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Science and Technology Catalogue

January - June 2026

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Chemistry, Computer Science, Mathematics, Physics,
Software Networking & Security and Statistics



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Welcome to the January to June 2026 Science and Technology Catalogue.

Subjects include Chemistry, Computer Science, Mathematics, Physics, Software Networking & Security and Statistics.

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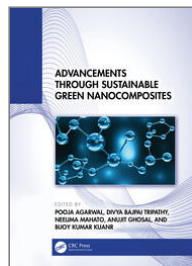
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Advancements through Sustainable Green Nanocomposites



Edited by **Pooja Agarwal** Galgotias University, Uttar Pradesh, India, **Divya Bajpai Tripathy** Galgotias University, India, **Neelima Mahato** Chungnam National University, South Korea, **Anujit Ghosal** University of Manitoba, Winnipeg, Canada, **Bijoy Kumar Kuanr** SCNS, Jawaharlal Nehru University, India.

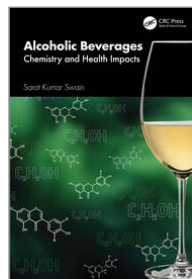
Advancements through Sustainable Green Nanocomposites investigates how nanotechnology plays a role in tackling global sustainability challenges. Moreover, the ongoing aim, is to link innovative findings of nanomaterials with promising sustainable applications in different industries. In this context, the authors focus on providing applications of sustainable and biogenic synthetic methods, sustainable practices, etc., to develop novel nanocomposites that are functional but limit consequences to environment.

CRC Press
April 2026 : 264pp
Hb: 978-1-032-78299-7 : \$140

* For full contents and more information, visit: www.routledge.com/9781032782997

Alcoholic Beverages

Chemistry and Health Impacts



Sarat Kumar Swain Veer Surendra Sai Univ. of Tech., Dept. of Chem, Odisha

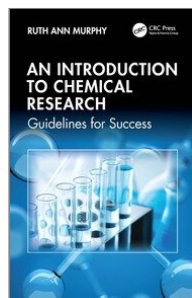
The main focus of the book is to explore the chemistry and health impact of different alcoholic beverages. It is important to know the chemical composition of alcoholic beverages before consumption, as ethyl alcohol is not its only component. There is a common misconception that 'a small dose of alcoholic beverage is good for health.' However, this "small" is not a well-defined amount, and beyond a certain level, the consumption of alcoholic beverages becomes injurious to health. The effect of alcoholic beverages on health is influenced by their chemistry. The present book reveals a detailed study of the chemistry and health impacts of various alcoholic beverages.

CRC Press
November 2025 : 336pp
Hb: 978-1-032-66116-2 : \$140
eBook: 978-1-032-66120-9

* For full contents and more information, visit: www.routledge.com/9781032661162

An Introduction to Chemical Research

Guidelines for Success



Ruth Ann Murphy

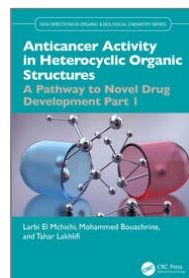
This user-friendly student text presents a comprehensive and novel approach to preparation for chemical research. It can be adopted as a textbook for research courses, but also for individual study. Useful details such as ordering supplies and dealing with granting foundations are included. Even working with maintenance crews is discussed. The text saves research directors valuable time in the development of courses and it even highlights foundational material with examples and case studies from the research world. It serves as the 'go-to' text and first resource in the exciting field of chemical research.

CRC Press
April 2026 : 280pp
Pb: 978-1-032-46639-2 : \$66.99
Hb: 978-1-032-46328-5 : \$120

* For full contents and more information, visit: www.routledge.com/9781032466392

Anticancer Activity in Heterocyclic Organic Structures

A Pathway to Novel Drug Development Part 1



Larbi El Mchichi, Mohammed Bouachrine, Tahar Lakhli

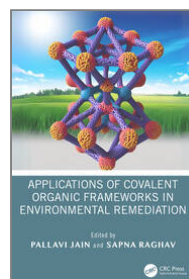
Series: New Directions in Organic & Biological Chemistry

This new volume in New Directions in Organic & Biological Chemistry, explores the development of cancer therapeutics, focusing on molecular chemistry and advanced drug design approaches. Written by experts in theoretical chemistry and molecular chemistry, they bridge the gap between theoretical chemistry, molecular biology, and drug development. In Part I, they focus on the fundamental properties of heterocyclic compounds and innovative methodologies being employed to enhance therapeutic potential.

CRC Press
December 2025 : 180pp
Hb: 978-1-041-10058-4 : \$200

* For full contents and more information, visit: www.routledge.com/9781041100584

Applications of Covalent Organic Frameworks in Environmental Remediation



Edited by **Pallavi Jain** SRM Institute of Science and Technology, India, **Sapna Raghav** Shri Jagdishprasad Jhabarmal Tibrewala Univ., Rajasthan

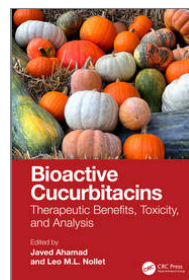
This book provides a comprehensive overview of Covalent Organic Frameworks (COFs) and their growing significance in environmental applications. With their highly ordered, porous structures and tunable properties, COFs offer innovative solutions for challenges such as water purification, air filtration, and pollutant degradation. The book introduces the fundamentals of COF synthesis, structure, and properties, while highlighting recent research advances and practical applications. Emphasizing both theoretical insights and real-world relevance, it explores how molecular design, and structural engineering can enhance COF performance.

CRC Press
November 2025 : 324pp
Hb: 978-1-032-99667-7 : \$140
eBook: 978-1-003-60538-6

* For full contents and more information, visit: www.routledge.com/9781032996677

Bioactive Cucurbitacins

Therapeutic Benefits, Toxicity, and Analysis



Edited by **Javed Ahamad, Leo M.L. Nollet** University College Ghent

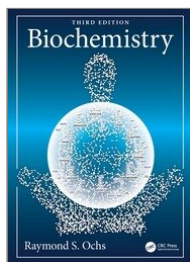
This book provides an important guideline for the extraction, isolation, identification, and characterization of bioactive cucurbitacins present in vegetables and fruits. It emphasizes recent preclinical and clinical studies on cucurbitacins role as a lead molecule for the prevention and treatment of various types of cancers, human infections, metabolic syndrome, and their role as antioxidants and anti-inflammatory agents. This book summarizes the current state of knowledge in the key research areas and provides ideas for future scientific research to identify lead molecules "cucurbitacins" from vegetables and fruits and to use them in drug discovery and development.

CRC Press
January 2026 : 266pp
Hb: 978-1-032-95140-9 : \$140

* For full contents and more information, visit: www.routledge.com/9781032951409

3RD EDITION

Biochemistry



Raymond S Ochs

Biochemistry Third Edition, is a single-semester text designed for undergraduate non-biochemistry majors. Accessible, engaging, and informative, it is the perfect introduction to the subject for students who may approach chemistry with apprehension. Its unique emphasis on metabolism and its kinetic underpinnings gives the text up-to-the-minute relevance for students investigating current public health concerns, such as obesity and diabetes. This text will encourage students to explore the basics of chemistry and its influence on biological problems.

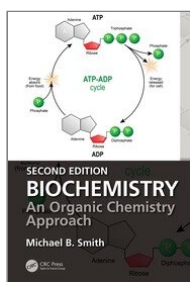
CRC Press
March 2026 : 376pp
Pb: 978-1-032-81414-8 : \$129.95
Hb: 978-1-032-81483-4 : \$325

* For full contents and more information, visit: www.routledge.com/9781032814148

2ND EDITION

Biochemistry

An Organic Chemistry Approach



Michael B. Smith University of Connecticut, Storrs, USA

Reactions in biochemistry can be explained by an understanding of fundamental organic chemistry principles and reactions. This paradigm is extended to biochemical principles and to a myriad of biomolecules. The text provides a framework for understanding various topics of biochemistry including the chemical behavior of biomolecules, enzyme activity and more. Using several techniques to develop a relational understanding, including homework, this text helps students fully grasp and better correlate the essential organic chemistry concepts with those concepts at the root of biochemistry. The goal is to better understand the fundamental principles of biochemistry.

CRC Press
February 2026 : 376pp
Pb: 978-1-032-99619-6 : \$140
Hb: 978-1-032-99620-2 : \$220

* For full contents and more information, visit: www.routledge.com/9781032996196

Cancer Drug Discovery

Fascinating Anecdotes of Oncology Medicine



Jie Jack Li Revolution Medicines, California, USA

Series: Pillars of Progress in Drug Discovery

History is an erudite teacher, from which we can learn invaluable lessons, both positive and negative. This is especially true for drug discovery and development. While creativity demands we think outside of the box, past successes and failures in creating medicines are gifts that keep on giving. Creation of human medicines involves so many scientific and medical disciplines that history is our indispensable resources of institutional knowledge. This volume in a new series sheds light on successes to emulate and pitfalls to avoid in oncology drug discovery. The series editor blends education with engaging content for aspiring drug developers and helps to foster a deeper understanding.

CRC Press
May 2026 : 240pp
Pb: 978-1-041-24802-6 : \$66.99
Hb: 978-1-041-24803-3 : \$250

* For full contents and more information, visit: www.routledge.com/9781041248026

Carbon Nanomaterials—Based Biosensing for Cancer Therapeutics Technology Platform



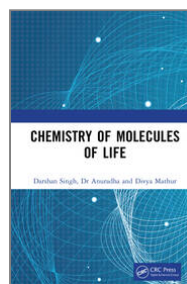
Loutfy H. Madkour Tanta University, Egypt

This book summarizes the recent progress in the research on the advancement of technology sensing based sensors and biosensors of carbon nanomaterials (mainly, CNTs and graphene or graphene oxide) and its biomedical applications particularly in drug delivery for anticancer diagnosis and therapies. It discusses the main advances in the field over the last few years and explore the novel preparation methods of carbon nanomaterials (metal nanostructures/carbon materials) and their applications in various catalytic organic transformations.

CRC Press
March 2026 : 856pp
Hb: 978-1-041-08353-5 : \$250

* For full contents and more information, visit: www.routledge.com/9781041083535

Chemistry of Molecules of Life



Darshan Singh, Dr Anuradha, Divya Mathur

This book provides students with insights into biochemical foundations, covering topics like carbohydrates, nucleic acids, proteins, enzymes, lipids, and metabolism across six focused chapters. It discusses molecular structures, biological functions, and so on, and presents complex biochemical concepts in accessible language, making it easier to understand chemical basis of biological processes. Ideal for undergraduate chemistry students. This title has been co-published with Manakin Press. Taylor & Francis does not sell or distribute the print edition in India, Pakistan, Nepal, Bhutan, Sri Lanka and Bangladesh.

CRC Press
January 2026 : 288pp
Hb: 978-1-041-20682-8 : \$140
eBook: 978-1-003-72745-3

* For full contents and more information, visit: www.routledge.com/9781041206828

Chiral Recognition and Separation Mechanisms



Nelu Grinberg Boehringer-Ingelheim Pharmaceuticals Inc., Ridgefield, Connecticut, USA, **Nizar Haddad, Shengli Ma**

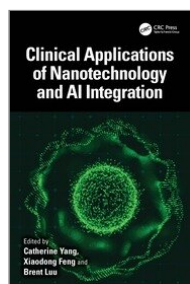
Series: Chromatographic Science Series

Chirality plays a major role in biological processes and the enantiomers of a bioactive molecule often possess different biological effects. Accurate assessment is critical as isomeric impurities may have unwanted toxicological, pharmacological, or other effects. Separation techniques remain the method of choice for this area of drug research but there is a great deal of trial and error in choosing a particular column for a chiral separation. This book gives a rationale for choosing a stationary phase that is based on the relationship that exists between the analytes and the chiral stationary phases. The text provides examples to underline the separation mechanism.

CRC Press
May 2026 : 350pp
Hb: 978-1-439-85257-6 : \$199.95

* For full contents and more information, visit: www.routledge.com/9781439852576

Clinical Applications of Nanotechnology and AI Integration



Edited by **Xiaodong Feng**, **Brent B. Luu**, **Catherine Yang**

The convergence of nanomedicine and artificial intelligence (AI) is revolutionizing healthcare, offering unprecedented advancements in diagnostics, drug delivery, and personalized treatment. Nanomedicine and AI-Enabled Technology in Clinical Application provides an in-depth exploration of these fields, shedding light on cutting-edge innovations and their real-world clinical implications. Edited by leading experts, this book serves as a valuable resource for researchers, clinicians, medical professionals, and industry leaders striving to harness the potential of nanomedicine and AI for improved global healthcare.

CRC Press
March 2026 : 490pp
Pb: 978-1-032-52412-2 : \$66.99
Hb: 978-1-032-52282-1 : \$180

* For full contents and more information, visit: www.routledge.com/9781032524122

Drug Delivery

From Fundamentals to the Future



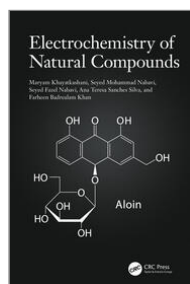
Edited by **Dimitrios A. Lamprou**, **Matthew P. Wylie**

This new text assist students in understanding the important science underpinning the formulation of modern dosage forms and how pharmaceutical and biopharmaceutical formulations are developed. Moreover, it covers the design and development of a wide range of pharmaceutical formulations and problem-solving issues associated with their production. The chapters support undergraduate and graduate students to develop the knowledge required for their studies or prepare for employment in the pharmaceutical industry that is estimated to be worth \$1.42 trillion. The book covers topics from basic drug delivery to the future, including machine learning and sustainability approaches.

CRC Press
May 2026 : 600pp
Pb: 978-1-032-77235-6 : \$66.99
Hb: 978-1-032-77319-3 : \$120

* For full contents and more information, visit: www.routledge.com/9781032772356

Electrochemistry of Natural Compounds



Maryam Khayatkashani Tehran University of Medical Sciences, Iran, **Seyed Mohammad Nabavi** Baqiyatallah University of Medical Sciences, Iran, **Seyed Fazel Nabavi** Baqiyatallah University of Medical Sciences, Iran, **Ana Teresa Sanches Silva** National Institute of Agrarian and Veterinary Research, Portugal, **Farheen Badrealam Khan**

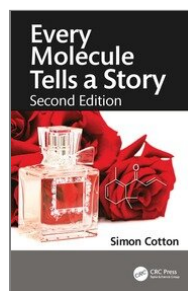
This book uniquely combines electrosynthesis, corrosion inhibition, and voltammetric measurement techniques specifically tailored for natural compounds. It provides detailed, hands-on guidance for preparing solutions, fabricating electrodes, and optimizing experimental parameters, making it immediately useful for researchers. The book highlights the principles of green chemistry in electrosynthesis, promoting sustainable approaches to natural product research. It bridges the gap between theoretical electrochemistry and real-world applications, particularly in pharmaceutical analysis, corrosion prevention, and materials science.

