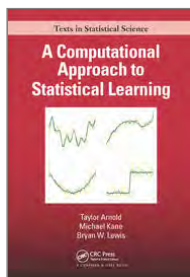
Series: Chapman & Hall/CRC Texts in Statistical Science

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

Chapman & Hall
July 2020 : 524pp
Hb: 978-1-138-48469-6 : **£105**
eBook: 978-1-351-05150-7

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

A Computational Approach to Statistical Learning



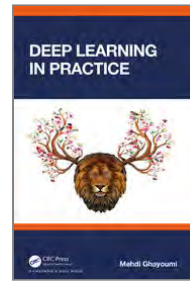
Taylor Arnold, Michael Kane, Bryan W. Lewis

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

Chapman & Hall
June 2020 : 374pp
Pb: 978-0-367-57061-3 : **£45.99**
Hb: 978-1-138-04637-5 : **£76.99**
eBook: 978-1-315-17140-1

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

Deep Learning in Practice



Mehdi Ghayoumi University of San Diego

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

Chapman & Hall
December 2021 : 218pp
Hb: 978-0-367-45862-1 : **£74.99**
eBook: 978-1-003-02581-8

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

Deep Learning for Engineers



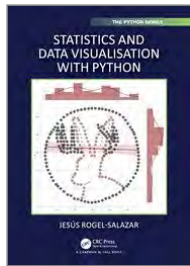
Tariq M. Arif Weber State University Ogden, UT, **Md**
Adilur Rahim Louisiana State University Baton Rouge, LA

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

Chapman & Hall
February 2024 : 170pp
Pb: 978-1-032-51581-6 : **£49.99**
Hb: 978-1-032-50473-5 : **£89.99**
eBook: 978-1-003-40292-3

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

Statistics and Data Visualisation with Python



Jesus Rogel-Salazar Imperial College London, UK

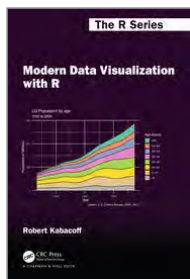
Series: Chapman & Hall/CRC The Python Series

Statistics and Data Visualisation with Python aims to build statistical knowledge from the ground up by enabling the reader to understand the ideas behind inferential statistics, and begin to formulate hypotheses that form the foundations for the applications and algorithms in statistical analysis, business analytics, machine learning and applied machine learning. This book is intended to serve as a bridge in statistics for graduates and business practitioners interested in using their skills in the area of statistical science, and data science and analytics, acting as a refresher for readers that have taken some courses in statistics, but not necessarily use it in their daily work.

Chapman & Hall
January 2023 : 554pp
Pb: 978-0-367-74451-9 : **£44.99**
Hb: 978-0-367-74936-1 : **£120**
eBook: 978-1-003-16035-9

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

Modern Data Visualization with R



Robert Kabacoff

Series: Chapman & Hall/CRC The R Series

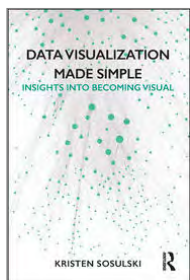
Describes ways that raw and summary data can be turned into visualizations that convey meaningful insights: basic graphs, bar charts, scatter plots, and line charts, and progresses to tree maps, alluvial plots, radar charts, mosaic plots, grouped dot plots, effects plots, multivariate presentations such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

Chapman & Hall
March 2024 : 271pp
Pb: 978-1-032-28760-7 : **£63.99**
Hb: 978-1-032-28949-6 : **£165**
eBook: 978-1-003-29927-1

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

Data Visualization Made Simple

Insights into Becoming Visual



Kristen Sosulski New York University, USA

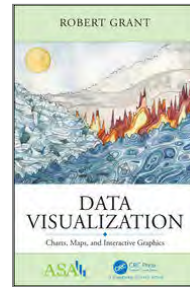
Data Visualization Made Simple is a practical guide to the fundamentals, strategies, and real-world cases for data visualization, an essential skill required in today's information-rich world. With foundations rooted in statistics, psychology, and computer science, data visualization offers practitioners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

Routledge
October 2018 : 284pp
Pb: 978-1-138-50391-5 : **£36.99**
Hb: 978-1-138-50387-8 : **£145**
eBook: 978-1-315-14609-6