CRC Press
March 2026 : 240pp
Hb: 978-1-032-13400-0 : \$150

* For full contents and more information, visit: www.routledge.com/9781032134000

2ND EDITION

Every Molecule Tells a Story



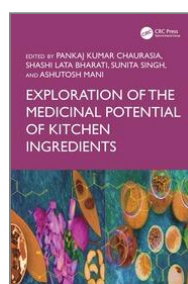
Simon Cotton University of Birmingham, UK

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

CRC Press
March 2026 : 248pp
Pb: 978-1-032-61624-7 : \$66.99
Hb: 978-1-032-61552-3 : \$120

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

Exploration of the Medicinal Potential of Kitchen Ingredients



Edited by **Pankaj Kumar Chaurasia** L.S. College, B.R.

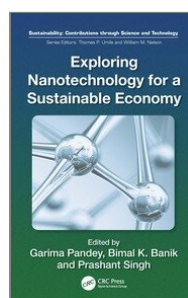
Ambedkar Bihar University, Bihar, **Shashi Lata Bharati** Department of Chemistry, NERIST, India, **Sunita Singh** Navyug Kanya Mahavidyalaya, University of Lucknow, UP, **Ashutosh Mani** Motilal Nehru National Institute of Technology, India

This book explores the therapeutic potential of everyday kitchen ingredients, blending traditional practices along with modern scientific insights. It provides insights beyond the regular culinary use of vegetables and spices, and presents a comprehensive analysis of their chemistry, nutraceutical roles, and pharmacological applications. It is an essential resource for students, researchers, faculties and healthcare professionals specially working in naturopathy. The book promises to inspire innovative solutions and expand horizons in the fields of pharmacology and natural therapeutics.

CRC Press
December 2025 : 304pp
Hb: 978-1-032-90806-9 : \$140
eBook: 978-1-003-55989-4

* For full contents and more information, visit: www.routledge.com/9781032908069

Exploring Nanotechnology for a Sustainable Economy



Edited by **Bimal Krishna Banik** PMU, Saudi Arabia, **Prashant Singh** Atma Ram Sanatan Dharma College, India, **Garima Pandey**

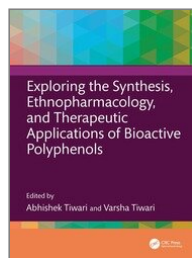
Series: *Sustainability: Contributions through Science and Technology*

The book delves into the structural and functional properties of nanomaterials, which are critical for their applications in clean energy, environmental remediation, water treatment and healthcare. It highlights their environmental significance and explores the fundamentals of nanotechnology alongside cutting-edge developments. Additionally, the book addresses the environmental fate, health hazards and regulatory frameworks of nanomaterials, offering a balanced perspective on their deployment. This book serves as an authoritative resource for researchers, policymakers and industry professionals to drive sustainable economic growth while addressing pressing global challenges.

CRC Press
December 2025 : 362pp
Pb: 978-1-041-05379-8 : \$66.99
Hb: 978-1-041-05373-6 : \$250

* For full contents and more information, visit: www.routledge.com/9781041053798

Exploring the Synthesis, Ethnopharmacology, and Therapeutic Applications of Bioactive Polyphenols



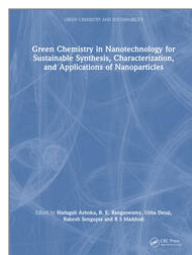
Edited by **Abhishek Tiwari** IFTM University, Moradabad, U.P., India, **Varsha Tiwari** IFTM University, U.P., India

The book entitled "Exploring the Synthesis, Ethnopharmacology, and Therapeutic Applications of Bioactive Polyphenols" offers a comprehensive examination of one of the most dynamic areas in natural product chemistry and drug discovery. Polyphenols, long recognized for their diverse biological activities, are now at the forefront of research in preventive medicine, nutraceuticals, and pharmaceutical innovation. This book brings together the chemistry, traditional uses, and modern therapeutic perspectives of bioactive polyphenols in a single, well-structured volume.

CRC Press
March 2026 : 392pp
Hb: 978-1-032-91636-1 : \$170

* For full contents and more information, visit: www.routledge.com/9781032916361

Green Chemistry in Nanotechnology for Sustainable Synthesis, Characterization, and Applications of Nanoparticles



Edited by **Hadagali Ashoka**, **B. E. Rangaswamy**, **Usha Desai** SR University, India, **Rakesh Sengupta**, **B. S. Maddodi**

Series: *Green Chemistry and Sustainability*

Nanotechnology has become one of the most revolutionary scientific domains of the 21st century, providing answers for healthcare, renewable energy, environmental cleanup, and industrial advancements. Nonetheless, the swift expansion of this technology necessitates a comparable dedication to environmental responsibility and safety.

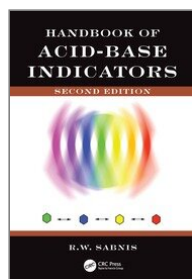
CRC Press
March 2026 : 336pp
Hb: 978-1-041-08236-1 : \$140

* For full contents and more information, visit: www.routledge.com/9781041082361

2ND EDITION

Handbook of Acid-Base Indicators

pH Indicators



R.W. Sabnis

This updated handbook provides information on over 300+ acid-base indicators and a guide for both the chemist and non-chemist in industry and in university. Listed alphabetically each entry contains General Chemical Name, Other Chemical Names, Chemical Abstract (CA) Index Name, CAS Registry Number, Merck Index Number, Chemical Structure, Chemical/Dye Class, Molecular Formula, Molecular Weight, Melting Point, Boiling Point, pH Range, Color Change at pH, pKa, Physical Form, Solubility, UV-visible Spectrum, Synthesis, Major Applications, Safety and References.

CRC Press
February 2026 : 744pp
Hb: 978-1-138-19805-0 : \$300

* For full contents and more information, visit: www.routledge.com/9781138198050

Handbook of Creatine and Creatinine In Vivo Kinetics

Production, Distribution, Metabolism, and Excretion



Mehdi Boroujerdi College of Health Sciences - School of Pharmacy, University of Massachusetts Lowell, USA

The conceptual basis to summarize and predict the in vivo behavior and the related mathematical descriptions and models of creatine and creatinine are currently based on the principles and the methodologies of pharmacokinetics and pharmacodynamics. Most in vivo kinetic analyses and models of creatine and creatinine are assumed linear. The presence of nonlinear in vivo kinetics for creatine are assessed by the author due to the affinity and preferential uptake of the molecule in the muscle. This book is an inquiry into the application of these principles and methodologies for the endogenous compounds creatine and creatinine, and provides new pathways for studies and bench research.

CRC Press
April 2026 : 312pp
Pb: 978-1-032-99528-1 : \$66.99
Hb: 978-1-032-99527-4 : \$210

* For full contents and more information, visit: www.routledge.com/9781032995281

Herb-Drug Interactions from A to Z

A Guide for Health Care Professionals and the Public Volume 1



L. Ömür Demirezer, **Tayfun Ersöz**, **Bilge Şener**, **Ayşe Kuruüzüm-Uz**

This volume provides information about herb-drug interactions that may arise as a result of the increasing interest in medicinal plants or herbal products and the concomitant use of conventional drugs. Medicinal plant-drug interactions are inevitable, especially when the elderly use medicinal plant products in addition to polypharmacy. Concurrent consumption of herbal products and conventional drugs is a serious concern. Over-the-counter herbal drug's doses can inhibit the metabolism of conventional drugs, increasing plasma levels of the drug. This book highlights evidence on herb-drug interactions from a systematic review, providing rapid access to information on their clinical use.

CRC Press
April 2026 : 368pp
Pb: 978-1-032-98648-7 : \$66.99
Hb: 978-1-032-98647-0 : \$140

* For full contents and more information, visit: www.routledge.com/9781032986487

Herb-Drug Interactions from A to Z

A Guide for Health Care Professionals Volume 2



L. Ömür Demirezer, **Tayfun Ersöz**, **Bilge Şener**, **Ayşe Kuruüzüm-Uz**

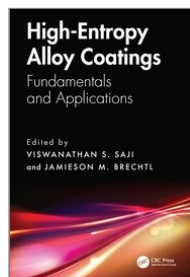
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CRC Press
April 2026 : 272pp
Pb: 978-1-032-98649-4 : \$66.99
Hb: 978-1-032-98645-6 : \$140

* For full contents and more information, visit: www.routledge.com/9781032986494

High-Entropy Alloy Coatings

Fundamentals and Applications



Edited by **Viswanathan S. Saji** King Fahd University of Petroleum and Minerals (KFUPM), Saudi Arabia, **Jamieson M. Brechtl**

High-Entropy Alloy Coatings: Fundamentals and Applications is a comprehensive overview of the exciting potential of HEA coatings. This book will cover the fundamentals, fabrication methods, applications, and recent advancements in this field, with concise chapters on each topic written by a team of experts. Part I will concentrate on the fundamental principles while Parts II, III, and IV will be dedicated to coating type, fabrication methods, and applications of HEA coatings. High entropy alloys (HEAs) consist of multiple (five or higher) principal elements distributed in roughly equal atomic percentages.

CRC Press
November 2025 : 476pp
Hb: 978-1-032-90750-5 : \$140
eBook: 978-1-003-55962-7

* For full contents and more information, visit: www.routledge.com/9781032907505

Large Language Models for Chemists

Applications and Insights



Zhiling Zheng

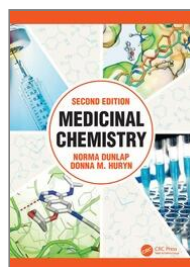
Large Language Models for Chemists breaks down that barrier by demystifying how LLMs work in an accessible way and showing, step-by-step, how they can be applied to solve real chemistry problems. Written in a friendly, tutorial style, the book assumes only a basic background in chemistry and minimal programming experience. It begins by gently introducing artificial intelligence and machine learning concepts in lay terms, building up to the inner workings of LLMs without heavy math. Readers will learn how these models "think" and generate text, gaining an intuitive understanding of concepts like neural networks, transformers, and training data using analogies and simple diagrams.

CRC Press
February 2026 : 136pp
Hb: 978-1-041-13279-0 : \$180

* For full contents and more information, visit: www.routledge.com/9781041132790

2ND EDITION

Medicinal Chemistry



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

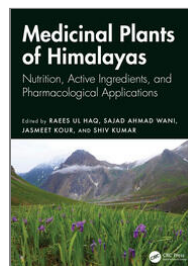
This book provides a concise introduction to the medicinal chemistry of therapeutically active compounds. Written in an accessible style, it offers a brief overview of the drug development process, from discovery to approved drug. Emphasizing medicinal chemistry strategies, the content is organized by target as well as therapeutic area drug classes. It covers existing drugs, and the discovery process that led to their development. Aimed at students and professionals interested in drug discovery, Medicinal Chemistry requires little prior knowledge, making it ideal for classroom and training seminar use.

CRC Press
December 2025 : 482pp
Pb: 978-1-032-73715-7 : \$140
Hb: 978-1-032-73716-4 : \$180
eBook: 978-1-003-46560-7

* For full contents and more information, visit: www.routledge.com/9781032737157

Medicinal Plants of Himalayas

Nutrition, Active Ingredients, and Pharmacological Applications



Edited by **Raees ul Haq** Dept. of Food Science & Tech., Univ. of Kashmir, Srinagar, **Sajad Ahmad Wani** Islamic University of Science and Technology, Kashmir, **Jasmeet Kour**, **Shiv Kumar**

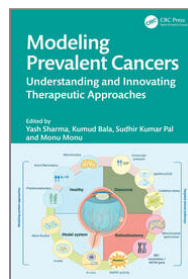
Medicinal Plants of Himalayas: Nutrition, Active Ingredients, and Pharmacological Applications presents glimpses of present status of metabolite diversity within different medicinal plants from the Himalayan regions. Apart from the metabolite diversity, the book provides glimpses of current isolation techniques and pharmacological activity of the bioactive components. The book tries to plug the gap by focusing on compiling different extraction and isolation procedures, pharmaceutical applications of different active ingredients along with providing the detailed introduction of the plants altogether in a single book.

CRC Press
December 2025 : 212pp
Hb: 978-1-032-27341-9 : \$140
eBook: 978-1-003-29234-0

* For full contents and more information, visit: www.routledge.com/9781032273419

Modeling Prevalent Cancers

Understanding and Innovating Therapeutic Approaches



Edited by **Yash Sharma**, **Kumud Bala**, **Sudhir Kumar Pal**, **Monu Monu**

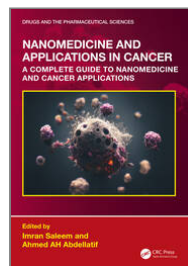
This volume offers a comprehensive exploration of prevalent cancers and the innovative Modeling techniques driving advancements in treatment strategies. In today's landscape of cancer research and therapeutic development, understanding the complexities of cancer biology and translating these insights into effective treatments is paramount. This book fills a crucial gap in the literature by providing a detailed examination of the diverse Modeling approaches utilized in the study of prevalent cancers, including breast, lung, colorectal, prostate, ovarian, and melanoma.

CRC Press
February 2026 : 304pp
Hb: 978-1-032-95138-6 : \$140

* For full contents and more information, visit: www.routledge.com/9781032951386

Nanomedicine and Applications in Cancer

A Complete Guide to Nanomedicine and Cancer Applications



Edited by **Imran Saleem**, **Ahmed AH Abdellatif**

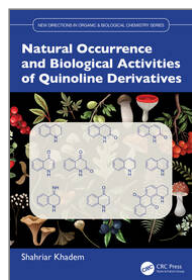
Series: *Drugs and the Pharmaceutical Sciences*

This book provides a detailed and systematic overview of nanomedicine formulations and their applications across the cancer treatment landscape. Beginning with fundamental principles of nanoparticle synthesis, characterization, and application in medicine, the text progresses to explore key nanoparticle platforms. The book further elucidates site-specific drug delivery, detailing passive and active targeting mechanisms through various ligands. Diagnostic applications of nanomedicine are also presented, with a focus on fluorescent nanoparticles, their characterization, biomedical uses, clinical trial status, and limitations in comparison to alternative diagnostic modalities.

CRC Press
December 2025 : 232pp
Pb: 978-1-032-85375-8 : \$89.99
Hb: 978-1-032-85374-1 : \$250
eBook: 978-1-003-51787-0

* For full contents and more information, visit: www.routledge.com/9781032853758

Natural Occurrence and Biological Activities of Quinoline Derivatives



Shahriar Khadem

Series: New Directions in Organic & Biological Chemistry

This latest volume in the New Directions in Organic & Biological Chemistry series provides a comprehensive overview of quinoline derivatives, focusing on their chemical structure, biological activities, and therapeutic benefits. It delves into the natural sources of these derivatives, covering their isolation, characterization, and potential therapeutic applications, particularly in areas such as anti-cancer, anti-inflammatory, antimicrobial, and antimalarial activity. With its emphasis on providing valuable reference material, this book is an indispensable resource for researchers, educators, and professionals in the fields of chemistry, biology, pharmacology, and drug discovery.

CRC Press
December 2025 : 458pp
Pb: 978-1-032-87815-7 : **\$66.99**
Hb: 978-1-032-87656-6 : **\$250**

* For full contents and more information, visit: www.routledge.com/9781032878157

Novel Nanostructured Carbon Materials (NCMs) for Enhancing Targeted Delivery of Cancer Therapeutics



Loutfy H. Madkour Tanta University, Egypt

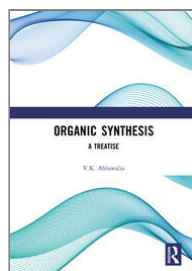
The book discusses Carbon—based nanomaterials (CBNMs) have attracted substantial research interest in biomedical sciences and nanobiotechnological, rendered from its unique structure, electronic, mechanical, and optical properties. By taking advantage of such aspects in a single entity, CBNMs could be used for developing biomedical applications in future. In this book special emphasis is placed on the implications of these interaction modes to design novel stimuli-responsive drug delivery principles and concepts, aiming to enhance the spatial, temporal, and dosage precision of drug delivery to cancer cells.

CRC Press
March 2026 : 568pp
Hb: 978-1-041-08349-8 : **\$250**

* For full contents and more information, visit: www.routledge.com/9781041083498

Organic Synthesis

A Treatise



V.K. Ahluwalia

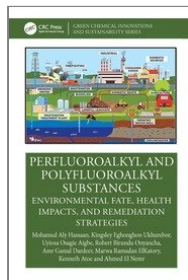
This book presents essential methods including oxidation, reduction, phase transfer catalysis, crown ethers, sonication, and stereoselective synthesis. Designed for chemistry courses at undergraduate and graduate levels, it offers clear explanations of theoretical principles and practical laboratory applications. This book offers a systematic guide to organic synthesis covering name reactions, reagents, and specialized techniques. This title has been co-published with Manakin Press. Taylor & Francis does not sell or distribute the print edition in India, Pakistan, Nepal, Bhutan, Sri Lanka and Bangladesh.

CRC Press
January 2026 : 838pp
Hb: 978-1-041-20692-7 : **\$250**

* For full contents and more information, visit: www.routledge.com/9781041206927

Perfluoroalkyl and Polyfluoroalkyl Substances

Environmental Fate, Health Impacts, and Remediation Strategies



Mohamed Aly Hassaan, Kingsley Eghonghon Ukhurebor, Uyiosa Osagie Aigbe, Robert Birundu Onyancha, Amr Gamal Dardeer, Marwa Ramadan Elkatory, Kenneth Atoe, Ahmed El Nemr

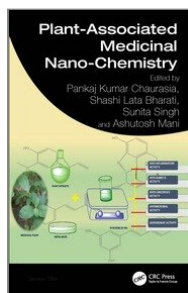
Series: Green Chemical Innovations and Sustainability

Perfluoroalkyl and Polyfluoroalkyl Substances: Environmental Fate, Health Impacts, and Remediation Strategies provides useful information on recent advancements in the use of perfluoroalkyl and polyfluoroalkyl substances, as well as their sources, environmental fate and conveyance, potential health impacts, and remediation strategies by harnessing the latest research findings and key scientific literature. The book draws its strength from a multidisciplinary approach with an emphasis on the enhancement of the understanding of perfluoroalkyl and polyfluoroalkyl substances and informs future research and management efforts.

CRC Press
November 2025 : 192pp
Pb: 978-1-041-03820-7 : **\$64.99**
Hb: 978-1-041-03819-1 : **\$250**
eBook: 978-1-003-62553-7

* For full contents and more information, visit: www.routledge.com/9781041038207

Plant-Associated Medicinal Nano-Chemistry



Edited by Pankaj Kumar Chaurasia L.S. College, B.R. Ambedkar Bihar University, Bihar, **Shashi Lata Bharati** Department of Chemistry, NERIST, India, **Sunita Singh** Navyug Kanya Mahavidyalaya, University of Lucknow, UP, **Ashutosh Mani** Motilal Nehru National Institute of Technology, India

Plant-Associated Medicinal Nano-Chemistry is a collection of 15 meticulously curated chapters that interconnects the transformative synergy between plant-derived bioactives and advanced nanotechnological platforms. This book reveals the pathways of green nanoparticle synthesis from plant sources, charting a dense trajectory through their complex applications—from targeted drug release and biosensing to innovative food preservation methods. A necessity for nanomedicine and pharmacognosy visionaries, and environmentally aware chemists, this handbook mends innovation and sustainability.

CRC Press
March 2026 : 298pp
Hb: 978-1-032-90808-3 : **\$140**

* For full contents and more information, visit: www.routledge.com/9781032908083

Poly(vinylpyridine)

Structure, Properties, Synthesis, and Applications



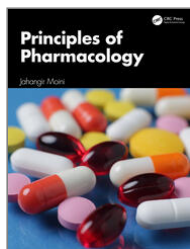
Kaveh Parvanak Boroujeni

Poly(vinylpyridine) is one of the most important polymers with many applications in the field of organic chemistry, polymer chemistry, medicine and industry.

CRC Press
January 2026 : 232pp
Hb: 978-1-041-10638-8 : **\$140**

* For full contents and more information, visit: www.routledge.com/9781041106388

Principles of Pharmacology



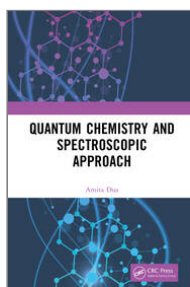
Jahangir Moini Eastern Florida State College, USA

Principles of Pharmacology reviews the fundamentals of pharmacology with a focus on the various body systems. Drug classifications, names, sources, and development serve as essential foundations. Furthermore, this volume uniquely discusses that understanding pharmacokinetics, pharmacodynamics, pharmacogenomics, and drug toxicity is crucial before addressing medications, clinical indications, mechanisms of action, adverse effects, and contraindications. Readers will encounter clinical case studies at the end of each chapter, accompanied by questions that provide real-world scenarios. Helpful appendices address high-alert medications, dosage calculations, and answer keys.

CRC Press
December 2025 : 352pp
Pb: 978-1-032-60947-8 : \$99.95
Hb: 978-1-032-61079-5 : \$250
eBook: 978-1-003-46191-3

* For full contents and more information, visit: www.routledge.com/9781032609478

Quantum Chemistry and Spectroscopic Approach



Amita Dua

This book aims to bridge gaps in classical foundations with modern applications. Beginning with atomic theory and progressing through Schrödinger equations to spectroscopy and chemical bonding, it provides rigorous mathematical treatment with clear physical interpretations. Suitable for graduate courses in physical chemistry and quantum physics, the text features detailed derivations and practical applications in spectroscopy. This title has been co-published with Manakin Press. Taylor & Francis does not sell or distribute the print edition in India, Pakistan, Nepal, Bhutan, Sri Lanka and Bangladesh.

CRC Press
January 2026 : 620pp
Hb: 978-1-041-20684-2 : \$250

* For full contents and more information, visit: www.routledge.com/9781041206842

Quantum Information Processing with Light



Debabrata Goswami, Sonaly Goswami

Quantum cryptography, for example, has already evolved to marketable devices. Most of the books on quantum information and/or quantum computing address the important aspect of optical implementation only briefly. This book solves that by focusing on all light-based approaches to quantum computing.

CRC Press
January 2026 : 432pp
Hb: 978-1-466-58399-3 : \$260

* For full contents and more information, visit: www.routledge.com/9781466583993

Strategies of Carbon Nanotube Nanocarriers — Based Anticancer Mediators



Loutfy H. Madkour Tanta University, Egypt

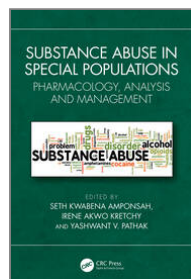
Smart-drug delivery aims to localize treatment to tumors to reduce cytotoxicity and enhance the therapeutic index by using multifunctional targeting strategies. This book focuses the applications of Nanostructured carbon materials (NCMs) in all fields of pharmacy and medicine from therapeutics to analysis and diagnosis. It also examines the pharmacokinetics, metabolism and toxicity of different forms of CNTs and discusses the perspectives, the advantages and the obstacles of this promising bio-nanotechnology in the future.

CRC Press
March 2026 : 488pp
Hb: 978-1-041-08347-4 : \$250

* For full contents and more information, visit: www.routledge.com/9781041083474

Substance Abuse in Special Populations

Pharmacology, Analysis and Management



Edited by **Seth Kwabena Amponsah** UGMS, Ghana,
Irene Akwo Kretchy, Yashwant Pathak USF, USA

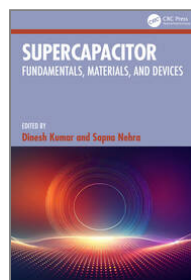
Substance abuse and addiction is the use of illegal drugs, prescription or over-the-counter drugs or household substances in a way that is detrimental to self, society or both. This volume discusses social, psychological, cultural, biological, and medical perspectives of substance abuse and addiction in special populations; with appropriate case study examples. It captures the various abused substances, novel assay techniques, laws governing use of these substances and management strategies. It includes a compendium of information on recent trends in substance abuse and addiction in special populations like adolescents, pregnant women, athletes, health professionals, among others.

CRC Press
February 2026 : 296pp
Pb: 978-1-041-02940-3 : \$66.99
Hb: 978-1-041-02936-6 : \$250

* For full contents and more information, visit: www.routledge.com/9781041029403

Supercapacitor

Fundamentals, Materials, and Devices



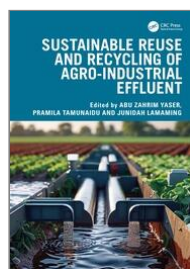
Edited by **Dinesh Kumar** Central University of Gujarat, India,
Sapna Nehra Nirwan University, Rajasthan, India

Maintaining a balanced blend of theory and application, Supercapacitor: Fundamentals, Materials, and Devices offers a complete guide to next-generation energy storage technology. It introduces supercapacitors as a powerful alternative to conventional batteries, emphasizing their unique electric field-based energy storage mechanism that enables rapid charging, long cycle life, and high-power density. Drawing from both academic and industry-driven research, the book lays a strong foundation by covering supercapacitor classifications, electrode/electrolyte materials, and fabrication techniques.

CRC Press
February 2026 : 296pp
Hb: 978-1-032-88009-9 : \$140

* For full contents and more information, visit: www.routledge.com/9781032880099

Sustainable Reuse and Recycling of Agro-Industrial Effluent



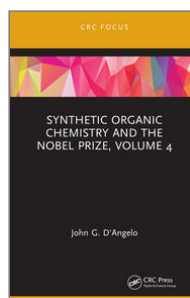
Edited by **Abu Zahrim Yaser** Universiti Malaysia Sabah,
Pramila Tamunaidu, **JUNIDAH LAMAMING** Universiti
Malaysia Sabah

Combating climate change and securing water for future generations requires rethinking waste as opportunity. *Sustainable Reuse and Recycling of Agro Industrial Effluent* presents a timely and accessible roadmap for transforming agro-industrial effluent from an environmental liability into a suite of value-added, sustainable resources.

CRC Press
March 2026 : 272pp
Hb: 978-1-032-99293-8 : \$230

* For full contents and more information, visit: www.routledge.com/9781032992938

Synthetic Organic Chemistry and the Nobel Prize, Volume 4



John G. D'Angelo Alfred University, NY, USA

Series: *Synthetic Organic Chemistry and the Nobel Prize*

The Nobel Prize is the highest award in science, as is the case with nonscience fields too, and it is, therefore, arguably the most internationally recognized award in the world. This unique set of volumes focuses on summarizing the Nobel Prize within organic chemistry, as well as the specializations within this specialty. Any reader researching the history of the field of organic chemistry will be interested in this work. Furthermore, it serves as an outstanding resource for providing a better understanding of the circumstances that led to these amazing discoveries and what has happened as a result, in the years since.

CRC Press
November 2025 : 120pp
Hb: 978-0-367-43903-3 : \$69.99

* For full contents and more information, visit: www.routledge.com/9780367439033

The Book of the Light of the Great Magistry of John of Rupescissa (Liber lucis magisterii magni)

Sources of Alchemy and Chemistry: Sir Robert Mond Studies in the History of Early Chemistry



Lawrence M. Principe

This is the first critical edition, modern English translation, and focussed study of John of Rupescissa's Book of Light of the Great Magistry. Based on over 100 surviving manuscripts, this critical edition restores substantial original text that was omitted from the printed editions and corrects longstanding textual errors. Principe explores John's sources and ideas, and follows the transmission, reception, vernacularization, and modifications of the text. Modern laboratory reworkings accompany the textual analyses, providing a vivid picture of the friar's practices and observational skills and deeper understanding of his text.

CRC Press
April 2026 : 288pp
Pb: 978-1-041-12777-2 : \$66.99
Hb: 978-1-041-12117-6 : \$150

* For full contents and more information, visit: www.routledge.com/9781041127772

6TH EDITION

The Chemistry and Technology of Petroleum



James G. Speight CD&W Inc., Laramie, Wyoming, USA

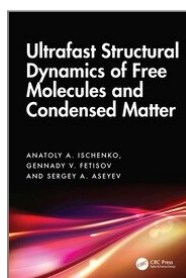
Series: *Chemical Industries*

The author of this bestselling handbook introduces readers to the science and technology of petroleum, beginning with its formation in the ground and culminating in the production of a wide variety of products and petrochemical intermediates. The new edition has been updated with the latest developments in the refining industry, including new processes as well as updates on evolving processes and various environmental regulations. The book contains figures and tables, including chemical structures and process flow sheets making it a useful reference for scientists and engineers in the petroleum industry as well as in the catalyst manufacturing industry.