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

Data Visualization

Charts, Maps, and Interactive Graphics



Robert Grant Kingston University & St George's, University of London

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

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

Chapman & Hall
December 2018 : 248pp
Pb: 978-1-138-70760-3 : **£23.99**
Hb: 978-1-138-55359-0 : **£86.99**
eBook: 978-1-315-20135-1

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

Data Sketches

A journey of imagination, exploration, and beautiful data visualizations



Nadieh Bremer, Shirley Wu

Series: AK Peters Visualization Series

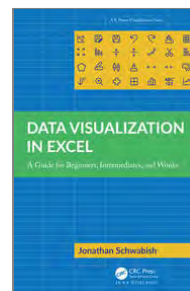
In Data Sketches, Nadieh Bremer and Shirley Wu document the creative and collaborative process behind 24 unique data visualization projects, spanning different topics, technologies, and forms. Features: Technical write-ups with beginner-friendly explanations of core concepts; Practical lessons on data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

A K Peters/CRC Press
February 2021 : 428pp
Pb: 978-0-367-00008-0 : **£37.99**
Hb: 978-0-367-00012-7 : **£99.99**
eBook: 978-0-429-44501-9

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

Data Visualization in Excel

A Guide for Beginners, Intermediates, and Wonks



Jonathan Schwabish

Series: AK Peters Visualization Series

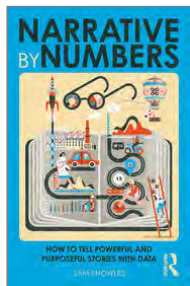
Data Visualization in Excel closes the gap between what people think Excel can do and what they can achieve in the tool. Over the past few years, recognition of the importance of effectively visualizing data has led to an explosion data analysis and visualization software tools. But for many people,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

A K Peters/CRC Press
May 2023 : 400pp
Pb: 978-1-032-34326-6 : **£26.99**
Hb: 978-1-032-34328-0 : **£81.99**
eBook: 978-1-032-48782-3 : **£22.99**

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

Narrative by Numbers

How to Tell Powerful and Purposeful Stories with Data



Sam Knowles

Series: Using Data Better

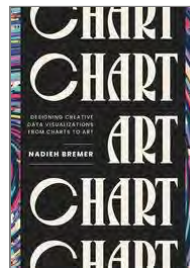
As jobs in the knowledge economy become increasingly similar, there are two core skills that everyone needs if they are going to thrive and succeed and to make a difference. These are the ability to interrogate and make sense of data, and the ability to use the insights extracted from the data to persuade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

Routledge
March 2018 : 176pp
Pb: 978-0-815-35314-0 : **£36.99**
Hb: 978-0-815-35315-7 : **£135**
eBook: 978-1-351-13722-5

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

CHART

Designing Creative Data Visualizations from Charts to Art



Nadieh Bremer

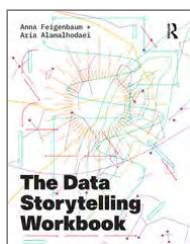
Series: AK Peters Visualization Series

CHART is a guide to unleashing creativity in data visualization. It takes you on a journey along the spectrum from an ordinary chart to data art, packed with ways to bring more creativity into any visualization. It will help to make your visuals more compelling and memorable, long after the numbers have been crunched. The author shares thirteen hands-on, tool-agnostic lessons, each filled with actionable insights and unique perspectives. Between these core lessons, you'll find tips, mini-chapters, and dozens of real-world examples from both client and personal projects. Designed for journalists, data analysts, business professionals, and newcomers alike.

A K Peters/CRC Press
May 2025 : 300pp
Hb: 978-1-032-79775-5 : **£35.99**

* For full contents and more information, visit: www.routledge.com/9781032797755

The Data Storytelling Workbook



Anna Feigenbaum , Aria Alamalhodaie

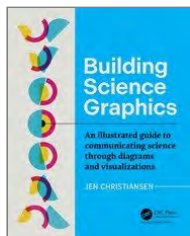
From tracking down information to symbolising human experiences, this book is your guide for telling more effective, empathetic and evidence-based data stories. Wide-ranging and in-depth, this interdisciplinary book is essential for students and researchers in journalism, communication, media, visual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