CRC Press
April 2026 : 1520pp
Hb: 978-0-367-49805-4 : \$400

* For full contents and more information, visit: www.routledge.com/9780367498054

Ultrafast Structural Dynamics of Free Molecules and Condensed Matter



Anatoly A. Ischenko Dept of Analytical Chemistry,
Moscow Lomonosov State University of Fine Chemical
Technologies, Russia, **Gennady V. Fetisov**, **Sergey A. Aseyev**

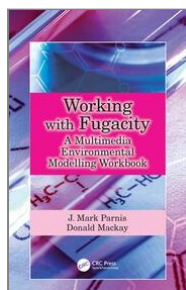
This concept of a "moment," an ultra-short time interval in the natural sciences, forces us to think about the relative positions of the atoms that define the barrier to the process of their interaction. It is the control of the barrier height that allows one of many possible atomic rearrangements to occur, since it occurs faster than competing processes. That is, the process of molecular transformation during interaction is inherently a "race against time." Manipulating the barrier height gives effective, exponential control over the yield of the reaction product.

CRC Press
December 2025 : 462pp
Hb: 978-1-041-11084-2 : \$250
eBook: 978-1-003-65816-0

* For full contents and more information, visit: www.routledge.com/9781041110842

Working with Fugacity

A Multimedia Environmental Modelling Workbook



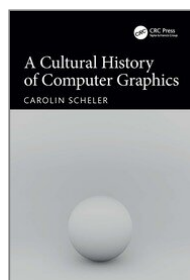
J. Mark Parnis Trent University- Canada, **Donald Mackay** Trent University- Canada

Fugacity-based chemical fate modelling is a fascinating and sometimes complicated scientific pursuit. Such modelling is of critical importance in the early stages of chemical management, when new chemicals are being introduced into production and little is known yet about their actual behaviour and fate in the environment.

CRC Press
December 2025 : 184pp
Pb: 978-1-041-10865-8 : \$64.99
Hb: 978-1-041-10866-5 : \$120
eBook: 978-1-003-65717-0

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A Cultural History of Computer Graphics



Carolin Scheler

In response to the need of new methods to culturally decode digital imagery, this book starts from the production process and describes computer graphics as an independent method of expression inherently containing a specific ideological concept of realism. Through this study, it becomes clear that a certain sense of the world is always inscribed in computer graphics software development and consequently the image creation process. This sense of the world is reflected by the effects on the relationship between image and reality. In its own unique way, every digital imaging method embodies its own sense of the world.

CRC Press

January 2026 : 292pp

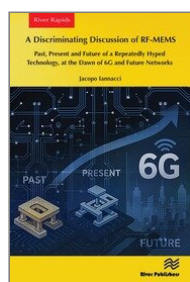
Pb: 978-1-041-08815-8 : \$66.99

Hb: 978-1-041-09400-5 : \$150

* For full contents and more information, visit: www.routledge.com/9781041088158

A Discriminating Discussion of RF-MEMS

Past, Present and Future of a Repeatedly Hyped Technology, at the Dawn of 6G and Future Networks



Jacopo Iannacci

This book offers a unique bottom-up perspective of a technology for the manufacturing of low-complexity hardware components, which elevates this to a key enabling technology of 6G and future networks. This MEMS-based technology enables the fabrication of highly miniaturized, high-performance, widely tunable/reconfigurable and frequency agile passives, among which are low-loss/high-isolation micro-switches, multi-state RF power attenuators, delay lines and impedance tuners, high-order switching matrices, tunable filters, and more.

River Publishers

November 2025 : 108pp

Pb: 978-8-743-80676-9 : \$110

eBook: 978-8-743-80677-6

* For full contents and more information, visit: www.routledge.com/9788743806769

Advanced Computational Intelligence Techniques for Engineers



Edited by T. Joshva Devadas, Naveenkumar Jayakumar, N. Narayanan Prasanth, P. Anandhakumar, Shrikant Jadhav

This book presents a thorough examination of computational intelligence and its significant influence on solving intricate engineering challenges. It covers fundamental theories as well as advanced applications, illustrating how techniques in computational intelligence are transforming engineering practices. The book is organized into distinct sections, each concentrating on specific engineering domains in which computational intelligence assumes a critical role.

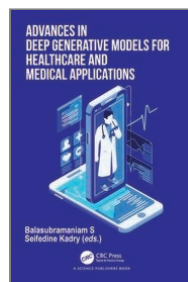
Chapman & Hall

December 2025 : 302pp

Hb: 978-1-032-87342-8 : \$160

* For full contents and more information, visit: www.routledge.com/9781032873428

Advances in Deep Generative Models for Healthcare and Medical Applications



Edited by Balasubramaniam S., Seifedine Kadry Noroff
University college, Norway

Recent advancements in generative AI have transformed computer vision, voice processing, and natural language processing. With technologies like GANs and diffusion models producing synthetic images and coherent text, these models are revolutionizing healthcare by learning complex features from medical data. This book explores deep generative models for healthcare, addressing clinical challenges and integrating innovative methodologies to enhance diagnostics and patient care, paving the way for practical integration into the future of healthcare.

CRC Press

December 2025 : 282pp

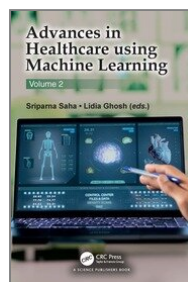
Hb: 978-1-032-98895-5 : \$140

eBook: 978-1-003-60208-8

* For full contents and more information, visit: www.routledge.com/9781032988955

Advances in Healthcare Using Machine Learning

Volume 2



Edited by Sriparna Saha Indian Institute of Technology, Bihar, India, **Lidia Ghosh**

Advancements in AI and Computer Vision are revolutionizing medical diagnostics by enabling real-time analysis of vast data. These technologies support early detection of diseases through imaging and bio signals, with machine learning enhancing prediction accuracy and clinical decision-making. This book focuses on ML algorithms that analyze medical data and predict diseases based on key features.

CRC Press

December 2025 : 308pp

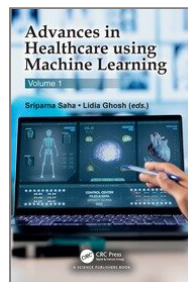
Hb: 978-1-041-14542-4 : \$140

eBook: 978-1-003-71668-6

* For full contents and more information, visit: www.routledge.com/9781041145424

Advances in Healthcare using Machine Learning

Volume 1



Edited by Sriparna Saha, Lidia Ghosh

Advancements in AI and Computer Vision are revolutionizing medical diagnostics by enabling real-time analysis of vast data. These technologies support early detection of diseases through imaging and bio signals, with machine learning enhancing prediction accuracy and clinical decision-making. This book focuses on ML algorithms that analyze medical data and predict diseases based on key features.

CRC Press

December 2025 : 264pp

Hb: 978-1-032-85348-2 : \$170

eBook: 978-1-003-53105-0

* For full contents and more information, visit: www.routledge.com/9781032853482

Advances using AI - The Next Wave



Edited by **Vanamali Somanchi**, **Richard R. Khan**, **Tulay Guneyssel**

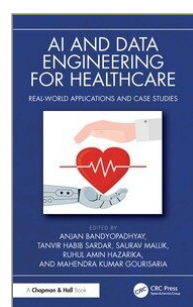
Advances using AI – The Next Wave offers a timely and comprehensive exploration of the latest breakthroughs and future directions in Artificial Intelligence, presenting a forward-looking perspective on how AI is reshaping industries and daily life. This essential volume brings together expert insights on AI's practical applications, ethical considerations, and its profound impact on society, making complex concepts accessible and relevant. This book is indispensable for AI professionals, researchers, academics, policymakers, students, and anyone eager to grasp the current state and future potential of Artificial Intelligence across diverse sectors.

Chapman & Hall
February 2026 : 296pp
Pb: 978-1-041-23740-2 : **\$66.99**
Hb: 978-1-041-23699-3 : **\$150**

* For full contents and more information, visit: www.routledge.com/9781041237402

AI and Data Engineering for Healthcare

Real-World Applications and Case Studies



Edited by **Anjan Bandyopadhyay**, **Tanvir Habib Sardar**, **Saurav Mallik** University of Arizona, US, **Ruhul Amin Hazarika**, **Mahendra Kumar Gourisaria**

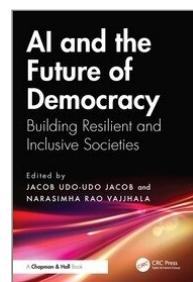
This book examines the transformative role of artificial intelligence (AI) and data engineering in revolutionizing the healthcare landscape. It presents cutting-edge developments ranging from predictive algorithms for disease diagnosis to large-scale data systems that enhance patient outcomes. By emphasizing the synergy between AI and data engineering, the book showcases practical applications in medical imaging, clinical diagnostics, and personalized treatment strategies. It also thoughtfully examines ethical considerations, data privacy, and healthcare equity, particularly in underserved and rural populations.

Chapman & Hall
December 2025 : 424pp
Hb: 978-1-032-98846-7 : **\$190**

* For full contents and more information, visit: www.routledge.com/9781032988467

AI and the Future of Democracy

Building Resilient and Inclusive Societies



Edited by **Jacob Udo-Udo Jacob**, **Narasimha Rao Vajjhala** University of New York Tirana, Albania

This comprehensive volume examines how artificial intelligence (AI) can either strengthen or undermine democratic society. It introduces groundbreaking frameworks including "AI-Enhanced Reflexive Control" (AIRC), and categorizes vulnerable democracies into three types: underdeveloped, strained, and stressed, each of which facing unique AI-related challenges. Featuring accessible introductions to AI topics, real-world case studies, and actionable policy recommendations, this volume serves as an essential guide for policymakers, technologists, and those studying AI's complex relationship with democratic governance.

Chapman & Hall
November 2025 : 228pp
Hb: 978-1-032-97530-6 : **\$140**
eBook: 978-1-003-59418-5

* For full contents and more information, visit: www.routledge.com/9781032975306

AI Applications in Business

Beyond Silicon Valley and Western Frameworks



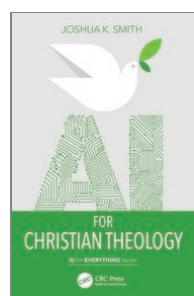
Vicki Liu

This book offers a unique perspective on how ancient philosophies hold the key to AI success. From Chinese wu wei (effortless action) to Japanese kaizen (continuous improvement) to South African ubuntu (interconnectedness), time-tested wisdom offers powerful frameworks for navigating AI's promises and pitfalls. Whether you're a CEO, manager, or entrepreneur, this book provides cultural insights and practical frameworks you need to deploy AI thoughtfully, strategically, and successfully.

Chapman & Hall
April 2026 : 224pp
Pb: 978-1-041-08288-0 : **\$66.99**
Hb: 978-1-041-08289-7 : **\$160**

* For full contents and more information, visit: www.routledge.com/9781041082880

AI for Christian Theology



Joshua K. Smith

Series: *AI for Everything*

What if theology was never meant to be static? What happens when the act of faith is reimagined across generations, cultures, and now, code? How can diverse theological perspectives work together to build ethical AI? This book explores how AI offers a new lens for understanding faith, challenging communities to see theology as a dynamic, creative process rather than a static tradition. This book examines how Christianity itself is a tradition of reimagining and reinventing. From Scripture woven from fragments of law, prophecy, and poetry to Christ as the Logos made flesh, faith has always been transmitted, transformed, and re-voiced in response to new contexts.

CRC Press
April 2026 : 120pp
Pb: 978-1-032-32969-7 : **\$29.99**
Hb: 978-1-032-32971-0 : **\$160**

* For full contents and more information, visit: www.routledge.com/9781032329697

AI Forensics

Investigation and Analysis of Artificial Intelligence Systems



Joseph C. Sremack

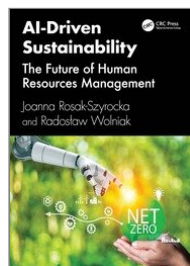
AI Forensics provides the first comprehensive framework for investigating artificial intelligence systems when they fail, cause harm, or become subjects of legal or regulatory scrutiny. As AI systems power critical decisions, traditional digital forensics proves inadequate for understanding their complex, opaque, and dynamic behaviors. This practical guide equips forensic investigators, legal professionals, and AI practitioners with specialized methodologies tailored to AI's unique characteristics. It provides both technical depth for expert practitioners and accessible explanations for legal professionals who must understand and present AI evidence in court proceedings.

Chapman & Hall
March 2026 : 440pp
Pb: 978-1-041-06303-2 : **\$66.99**
Hb: 978-1-041-06304-9 : **\$150**

* For full contents and more information, visit: www.routledge.com/9781041063032

AI-Driven Sustainability

The Future of Human Resources Management



Joanna Rosak-Szyrocka , Radosław Wolniak

This book provides an interdisciplinary and practice-oriented exploration of how artificial intelligence (AI) might be used in human resource management (HRM) in order to ensure organizations' sustainability. It discusses AI applications such as recruitment, talent development, workforce planning, employee wellness, and performance analytics. An indispensable resource-cum-indispensable source book for HR practitioners, policymakers, and researchers that seamlessly blends sound scholarship with practical, real-world observations.

CRC Press

November 2025 : 224pp

Pb: 978-1-041-13103-8 : \$66.99

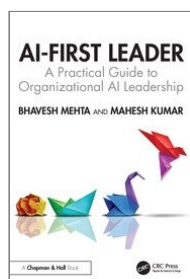
Hb: 978-1-041-13143-4 : \$150

eBook: 978-1-003-66828-2

* For full contents and more information, visit: www.routledge.com/9781041131038

AI-First Leader

A Practical Guide to Organizational AI Leadership



Bhavesh Mehta , Mahesh Kumar

AI-First Leader is a practical guide for executives, technology leaders, and decision-makers seeking to turn artificial intelligence into a strategic advantage. As AI rapidly reshapes how organizations operate and compete, this book provides a clear roadmap from initial awareness to enterprise-wide adoption. It equips leaders with the tools to navigate both the promise and complexity of today's AI landscape, including machine learning, generative AI, and autonomous systems.

Chapman & Hall

October 2025 : 232pp

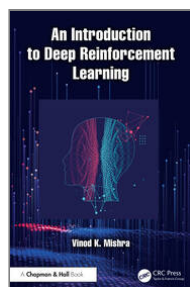
Pb: 978-1-041-09823-2 : \$66.99

Hb: 978-1-041-09825-6 : \$180

eBook: 978-1-003-65196-3

* For full contents and more information, visit: www.routledge.com/9781041098232

An Introduction to Deep Reinforcement Learning



Vinod K. Mishra

This book shows how artificial intelligence and machine learning (AIML) tools have transformed the workings of vast swaths of our private, working, and social lives beyond recognition. It homes in on deep reinforcement learning (DRL) with a special focus on its mathematical and algorithmic foundations. Undergraduate and early graduate students should find it to be a good guide to the fast-developing areas of DRL and its myriad applications. Hopefully, it will spur them to dive deep and understand the coming revolution in every aspect of society based on these ideas.

Chapman & Hall

December 2025 : 204pp

Pb: 978-1-032-65143-9 : \$59.95

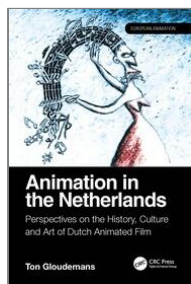
Hb: 978-1-032-65979-4 : \$160

eBook: 978-1-032-65980-0

* For full contents and more information, visit: www.routledge.com/9781032651439

Animation in the Netherlands

Perspectives on the History, Culture and Art of Dutch Animated Film



Ton Gloudemans

Series: European Animation

This book uncovers the rich, often overlooked history of Dutch animation, offering fresh insights into the films and the cultural and political influences that shaped them. Enriched with film stills, sketches, and behind-the-scenes visuals, it culminates in eighteen personal filmmaker profiles, exploring their inspirations and creative journeys. This book will be of great interest to academics, students, and professionals working and researching in the field of animation.

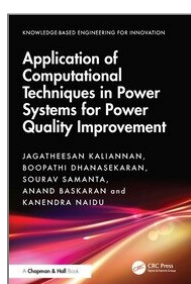
CRC Press

December 2025 : 284pp

Hb: 978-1-032-57940-5 : \$110

* For full contents and more information, visit: www.routledge.com/9781032579405

Application of Computational Techniques in Power Systems for Power Quality Improvement



Jagatheesan Kaliannan , Boopathi Dhanasekaran , Sourav Samanta , Anand Baskaran , Kanendra Naidu

Series: Knowledge-based Engineering for Innovation

This book explores the role of computational intelligence techniques in addressing power quality challenges in modern power systems. It examines the integration of multiple energy sources, renewable energy systems, and energy storage units while analysing nonlinearities in power plants. The book introduces optimisation methods, including machine learning, genetic algorithms, and neural networks, to enhance power system stability, reliability, and efficiency. It bridges theoretical insights with real-world applications in modern power networks.

Chapman & Hall

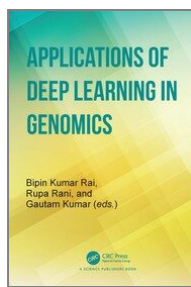
December 2025 : 134pp

Hb: 978-1-041-10944-0 : \$99.99

eBook: 978-1-003-66115-3

* For full contents and more information, visit: www.routledge.com/9781041109440

Applications of Deep Learning in Genomics



Edited by Bipin Kumar Rai Dayananda Sagar Uni, India,
Rupa Rani Ajay Kumar Garg Engineering College, India,
Gautam Kumar

Uses advanced deep learning techniques to unlock the complexities of genomic data, reveals hidden patterns, improves our understanding of genetic contributions to diseases, speeds up drug discovery processes and addresses challenges posed by large genomic datasets. The book investigates future frontiers such as quantum computing and multi-omics integration, and presents a picture of the genetic environment to advance enhanced genomics, enabling more precise forecasts, and personalised therapies.

CRC Press

November 2025 : 268pp

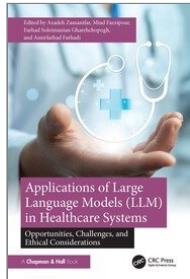
Hb: 978-1-032-87833-1 : \$140

eBook: 978-1-003-55883-5

* For full contents and more information, visit: www.routledge.com/9781032878331

Applications of Large Language Models (LLM) in Healthcare Systems

Opportunities, Challenges, and Ethical Considerations



Edited by **Azadeh Zamanifar**, **Miad Faezipour**, **Farhad Soleimanian Gharehchopogh**, **Amirfarhad Farhadi**

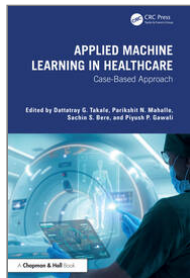
This book offers a comprehensive exploration into the role of Large Language Models (LLMs) in modern healthcare. It focuses specifically on the lifecycle of LLM deployment in healthcare settings, including transparency, accountability, data privacy, and regulatory compliance to ensure safe and effective use. By bridging the gap between technical artificial intelligence (AI) development and clinical application, this book highlights the critical collaboration between clinicians and data scientists to create representative datasets and fine-tune models for clinical accuracy and interpretability.

Chapman & Hall
November 2025 : 304pp
Hb: 978-1-041-12491-7 : **\$140**
eBook: 978-1-003-66508-3

* For full contents and more information, visit: www.routledge.com/9781041124917

Applied Machine Learning in Healthcare

Case-Based Approach



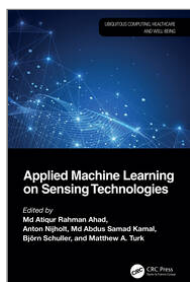
Edited by **Dattatray G. Takale**, **Parikshit N Mahalle** VIIT, Pune, **Sachin S. Bere**, **Piyush P. Gawali**

This book explores the latest advancements in machine learning techniques and their transformative applications in the healthcare domain. It delves into the use of machine learning for disease diagnosis and prognosis, showcasing its potential to enable accurate disease identification, effective risk stratification, and personalised treatment planning. The role of machine learning in enhancing clinical decision support systems (CDSS) is examined in detail, with a focus on its impact on informed decision-making, predictive modeling, and real-time patient monitoring.

Chapman & Hall
December 2025 : 366pp
Hb: 978-1-032-76594-5 : **\$180**

* For full contents and more information, visit: www.routledge.com/9781032765945

Applied Machine Learning on Sensing Technologies



Edited by **Md Atiqur Rahman Ahad**, **Anton Nijholt**, **Md Abdus Samad Kamal**, **Björn Schuller**, **Matthew A. Turk**

Series: *Ubiquitous Computing, Healthcare and Well-being*

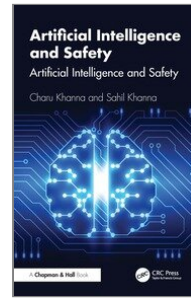
The book will be related to applied machine learning and deep learning in the field of sensing, vision and sensor-based applications. Apart from a series of methodologies, it will have some- original methods,- exploration of new applications,- presentations on relevant datasets,- challenging applications,- ideas and future scopes with some guidelines. The editors are top experts in these arenas and published

CRC Press
May 2026 : 236pp
Hb: 978-1-032-76642-3 : **\$180**

* For full contents and more information, visit: www.routledge.com/9781032766423

Artificial Intelligence and Safety

A Practical Guide for Programmers and Decision Makers



Charu Khanna, **Sahil Khanna**

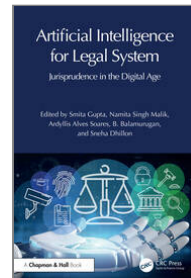
In a world where machines learn, evolve, and sometimes outthink us, Artificial Intelligence and Safety offers a rare, integrated lens into both the power and peril of intelligent systems. Drawing on the authors' unique blend of programming mastery and enterprise risk leadership, this is your compass in the age of intelligent machines. This guide demystifies AI for everyone—from software architects to policymakers and risk managers. Whether you're crafting LLMs or setting enterprise policy, it empowers you to not only ask the right questions but build the right systems, because the future of AI isn't just about building intelligence, it's about building it responsibly.

Chapman & Hall
March 2026 : 272pp
Pb: 978-1-003-86338-0 : **\$66.99**
Hb: 978-1-003-86339-7 : **\$150**

* For full contents and more information, visit: www.routledge.com/9781003863380

Artificial Intelligence for Legal System

Jurisprudence in the Digital Age



Edited by **Smita Gupta**, **Namita Singh Malik** Galgotias Uni., **Ardyllis Alves Soares**, **B. Balamurugan** SNU, Gr. Noida, **Sneha Dhillon**

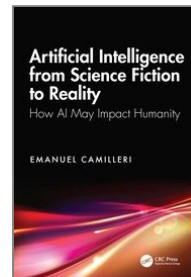
Artificial intelligence and technological advancements are continuously transforming the discipline of law in contemporary times. This book offers practical insights to the reader as to how technology is influencing the judicial and criminal justice system throughout the world. It includes case studies explaining and depicting real time application of legal technological advancements from different countries. The book is useful for researchers, scholars and practitioners working in Law & Technology and Information Technology.

Chapman & Hall
December 2025 : 216pp
Hb: 978-1-032-77673-6 : **\$160**
eBook: 978-1-003-49190-3

* For full contents and more information, visit: www.routledge.com/9781032776736

Artificial Intelligence from Science Fiction to Reality

How AI May Impact Humanity



Emanuel Camilleri

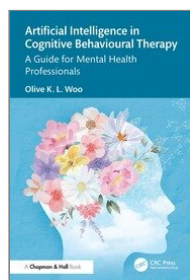
Artificial Intelligence from Science Fiction to Reality examines various aspects, starting with the evolution of human and artificial intelligence. It places AI in its proper context and discusses non-technical aspects, such as philosophical and social issues. The book also focuses on the hardware and software technology that support AI, and the essential cyber security systems that are required to address the evolving AI threat landscape. It examines centres for AI safety that are nonprofit research organisations, which focus on the mitigation of AI risks by proposing solutions against threat actors.

CRC Press
November 2025 : 395pp
Pb: 978-1-041-10141-3 : **\$66.99**
Hb: 978-1-041-10216-8 : **\$190**
eBook: 978-1-003-65395-0

* For full contents and more information, visit: www.routledge.com/9781041101413

Artificial Intelligence in Cognitive Behavioural Therapy

A Guide for Mental Health Professionals



Olive K. L. Woo Private practice, Hong Kong

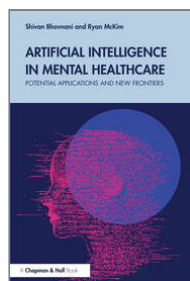
Bridges the gap between artificial intelligence (AI) and cognitive behavioral therapy (CBT). Designed for mental health professionals.

Chapman & Hall
November 2025 : 229pp
Pb: 978-1-032-87151-6 : **\$66.99**
Hb: 978-1-032-87154-7 : **\$180**
eBook: 978-1-003-53116-6

* For full contents and more information, visit: www.routledge.com/9781032871516

Artificial Intelligence in Mental Healthcare

Potential Applications and New Frontiers



Shivan Bhavnani , Ryan McKim

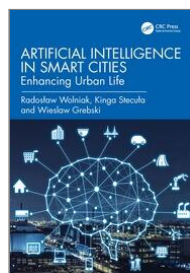
This book navigates the intricacies of AI in all stages of the patient journey from diagnosis, treatment, and prevention, offering a holistic view of the future of mental and behavioral healthcare. It explores how AI is revolutionizing key therapeutic areas within mental health, like substance misuse, anxiety disorders, and mood disorders. It also assesses use cases in back office and non-patient-facing areas including reimbursement processes, data collection and management, and revenue cycle management. Chapters are supplemented with a variety of real-world case studies that highlight the practical implications of AI in clinical and non-clinical settings.

Chapman & Hall
February 2026 : 192pp
Hb: 978-1-032-93288-0 : **\$150**

* For full contents and more information, visit: www.routledge.com/9781032932880

Artificial Intelligence in Smart Cities

Enhancing Urban Life



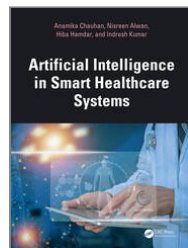
Radosław Wolniak , Kinga Stecula , Wiesław Grebski

Artificial Intelligence in Smart Cities presents an interdisciplinary and comprehensive analysis of how AI re-engineers urban life, governance, and infrastructure. The book explores key thematic areas including smart government, economy, environment, living, people, cybersecurity, and innovation, complemented by Central European empirical case studies.

CRC Press
February 2026 : 224pp
Pb: 978-1-032-96019-7 : **\$66.99**
Hb: 978-1-032-96021-0 : **\$170**

* For full contents and more information, visit: www.routledge.com/9781032960197

Artificial Intelligence in Smart Healthcare Systems



Edited by **Anamika Chauhan , Nisreen Alwan , Hiba Hamdar , Indresh Kumar**

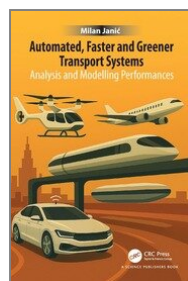
This book provides a holistic examination of artificial intelligence in healthcare, covering a wide spectrum of applications rather than focusing on isolated aspects. By showcasing how AI is currently being applied in diverse healthcare scenarios, the book ensures that readers can connect theoretical concepts to tangible, real-life outcomes, enhancing their understanding and facilitating practical application.

CRC Press
February 2026 : 352pp
Hb: 978-1-032-87417-3 : **\$150**

* For full contents and more information, visit: www.routledge.com/9781032874173

Automated, Faster and Greener Transport Systems

Analysis and Modelling Performances



Milan Janić Delft University of Technology, The Netherlands

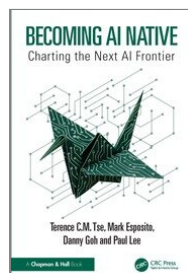
Evaluates the performances of existing and future transport systems, based on the level of automation, operating speed, and greening effect. The road-based automated and electric cars, rail-based HSR (High-Speed Rail) and Maglev, air-based UAM (Urban Air Mobility) and supersonic LH2 (Liquid Hydrogen) powered SCAT (Supersonic Commercial Air Transport) and evacuated - HYP (Hyperloop) and submerged ETT (Evacuated Tube Transport) systems are reviewed. The infrastructural, technical, operational, economic, environmental, social, and policy performances are analysed, and analytical models of indicators have been developed.

CRC Press
December 2025 : 564pp
Hb: 978-1-032-80688-4 : **\$180**
eBook: 978-1-003-50433-7

* For full contents and more information, visit: www.routledge.com/9781032806884

Becoming AI Native

Charting the Next AI Frontier



Terence C.M. Tse , Mark Esposito , Danny Goh , Paul Lee

This engaging guide is designed to demystify artificial intelligence (AI) in the business world, no advanced maths degrees or robotic companions are necessary. It tackles everything from traditional AI to the exciting realm of Generative AI, clearly distinguishing between what is genuinely beneficial and what is merely hype, all while demonstrating how to leverage AI to address real-world business challenges.