Routledge
March 2020 : 256pp
Pb: 978-1-138-05211-6 : **£34.99**
Hb: 978-1-138-05210-9 : **£135**
eBook: 978-1-315-16801-2

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

Building Science Graphics

An Illustrated Guide to Communicating Science through Diagrams and Visualizations



Jen Christiansen

Series: AK Peters Visualization Series

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

A K Peters/CRC Press
August 2022 : 357pp
Pb: 978-1-032-10674-8 : **£38.99**
Hb: 978-1-032-10940-4 : **£94.99**
eBook: 978-1-003-21781-7

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

Presenting in English

A Practical Guide



Dick Smakman

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

Routledge
June 2024 : 230pp
Pb: 978-1-032-62532-4 : **£38.99**
Hb: 978-1-032-62787-8 : **£145**
eBook: 978-1-032-62789-2

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

Virtual Presenting

A Guide to Formats, Production and Authentic Delivery



Jamie Cohen, Michael Sorrentino

Responding to the widespread and continued acceleration of virtual working practices in recent years, Virtual Presenting provides a clear guide to producing, presenting and broadcasting in a remote context. Unlike traditional studio production where a presenter is surrounded by a crew and cameras, the virtual presenter is often isolated or connected to a remote crew. Virtual Presenting explains how to make an authentic connection across great spaces, linked only via Internet. Topics covered include how to build a virtual setup; how to appear on camera; how to appear confident and comfortable; and how to optimize your presentation voice.

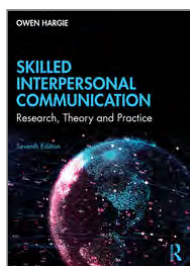
Routledge
March 2023 : 232pp
Pb: 978-1-032-25777-8 : **£35.99**
Hb: 978-1-032-27185-9 : **£125**
eBook: 978-1-003-29171-8

* For full contents and more information, visit: www.routledge.com/9781032257778

7TH EDITION

Skilled Interpersonal Communication

Research, Theory and Practice



Owen Hargie

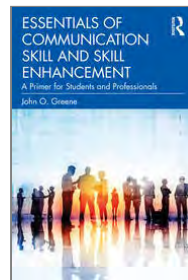
Established as the foremost textbook on communication, the seventh edition of Owen Hargie's Skilled Interpersonal Communication is thoroughly revised and updated with the latest research findings, theoretical developments and applications. Written by one of the foremost international experts in the field, this is essential reading for students of interpersonal communication in general, and to qualified personnel and trainees in many fields.

Routledge
November 2021 : 678pp
Pb: 978-1-032-00878-3 : **£49.99**
Hb: 978-1-032-02185-0 : **£135**
eBook: 978-1-003-18226-9

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

Essentials of Communication Skill and Skill Enhancement

A Primer for Students and Professionals



John O. Greene

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

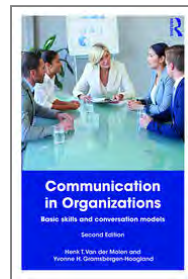
Routledge
March 2021 : 174pp
Pb: 978-0-367-53428-8 : **£36.99**
Hb: 978-0-367-53838-5 : **£135**
eBook: 978-1-003-08345-0

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

2ND EDITION

Communication in Organizations

Basic Skills and Conversation Models



Henk T. Van der Molen, Yvonne Gramsbergen-Hoogland

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

Routledge
October 2018 : 214pp
Pb: 978-1-138-55212-8 : **£32.99**
Hb: 978-1-138-55210-4 : **£135**
eBook: 978-1-315-14796-3

* For full contents and more information, visit: www.routledge.com/9781138552128

Interpersonal Skills for Group Collaboration

Creating High-Performance Teams in the Classroom and the Workplace



Tammy Rice-Bailey Milwaukee School of Engineering, USA, **Felicia Chong**

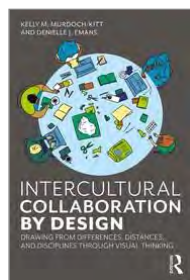
This lively and engaging text introduces readers to the core interpersonal and organizational skills needed to effectively collaborate on group projects in the classroom and the workplace. This guide can be used a supplementary text for any courses involving group projects, and will also be of interest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

Routledge
February 2023 : 142pp
Pb: 978-1-032-25906-2 : **£35.99**
Hb: 978-1-032-25907-9 : **£125**
eBook: 978-1-003-28557-1