Chapman & Hall
February 2026 : 190pp
Pb: 978-1-032-90763-5 : **\$66.99**
Hb: 978-1-032-90764-2 : **\$160**

* For full contents and more information, visit: www.routledge.com/9781032907635

Becoming Homo lucidus



Min Ding Pennsylvania State University, US

What happens when humanity steps beyond the limits of biology and creates intelligence greater than its own? *Becoming Homo lucidus* offers a bold vision of that future and a roadmap for how to prepare. The book traces humanity's journey from Biological Intelligence (BI) to Digital Intelligence (DI), showing how the two will converge to usher in Homo lucidus. If you wonder what the rise of Digital Intelligence (DI) means for your life, your children, or the world you live in, this is both a guide and an invitation: to endure until 2035, navigate the turbulent transition to 2045, and prosper in lifespans that may extend for centuries and more.

Chapman & Hall
February 2026 : 232pp
Pb: 978-1-041-19241-1 : **\$49.99**
Hb: 978-1-041-19313-5 : **\$150**

* For full contents and more information, visit: www.routledge.com/9781041192411

Before, After, and Beyond AlphaGo



Woosuk Park

This book is a unique exploration designed for both philosophers and Baduk (Go, Weiqi) players, bridging two worlds that rarely intersect. AlphaGo, the groundbreaking AI, has been both a challenge and a revelation for these communities. As someone who belongs to both groups, the author feels a profound responsibility to connect them and share insights that resonate across disciplines. This book is not just for philosophers or Go players—it is for anyone seeking to understand the profound implications of AI on human thought, interaction, and the future of our species.

CRC Press
April 2026 : 248pp
Hb: 978-1-041-15351-1 : **\$140**

* For full contents and more information, visit: www.routledge.com/9781041153511

Bioinformatics of Autoimmune Diseases



Hamid D. Ismail

Series: Chapman & Hall/CRC Computational Biology Series

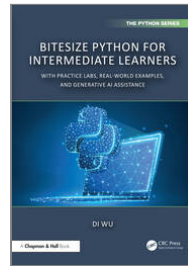
Bioinformatics of Autoimmune Diseases is a timely and comprehensive guide that explores not only the immunological basis of these disorders but also the cutting-edge bioinformatics approaches used to analyze the genomic, transcriptomic, and epigenomic data driving modern discovery.

CRC Press
February 2026 : 372pp
Pb: 978-1-041-16611-5 : **\$105**
Hb: 978-1-041-16610-8 : **\$250**

* For full contents and more information, visit: www.routledge.com/9781041166115

BiteSize Python for Intermediate Learners

With Practice Labs, Real-World Examples, and ChatGPT



Di Wu

Series: Chapman & Hall/CRC The Python Series

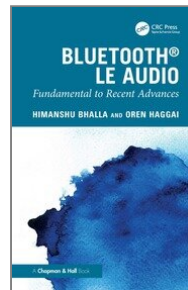
This book is designed for intermediate learners with a basic understanding of Python. It allows readers to take a slow and steady approach to building upon their understanding of Python code. Python programming is broken down into easily digestible lessons of less than 5 minutes each, following a tried and tested BiteSize approach. The reader will also play with case studies to solve real-world problems. Tips on how to incorporate Generative AI into a learning toolkit are provided, for purposes like feedback, practice exercises, code reviews, and exploring advanced topics. Recommended AI prompts can help readers identify areas for improvement, review key concepts, and track progress.

Chapman & Hall
March 2026 : 352pp
Pb: 978-1-041-03682-1 : **\$66.99**
Hb: 978-1-041-03684-5 : **\$180**

* For full contents and more information, visit: www.routledge.com/9781041036821

Bluetooth LE Audio

Fundamental to Recent Advances



Himanshu Bhalla , Oren Haggai

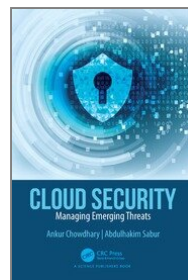
This book unravels the technical intricacies and recent developments of Bluetooth® LE Audio technology. Covering everything from the radio frequency model and LC3 codec to application profiles and use cases, it provides a deep dive into the new architecture that is transforming wireless audio. It offers clear insights into the transition from Bluetooth® Classic to LE Audio, emphasising power efficiency, new features like Auracast™ broadcast audio, and the innovative potential of LE Audio in various devices. This book is a must-read for developers and engineers seeking to master the latest advancements in Bluetooth technology.

Chapman & Hall
December 2025 : 152pp
Hb: 978-1-032-96619-9 : **\$84.99**
eBook: 978-1-003-59018-7

* For full contents and more information, visit: www.routledge.com/9781032966199

Cloud Security

Managing Emerging Threats



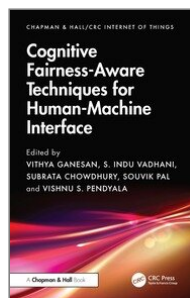
Ankur Chowdhary , Abdulhakim Sabur Taibah University, Saudi Arabia

This book offers a hands-on guide to cloud security from both offensive and defensive perspectives. It explores real-world threats like phishing, data exfiltration, and zero-day exploits, while equipping professionals with tools for threat modeling, DevSecOps, and penetration testing. Learn how to tackle authentication gaps, manage vulnerabilities, enforce zero-trust, and respond to incidents at scale. With AI-powered automation, compliance insights, and practical case studies, this book is a must-read for modern cloud security professionals.

CRC Press
December 2025 : 300pp
Hb: 978-1-032-47078-8 : **\$140**
eBook: 978-1-003-38449-6

* For full contents and more information, visit: www.routledge.com/9781032470788

Cognitive Fairness-Aware Techniques for Human-Machine Interface



Edited by **Vithya Ganesan , S. Indu Vadhani , Subrata Chowdhury , Souvik Pal** Assistant Professor, JIS College of Engineering, WB, India, **Vishnu S. Pendyala**

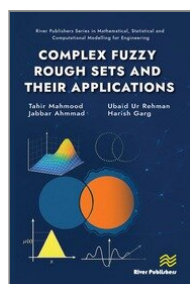
Series: Chapman & Hall/CRC Internet of Things

This book explores the critical issue of fairness in human-machine interfaces. It delves into the integration of technology and cognitive science to develop AI systems that are unbiased, reliable, and user-friendly. The book also sheds light on emotional data processing in AI accelerators and federated learning modules. Additionally, it covers machine learning, knowledge representation, and the application of knowledge graphs to understand and optimize the behaviour of AI assistance devices.

Chapman & Hall
December 2025 : 372pp
Hb: 978-1-032-76709-3 : \$180

* For full contents and more information, visit: www.routledge.com/9781032767093

Complex Fuzzy Rough Sets and Their Applications



Tahir Mahmood , Jabbar Ahmmad , Ubaid Ur Rehman , Harish Garg

Series: River Publishers Series in Mathematical, Statistical and Computational Modelling for Engineering

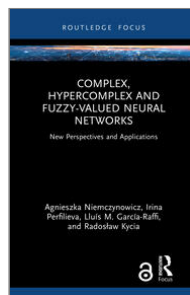
This book explains the foundational principles of fuzzy algebra, including fuzzy sets, fuzzy operations, and fuzzy relations. It shows how fuzzy algebra can be applied in artificial intelligence, particularly in areas such as decision-making, pattern recognition, and machine learning, where uncertainty and imprecision are common. It demonstrates the use of fuzzy algebra in engineering disciplines, such as control systems, cybersecurity, signal processing, and robotics, where fuzzy logic can be used to model and solve complex and real-world problems. This makes the book valuable not just for process engineers, but also for researchers in multiple domains.

River Publishers
January 2026 : 204pp
Hb: 978-8-743-80781-0 : \$130

* For full contents and more information, visit: www.routledge.com/9788743807810

Complex, Hypercomplex and Fuzzy-Valued Neural Networks

New Perspectives and Applications



Agnieszka Niemczynowicz , Irina Perfilieva , Lluís M. García-Raffi , Radosław Kycia

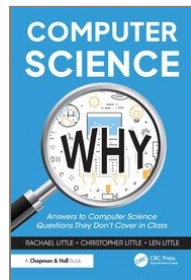
This book explores the evolving landscape of neural network research, introducing readers to innovative mathematical approaches that extend beyond standard real-valued models. It is designed for researchers, advanced students, and professionals interested in cutting-edge techniques that combine theory with practical applications in artificial intelligence and machine learning.

Routledge
November 2025 : 182pp
Hb: 978-1-032-84714-6 : \$68.99

* For full contents and more information, visit: www.routledge.com/9781032847146

Computer Science Why

Answers to Computer Science Questions They Don't Cover in Class



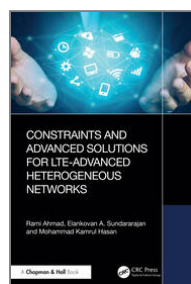
Rachael Little , Christopher Little , Len Little

CS Why is a book that presents a straightforward, curiosity-based approach to filling in the blanks around common, introductory material taught in Computer Science classes. If you have ever wondered "why is that?" about a programming phenomenon, historical tidbit, or common terminology, this book may have an answer that explains it. Perfect for both students and IT professionals, this book provides the clear "why" to answer so many unstated CS questions. Take any example in the book, from base 2 to timezones, and you will have an answer that cements your insight on the "why" of the topic, reinforcing your rote memorization with deeper understanding and insight.

Chapman & Hall
March 2026 : 150pp
Pb: 978-1-032-85674-2 : \$66.99
Hb: 978-1-032-85675-9 : \$190

* For full contents and more information, visit: www.routledge.com/9781032856742

Constraints and Advanced Solutions for LTE-Advanced Heterogeneous Networks



Rami Ahmad , Elankovan A. Sundararajan , Mohammad Kamrul Hasan

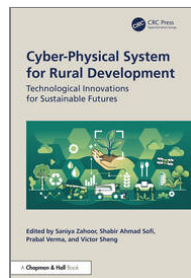
The book presents advanced techniques for enhancing mobility management across evolving wireless systems, including 5G and beyond. It introduces innovative handover decision algorithms that leverage user movement patterns, historical data, and multi-criteria optimisation to improve the reliability and efficiency of both horizontal and vertical handovers. Focusing on dense femtocell-macrocell environments, the book proposes refined handover parameters and distance-based vertical handover methods for small-cell transitions.

Chapman & Hall
November 2025 : 168pp
Hb: 978-1-041-08669-7 : \$150

* For full contents and more information, visit: www.routledge.com/9781041086697

Cyber-Physical System for Rural Development

Technological Innovations for Sustainable Futures



Edited by **Saniya Zahoor , Shabir Ahmad Sofi , Prabal Verma , Victor Sheng**

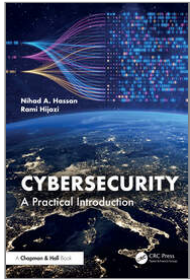
This book examines the potential benefits of cyber-physical systems (CPS) and applications for rural development. It provides an in-depth examination of theoretical concepts, in addition to presenting real-world case studies and methodological frameworks and ways of enabling effective CPS deployments in remote areas. From precision agriculture to remote healthcare, to connectivity challenges, the book highlights practical applications of Cyber-Physical Systems (CPS) and focuses on solutions to the promotion of inclusive growth.

Chapman & Hall
November 2025 : 302pp
Hb: 978-1-032-88411-0 : \$160
eBook: 978-1-003-53763-2

* For full contents and more information, visit: www.routledge.com/9781032884110

Cybersecurity

A Practical Introduction



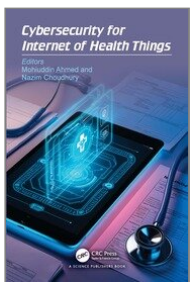
Nihad A. Hassan , Rami Hijazi

In today's hyperconnected world, digital threats lurk in every corner of cyberspace. This comprehensive guide equips you with essential knowledge to identify, mitigate and counter cyber threats, navigating the increasingly dangerous digital landscape. Whether you're securing personal devices against tracking, protecting enterprise networks from nation-state actors, or building comprehensive defense strategies, this book is for working professionals, computing specialists, and IT enthusiasts, providing you with practical, actionable knowledge for today's security challenges.

Chapman & Hall
December 2025 : 278pp
Pb: 978-0-367-44110-4 : **\$66.99**
Hb: 978-0-367-44214-9 : **\$150**
eBook: 978-1-003-00827-9

* For full contents and more information, visit: www.routledge.com/9780367441104

Cybersecurity for Internet of Health Things



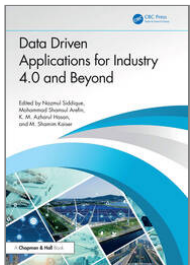
Edited by **Mohiuddin Ahmed** Edith Cowen University, Australia, **Nazim Choudhury** University of Wisconsin, USA

Digital healthcare is an important aspect of the modern age. However, cybercriminals are motivated to disrupt this critical infrastructure due to the high return on investment. It is imperative that industry practitioners, academics, and the government work together to address the challenges associated with healthcare. This book covers the evolution, trends, techniques, countermeasures, and open research directions in futuristic healthcare. In addition, it will serve as an important reference for knowledge.

CRC Press
November 2025 : 370pp
Hb: 978-1-032-74903-7 : **\$140**
eBook: 978-1-003-48326-7

* For full contents and more information, visit: www.routledge.com/9781032749037

Data Driven Applications for Industry 4.0 and Beyond



Edited by **Nazmul Siddique** University of Ulster, Magee, UK, **Mohammad Shamsul Arefin** , **K.M. Azharul Hasan** , **M. Shamim Kaiser** Institute of Information Technology, Jahangirnagar University, Bangladesh

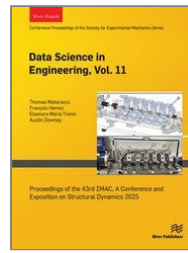
The increasing reliance on automation and data-driven decision-making is transforming industries. This book explores how data-driven approaches are being applied in various fields to solve real-world challenges. With contributions from researchers and professional, it discusses practical applications of modern computational techniques. The book also emphasizes the importance of responsible and interpretable technology to ensure fairness and transparency. This book is a valuable resource for students, researchers, and professionals looking to understand the evolving role of data in industry.