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

Intercultural Collaboration by Design

Drawing from Differences, Distances, and Disciplines Through Visual Thinking



Kelly Murdoch-Kitt, Denielle Emans

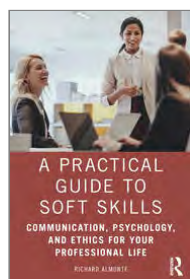
Intercultural Collaboration by Design introduces a framework for collaborating across cultures and learning to use multicultural perspectives to address pressing global issues. With over 30 hands-on activities, this book will be of great interest to diverse teams from a variety of disciplines who want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

Routledge
January 2020 : 308pp
Pb: 978-0-367-21931-4 : **£32.99**
Hb: 978-0-367-21932-1 : **£120**
eBook: 978-0-429-26882-3

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

A Practical Guide to Soft Skills

Communication, Psychology, and Ethics for Your Professional Life



Richard Almonte

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

Routledge
December 2021 : 188pp
Pb: 978-1-032-07105-3 : **£41.99**
Hb: 978-1-032-08101-4 : **£140**
eBook: 978-1-003-21294-2

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

English for Business Communication



Mable Chan

Series: Routledge Applied English Language Introductions

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

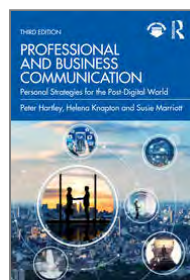
Routledge
January 2020 : 246pp
Pb: 978-1-138-48168-8 : **£35.99**
Hb: 978-1-138-48167-1 : **£135**
eBook: 978-1-351-06003-5

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

3RD EDITION

Professional and Business Communication

Personal Strategies for the Post-Digital World



Peter Hartley Edge Hill University, UK, **Susie Marriott**, **Helena Knapton**

This new edition of Professional and Business Communication is an ideal core communications textbook for students on business, management and professional courses preferring a practice-focused, and colloquial approach that combines accessibility with key theory.

Routledge
May 2023 : 380pp
Pb: 978-1-032-26800-2 : **£35.99**
Hb: 978-1-032-28586-3 : **£135**
eBook: 978-1-003-29755-0

* For full contents and more information, visit: www.routledge.com/9781032268002

Creating a Successful Digital Presence

Objectives, Strategies and Tactics



Gordon Fletcher University of Salford, UK, **Noel Adolphus**

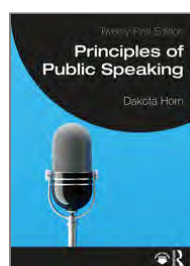
Increasingly graduates, and anyone entering employment, need an individual digital presence to showcase themselves to secure their first professional role. It takes an employability approach to encourage readers to recognise and deliver an effective digital presence. By using a strategic and systematic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

Routledge
July 2021 : 212pp
Pb: 978-0-367-46037-2 : **£37.99**
Hb: 978-0-367-46034-1 : **£135**
eBook: 978-1-003-02658-7

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

21ST EDITION

Principles of Public Speaking



Dakota Horn Bradley University, USA.

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

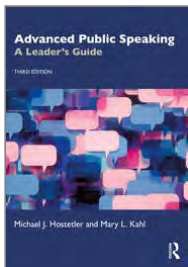
Routledge
April 2024 : 246pp
Pb: 978-1-032-53763-4 : **£100**
Hb: 978-1-032-54052-8 : **£220**
eBook: 978-1-032-72308-2 : **£96.99**

* For full contents and more information, visit: www.routledge.com/9781032537634

3RD EDITION

Advanced Public Speaking

A Leader's Guide



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

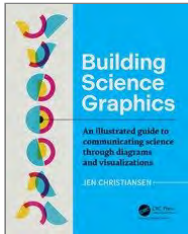
Providing users with the opportunity to increase their speaking abilities across a wide variety of complex and specific contexts, this student-engagement focused and flexible text serves as a core textbook for upper-level undergraduate public speaking courses.