Chapman & Hall
December 2025 : 304pp
Hb: 978-1-032-64336-6 : **\$150**
eBook: 978-1-032-64870-5

* For full contents and more information, visit: www.routledge.com/9781032643366

Data Science in Engineering, Vol. 11

Proceedings of the 43rd IMAC, A Conference and Exposition on Structural Dynamics 2025



Edited by **Thomas Matarazzo** , **François Hemez** , **Eleonora Maria Tronci** , **Austin Downey**

Data Science in Engineering, Volume 11: Proceedings of the 43rd IMAC, A Conference and Exposition on Structural Dynamics, 2025, the eleventh volume of twelve from the Conference brings together contributions to this important area of research and engineering. The collection presents early findings and case studies on fundamental and applied aspects of Data Science in Engineering.

River Publishers
January 2026 : 54pp
Hb: 978-8-743-80156-6 : **\$130**

* For full contents and more information, visit: www.routledge.com/9788743801566

Deep Learning Applications

Select Topics



Edited by **Laith Abualigah**

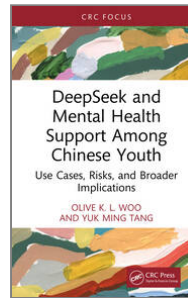
The book is a practical and comprehensive guide to the impact of deep learning in the real world across sectors like healthcare, finance, and autonomous systems. Covering CNNs, RNNs, GANs, and reinforcement learning, the book combines theory with expert insights and case studies. Designed for researchers, practitioners, and students, it highlights how AI is transforming industries through innovative applications and intelligent solutions.

CRC Press
January 2026 : 168pp
Hb: 978-1-041-10572-5 : **\$140**

* For full contents and more information, visit: www.routledge.com/9781041105725

DeepSeek and Mental Health Support Among Chinese Youth

Use Cases, Risks, and Broader Implications



Olive K. L. Woo Private practice, Hong Kong, **Yuk Ming Tang**

DeepSeek and Mental Health Support Among Chinese Youth: Use Cases, Risks, and Broader Implications explores how artificial intelligence is revolutionizing mental health care, providing innovative solutions to some of humanity's most pressing emotional challenges. In a society where stigma, cultural barriers, and insufficient resources prevent countless people from seeking help, DeepSeek has emerged as a lifeline, offering accessible, empathetic, and culturally tailored emotional support to millions.

CRC Press
February 2026 : 100pp
Hb: 978-1-041-09244-5 : **\$68.99**

* For full contents and more information, visit: www.routledge.com/9781041092445

DeepSeek in Action

LLM Deployment, Fine-Tuning, and Application



Jing Dai

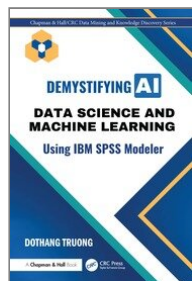
From fundamental concepts to advanced implementations, this book thoroughly explores the DeepSeek-V3 model, focusing on its Transformer-based architecture, technological innovations, and applications. This book is aimed primarily at AI researchers and developers working on large-scale AI models. It is an invaluable resource for professionals seeking to understand the theoretical underpinnings and practical implementation of advanced AI systems, particularly those interested in efficient, scalable applications.

CRC Press
November 2025 : 394pp
Hb: 978-1-041-09000-7 : **\$180**
eBook: 978-1-003-67470-2

* For full contents and more information, visit: www.routledge.com/9781041090007

Demystifying AI

Data Science and Machine Learning Using IBM SPSS Modeler



Dothang Truong

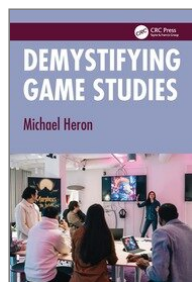
Series: Chapman & Hall/CRC Data Mining and Knowledge Discovery Series

In this book, readers are guided through practical implementations using real datasets and SPSS Modeler, a user-friendly data mining tool. The approach remains consistent with a focus on application, providing step-by-step instructions for all stages of the data mining process using two large datasets, ensuring continuity and reinforcing concepts in a cohesive project framework. This book is a companion for beginners and experienced practitioners alike. It targets a broad audience, including students, lecturers, researchers, and industry professionals. It offers flexibility in learning pathways and deepens understanding of data science using easy-to-follow, software-based approaches.

Chapman & Hall
December 2025 : 616pp
Hb: 978-1-032-74000-3 : **\$120**
eBook: 978-1-003-46819-6

* For full contents and more information, visit: www.routledge.com/9781032740003

Demystifying Game Studies



Michael Heron Chalmers University of Technology / University of Gothenburg, Sweden

This book is an introduction to game studies, written in an approachable way that outlines useful perspectives that readers can use to interrogate games as a primary text. It provides the reader with a toolset that can 'level up' their own critical perspectives. This book will be suitable for students in games-related courses at multiple levels of the curriculum, game critics, and those that simply want to develop more interesting and nuanced opinions on games.

CRC Press
December 2025 : 302pp
Pb: 978-1-032-86857-8 : **\$66.99**
Hb: 978-1-032-86985-8 : **\$170**

* For full contents and more information, visit: www.routledge.com/9781032868578

2ND EDITION

Designing the User Experience of Game Development Tools



David Lightbown

This is the definitive guide on how to design game development tools. The book begins with the foundations of user experience and how they apply to game development tools, then guides you through the User-Centered Design process – the gold standard in user experience design – which involves watching users work, understanding their goals, designing efficient and learnable user interfaces, and refining them through targeted evaluation techniques. The book is ideal for anyone who makes, uses, or benefits from game development tools. It explains complex concepts in a clear, accessible way and shares proven techniques backed by real-world examples and extensive references.

A K Peters/CRC Press
December 2025 : 244pp
Pb: 978-1-032-98260-1 : **\$66.99**
Hb: 978-1-032-98258-8 : **\$170**

* For full contents and more information, visit: www.routledge.com/9781032982601

Digital Accessibility Ethics

Disability Inclusion in All Things Tech



Edited by **Lainey Feingold , Reginé Gilbert , Chancey Fleet**

Digital Accessibility Ethics is a practical guide with an urgent goal: to help end tech exclusion of 1.3 billion people across the world with disabilities. The book introduces the first Digital Accessibility Ethics Framework – an action-oriented, three-part tool designed to influence, change, and disrupt patterns of exclusion with values, actions, and questions. This book is for technologists, educators, students, marketers, policy makers and everyone who has ever posted on social media or sent an email. It encourages us to stop and ask ourselves: who are we excluding by our actions? Who are we harming, what are we risking, by our decisions?

Chapman & Hall
March 2026 : 368pp
Pb: 978-1-041-01868-1 : **\$39.99**
Hb: 978-1-041-01869-8 : **\$150**

* For full contents and more information, visit: www.routledge.com/9781041018681

Digital Convergence

Better Solutions for People with Dementia



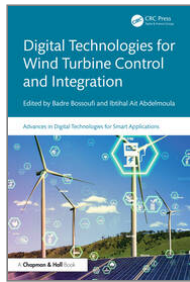
Edited by **Nilmini Wickramasinghe , Thu Ha Dang , Tuan Anh Nguyen , Sasan Adibi**

This book focuses on using analytics and Artificial Intelligence (AI), to offer a high-quality value proposition to address dementia, a growing and concerning global healthcare problem. By enabling better decision support making, minimizing medical errors and use of specific treatment strategies, digital technologies are key to effective care for People Living with Dementia (PLWD). This book is a new and comprehensive text, which would serve as an important resource for practitioners and professionals in healthcare and beneficial as a supplementary text for students undertaking studies relating to health informatics and public healthcare.

CRC Press
December 2025 : 384pp
Pb: 978-1-032-77977-5 : **\$66.99**
Hb: 978-1-032-77978-2 : **\$250**

* For full contents and more information, visit: www.routledge.com/9781032779775

Digital Technologies for Wind Turbine Control and Integration



Edited by **Badre Bossooui , Ibtihal Ait Abdelmoula**

Series: *Advances in Digital Technologies for Smart Applications*

This book examines and develops digital control techniques for wind power systems and their integration into the grid, with the goal of addressing issues related to the efficiency and quality of energy injected into the electrical network. It provides a comprehensive examination of digital control technologies for wind energy systems, covering a range of configurations, including existing ones (DFIG, PMSG, IM, etc.) as well as new ones (VIENNA, Quadri-rotor, etc.). The book discusses various control strategies such as Backstepping, Sliding Mode, and Predictive Control, and explores their development through Artificial Intelligence (AI) and the Internet of Things (IoT).

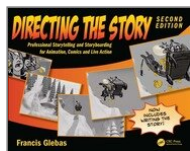
Chapman & Hall
December 2025 : 320pp
Hb: 978-1-032-95785-2 : **\$190**

* For full contents and more information, visit: www.routledge.com/9781032957852

2ND EDITION

Directing the Story

Professional Storytelling and Storyboarding for Animation, Comics and Live Action



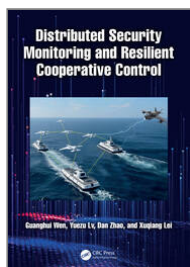
Francis Glebas

This book grew out of desperate need. I was a storyboard artist at Disney and had no idea what I was doing. At Disney I was surrounded by amazing talents. I went into work early and typed up notes on what I was learning. This experience became Directing the Story. I'm currently working on a new theory of story which shows how all the parts of story, character, plot and story work together. I'm including the beginning basics of this theory which allows my students to come up with a story in 7 minutes. Plot takes longer.

CRC Press
November 2025 : 422pp
Pb: 978-1-032-75306-5 : **\$64.99**
Hb: 978-1-032-77373-5 : **\$180**
eBook: 978-1-003-48272-7

* For full contents and more information, visit: www.routledge.com/9781032753065

Distributed Security Monitoring and Resilient Cooperative Control



Guanghui Wen , Yuezuo Lv , Dan Zhao , Xuqiang Lei

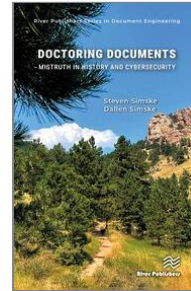
This book systematically addresses the security and resilience of networked agent systems, from sensor networks to general multi-agent systems, against evolving cyber threats. Practical applications range from resilient smart grids and attack-resistant drones to self-healing infrastructures. Rigorous mathematical frameworks, including graph theory and matrix analysis, establish a principled link between theoretical guarantees and the security operations of real-world networked agent systems. This book will appeal to scholars, engineers, and practitioners involved in systems engineering, control theory, cybersecurity, and artificial intelligence.

CRC Press
December 2025 : 288pp
Hb: 978-1-041-03459-9 : **\$84.99**
eBook: 978-1-003-66991-3

* For full contents and more information, visit: www.routledge.com/9781041034599

Doctoring Documents

Mistruth in History and Cybersecurity



Steven Simske , Dallen Simske

Series: *River Publishers Series in Document Engineering*

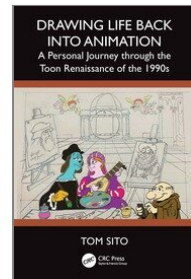
This book explores the primary methods, presented as a set of thirteen patterns, used to insert mistruth in historical narratives. These patterns culminate in the broadest of patterns, versioning and propaganda, which are used to show that mistruth is unavoidable in any historical narrative. This also supports the argument that a primary task of the historian is to provide their own contextual considerations sufficiently to help their readers create their own version. The value of a deep, mistruth-aware analysis of history is thus shown to be crucial for understanding how to protect data of all types in today's electronic society.

River Publishers
December 2025 : 354pp
Hb: 978-8-770-04833-0 : **\$140**
eBook: 978-8-770-04834-7

* For full contents and more information, visit: www.routledge.com/9788770048330

Drawing Life Back Into Animation

A Personal Journey through the Toon Renaissance of the 1990s



Tom Sito

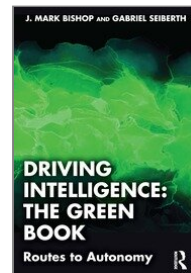
By the 1980s animated cartoons were seen as an artform in decline. An archaic vestige of the old Hollywood studio system. Yet by the 1990s animation was booming. What happened? Join Tom Sito, a veteran Hollywood animator who was there as he takes us deep inside the studio corridors to watch the birth of Roger and Jessica, Bart and Lisa, Woody and Buzz, Shrek, Simba, Mario, Lara Croft and Yu Gi Oh.

CRC Press
March 2026 : 184pp
Pb: 978-1-138-50145-4 : **\$74.99**
Hb: 978-1-138-50147-8 : **\$180**

* For full contents and more information, visit: www.routledge.com/9781138501454

Driving Intelligence: The Green Book

Routes to Autonomy



J. Mark Bishop , Gabriel Seiberth

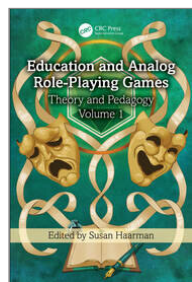
Driving Intelligence takes a critical and captivating tour of autonomous driving, a phenomenon at the intersection of data-driven platforms, artificial (general) intelligence and the mind. The significance of 'Driving Intelligence' resonates beyond specialized circles, encompassing a spectrum of perspectives – historical, economic, scientific, and philosophical. The book addresses the pressing question of success probabilities and socioeconomic impacts, not just for specialists but for a wider audience keen on understanding the evolution of AI and mobility in the 21st century.

Routledge
December 2025 : 264pp
Pb: 978-1-032-91135-9 : **\$48.99**
Hb: 978-1-032-91122-9 : **\$160**
eBook: 978-1-003-56146-0

* For full contents and more information, visit: www.routledge.com/9781032911359

Education and Analog Role-Playing Games

Theory and Pedagogy, Volume 1



Edited by **Susan Haarman**

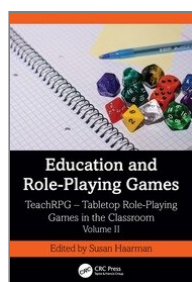
Education and Analog Role-Playing Games: Theory and Pedagogy brings together scholars and educators who explore the educational potential of analog role-playing games (tabletop role-playing games and live action role-play) through the lens of pedagogical theory. It is a valuable resource for educators, game scholars, and instructional designers interested in leveraging narrative, collaboration, and play for powerful learning experiences.