Routledge
March 2024 : 212pp
Pb: 978-1-032-53186-1 : **£62.99**
Hb: 978-1-032-53187-8 : **£140**
eBook: 978-1-003-41078-2

* For full contents and more information, visit: www.routledge.com/9781032531861

Building Science Graphics

An Illustrated Guide to Communicating Science through Diagrams and Visualizations



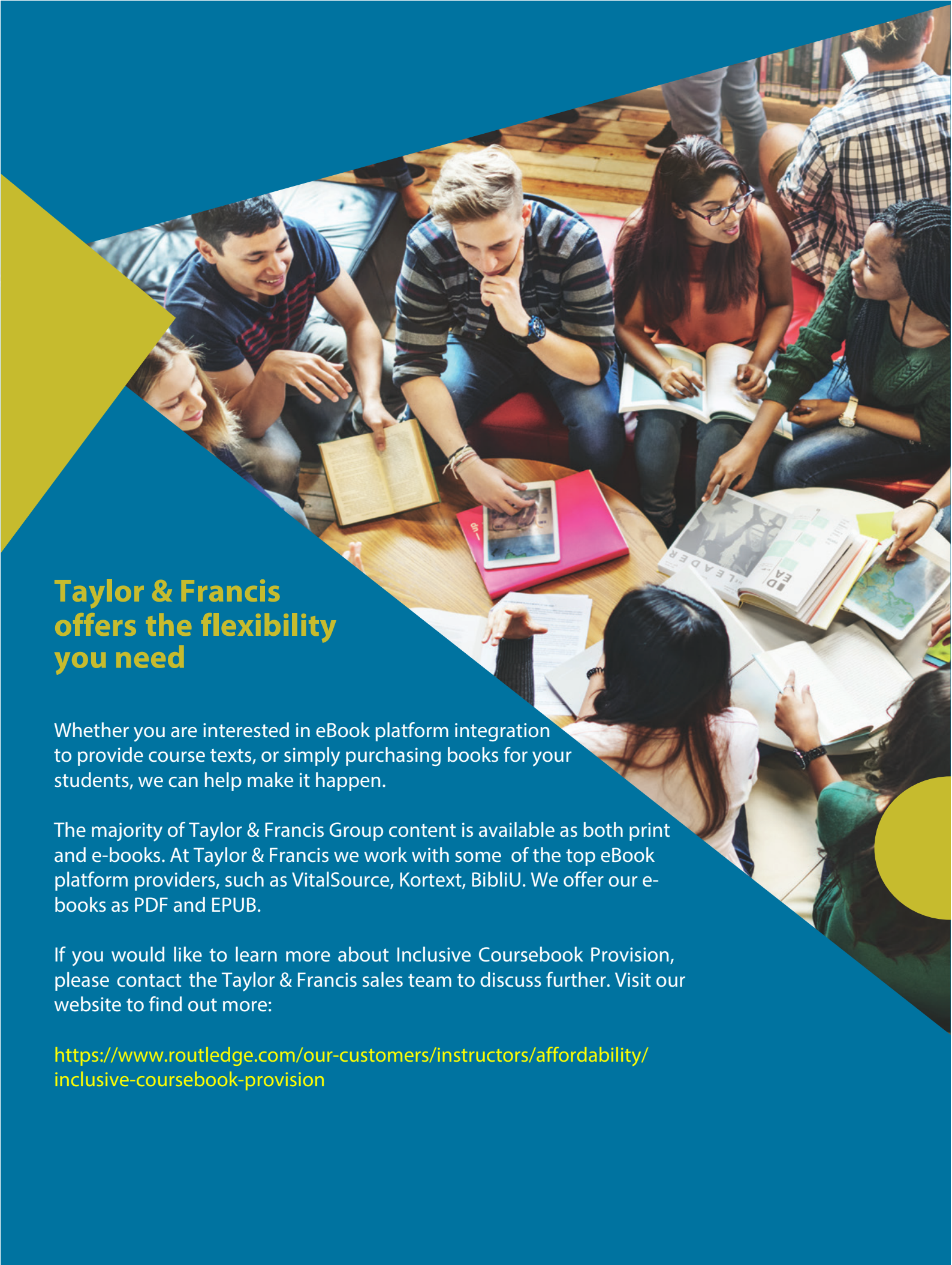
Jen Christiansen

Series: AK Peters Visualization Series

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

A K Peters/CRC Press
August 2022 : 357pp
Pb: 978-1-032-10674-8 : **£38.99**
Hb: 978-1-032-10940-4 : **£94.99**
eBook: 978-1-003-21781-7

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