CRC Press
December 2025 : 300pp
Pb: 978-1-041-07607-0 : **\$69.99**
Hb: 978-1-041-07612-4 : **\$180**
eBook: 978-1-003-64135-3

* For full contents and more information, visit: www.routledge.com/9781041076070

Education and Role-Playing Games

TeachRPG – Tabletop Role-Playing Games in the Classroom, Vol II



Edited by **Susan Haarman**

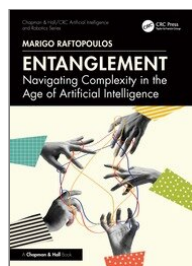
Education and Role-Playing Games: TeachRPG – Tabletop Role-Playing Games in the Classroom, Vol II brings together a diverse group of educators and scholars who are using tabletop RPGs in their classrooms to foster deeper engagement, build community, and support transformative learning. Striking a balance between practical strategies, empirical insight, and personal narrative, Teach RPG provides adaptable models for integrating analog RPGs into a wide range of classrooms. It moves beyond theory or anecdote to show how role-playing can be a rigorous, relational, and inclusive educational practice.

CRC Press
February 2026 : 264pp
Pb: 978-1-041-07614-8 : **\$69.99**
Hb: 978-1-041-07616-2 : **\$180**

* For full contents and more information, visit: www.routledge.com/9781041076148

Entanglement

Navigating Complexity in the Age of Artificial Intelligence



Marigo Raftopoulos

Series: *Chapman & Hall/CRC Artificial Intelligence and Robotics Series*

This book is a message of hope and a call to action in building flourishing human-machine systems in the age of Artificial Intelligence. It looks beyond the AI hype and advocates for humanity in an industry infatuated by machine superiority. Its focus is on empowering leaders and citizens by raising awareness and encouraging active participation in building responsible technology and resilient organizations.

Chapman & Hall
February 2026 : 240pp
Pb: 978-1-032-99642-4 : **\$66.99**
Hb: 978-1-041-01826-1 : **\$170**

* For full contents and more information, visit: www.routledge.com/9781032996424

Ethics and Governance of Artificial Intelligence

Frameworks, Risks, and Society



Manjeet Rege , Hemachandran K

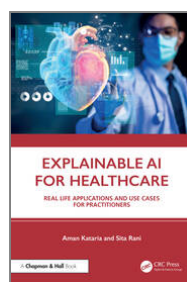
This book offers a comprehensive discussion of the growing importance of ethical considerations in algorithmic systems to introduce practical frameworks and tools for identifying ethical risks, ensuring fair outcomes, and maintaining transparency in algorithmic processes. With a focus on real-world applications and practical solutions, it provides both theoretical insights and actionable strategies for navigating the ethical challenges inherent in algorithmic decision-making systems.

Chapman & Hall
March 2026 : 184pp
Pb: 978-1-041-04702-5 : **\$89**
Hb: 978-1-041-04706-3 : **\$120**

* For full contents and more information, visit: www.routledge.com/9781041047025

Explainable AI for Healthcare

Real Life Applications and Use Cases for Practitioners



Aman Kataria CSIR-Central Scientific Instruments Organization, **Sita Rani** GNDEC, Ludhiana

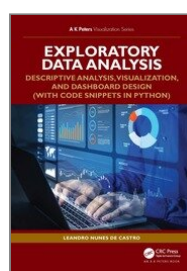
This book explores the transformative potential of Explainable AI (XAI) in enhancing healthcare delivery and XAI's role in fostering transparency, trust, and accountability in AI-driven medical decision-making. Covering technical foundations, practical applications, and ethical considerations, it offers valuable insights into how XAI can improve clinical decision-making, patient outcomes, and healthcare operations. Through real-world case studies, the book illustrates the practical benefits of XAI in diverse healthcare scenarios. It also addresses the challenges and solutions related to deploying XAI, making it an essential resource for professionals and researchers.

Chapman & Hall
December 2025 : 196pp
Pb: 978-1-032-90676-8 : **\$99.99**
Hb: 978-1-032-91112-0 : **\$79.99**

* For full contents and more information, visit: www.routledge.com/9781032906768

Exploratory Data Analysis

Descriptive Analysis, Visualization, and Dashboard Design (with Code Snippets in Python)



Leandro Nunes de Castro

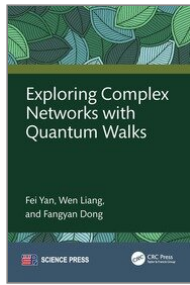
Series: *AK Peters Visualization Series*

With a strong focus on applied concepts, clarity and real-world applications, this book equips readers with the essential skills to excel in data analysis. Ideal for anyone eager to harness the potential of data, it combines theoretical depth with practical insights for compelling, meaningful analysis.

A K Peters/CRC Press
November 2025 : 350pp
Pb: 978-1-032-93982-7 : **\$59.99**
Hb: 978-1-032-94430-2 : **\$150**
eBook: 978-1-003-57069-1

* For full contents and more information, visit: www.routledge.com/9781032939827

Exploring Complex Networks with Quantum Walks



Fei Yan , Wen Liang , Fangyan Dong

This book explores the intersection of quantum computing and network science. It bridges the theoretical foundations of quantum walk algorithms with their applications in the structural exploration and representation learning of complex networks. The book will serve as a valuable reference for researchers, students, and educators interested in quantum walks, complex networks, quantum mechanics, and information engineering.

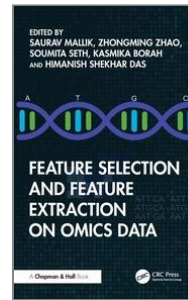
CRC Press

December 2025 : 204pp

Hb: 978-1-041-15384-9 : **\$84.99**

* For full contents and more information, visit: www.routledge.com/9781041153849

Feature Selection and Feature Extraction on Omics Data



Edited by **Saurav Mallik** University of Arizona, US,
Zhongming Zhao The Uni of Texas Health Sci Center, USA,
Soumita Seth , Aimin Li , Kasmika Borah , Himanish Shekhar Das

In today's data-driven world, biology and medicine are being transformed by the power of big data. Making sense of large, complicated biological datasets is a crucial problem that underlies every medical advancement and gene discovery.

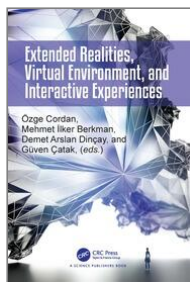
Chapman & Hall

March 2026 : NApp

Hb: 978-1-032-96767-7 : **\$150**

* For full contents and more information, visit: www.routledge.com/9781032967677

Extended Realities, Virtual Environment, and Interactive Experiences



Edited by **Ozge Cordan , Mehmet Ilker Berkman , Guven Catak , Demet Arslan Dincay**

The book explores the intricacies of augmented reality (AR), virtual reality (VR), mixed reality (MR), assisted reality (AsR), and the ever-expanding metaverse through real-world applications and case studies, focusing on users' perceptions and attitudes and introducing methods and key issues regarding their interactions with XR applications. This helps to increase collaboration, convergence, and communication between different fields.

CRC Press

November 2025 : 370pp

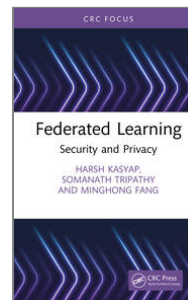
Hb: 978-1-032-94110-3 : **\$140**

eBook: 978-1-003-58164-2

* For full contents and more information, visit: www.routledge.com/9781032941103

Federated Learning

Security and Privacy



Harsh Kasyap , Somanath Tripathy , Minghong Fang

As data becomes more abundant and widespread across personal devices, the need for secure, privacy-aware machine learning is growing. Federated Learning (FL) offers a promising solution, enabling smart devices to collaboratively train models without sharing raw data.

CRC Press

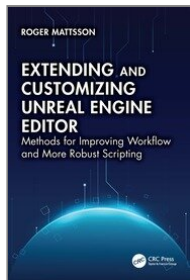
December 2025 : 120pp

Hb: 978-1-041-17462-2 : **\$65**

* For full contents and more information, visit: www.routledge.com/9781041174622

Extending and Customizing Unreal Engine Editor

Methods for Improving Workflow and More Robust Scripting



Roger Mattsson

This book provides a broad overview of editor extensions and modifications that can be made to speed up your workflow in the Unreal Engine. It covers tips for both initial content creation as well as for debugging already existing content. Whether you are making a small indie game or an AAA game, this book will help you and your team in creating the tools needed to improve your workflow.

CRC Press

December 2025 : 286pp

Pb: 978-1-032-84040-6 : **\$66.99**

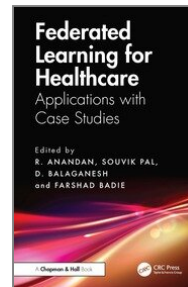
Hb: 978-1-032-84216-5 : **\$170**

eBook: 978-1-003-51174-8

* For full contents and more information, visit: www.routledge.com/9781032840406

Federated Learning for Healthcare

Applications with Case Studies



Edited by **R. Anandan , Souvik Pal** Associate Professor, Department of Computer Science and Engineering, Sister Nivedita University, Kolkata, India, **D. Balaganesh , Farshad Badie**

The book offers an in-depth exploration of federated learning and its transformative impact on the healthcare industry. It begins by introducing the foundational concepts of federated learning, including its methods and applications within various healthcare domains

Chapman & Hall

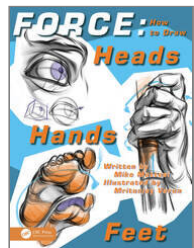
March 2026 : 296pp

Hb: 978-1-032-97810-9 : **\$180**

* For full contents and more information, visit: www.routledge.com/9781032978109

FORCE

How to Draw Heads, Hands and Feet



Mike Mattesi

Series: Force Drawing Series

Beginners and professionals have concerns about how to draw heads, hands and feet. This book has solutions for all artists interested in these subjects! Step by step instruction taught with clear and dynamic FORCE drawings will inspire you to study them and the written content to learn how to draw heads, hands and feet! Get ready to be inspired by amazing drawings coupled with conversational and easy to read text, bundled in this unique process to draw heads, hands and feet! Have fun drawing!

CRC Press

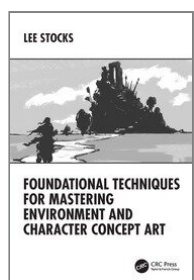
January 2026 : 288pp

Pb: 978-1-032-68540-3 : **\$66.99**

Hb: 978-1-032-70113-4 : **\$180**

* For full contents and more information, visit: www.routledge.com/9781032685403

Foundational Techniques for Mastering Environment and Character Concept Art



Lee Stocks

This is a comprehensive guide to the process of generating ideas for creating character and environment art. The book shows comprehensive workshops and techniques to embed the fundamentals of designing characters and environments for games and film. The underlying process is explained and demonstrated to give a straightforward approach that anyone can use. Using these processes, you will be able to produce designs that are straight out of your imagination. This book will be of great interest to anyone looking to gain a grounding in the theory and practice of concept art for character and environments. It will be particularly useful for students on game art courses.

CRC Press

February 2026 : 168pp

Pb: 978-1-032-76989-9 : **\$66.99**

Hb: 978-1-032-81470-4 : **\$170**

* For full contents and more information, visit: www.routledge.com/9781032769899

Foundations of Artificial Intelligence in Finance

Insights for Practitioners with Applications and Case Studies



Edited by **Syed Hasan Jafar** Woxsen Univ., **Hemachandran K** Woxsen Univ., **Donkor Nawaah** Woxsen Univ., **Raul Villamarin Rodriguez** Woxsen Univ.

Series: AI Applications and Case Studies for Business

This book discusses the financial impact of Artificial Intelligence (AI) on the finance and business sectors. By providing readers with comprehensive insights, real-world case studies, and expert discussions, it delves into various applications of AI in finance, including NLP for financial document analysis, predictive analytics, explainable AI, and blockchain integration. Covering a range of topics, from simplifying financial documents to predicting stock market trends and ensuring ethical investing, this book is crucial to effectively bridge the gap between technical AI concepts and practical applications, making it suitable for both specialists and non-specialists.

Chapman & Hall

February 2026 : 248pp

Pb: 978-1-041-00787-6 : **\$89.99**

Hb: 978-1-041-01033-3 : **\$130**

* For full contents and more information, visit: www.routledge.com/9781041007876

From Smart Cities to the Metaverse

Games, Immersive Experiences and the Future of Digital Interaction



Edited by **Noradila Nordin**, **Norliza Katuk** School of Computing Universiti Utara, Malaysia, **Adib Habbal** Faculty of Engineering, Karabük University

This book delivers a comprehensive exploration of the rapidly evolving intersection between immersive technologies and the gaming industry, providing a detailed analysis of current innovations, diverse applications, and the transformative landscape of virtual experiences. It meticulously examines the core technologies driving this evolution, including Augmented Reality (AR), Virtual Reality (VR), and Artificial Intelligence (AI), offering readers a clear and insightful understanding of their impact across various sectors, with a particular emphasis on the dynamic realm of gaming.

CRC Press

April 2026 : 254pp

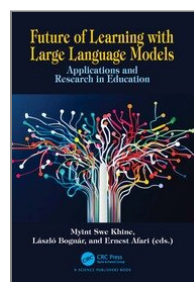
Pb: 978-1-041-11965-4 : **\$66.99**

Hb: 978-1-041-11967-8 : **\$250**

* For full contents and more information, visit: www.routledge.com/9781041119654

Future of Learning with Large Language Models

Applications and Research in Education



Edited by **Myint Swe Khine**, **László Bognár**, **Ernest Afari**

Large language models (LLMs), advanced AI systems trained on vast text datasets, are reshaping education. This book explores their role in revolutionizing learning through cognitive reinforcement, personalization, curriculum-wide applications, and teacher training. It addresses challenges, ethical frameworks, and strategies for responsible integration. Offering insights for educators, technologists, and policymakers, it highlights LLMs' potential to enhance learning efficiency, improve assessments, and expand access to quality education, nurturing critical thinkers and innovators in an AI-driven era.

CRC Press

November 2025 : 266pp

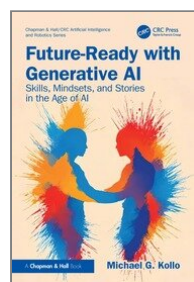
Hb: 978-1-032-93432-7 : **\$140**

eBook: 978-1-003-56725-7

* For full contents and more information, visit: www.routledge.com/9781032934327

Future-Ready with Generative AI

Skills, Mindsets, and Stories in the Age of AI



Michael G. Kollo

Series: Chapman & Hall/CRC Artificial Intelligence and Robotics Series

Thoughtfully explores why language-based AI represents something fundamentally different from previous automation, examining both imagined fears and genuine possibilities for workforce transformation. It explains why institutional change takes time despite impressive capabilities, how AI systems are quietly becoming our digital confidants, and why we may eventually come to resent the very technologies we initially embrace. Explained through real-world examples and practical frameworks, along with companion fictional stories. Readers will gain practical wisdom for leveraging conversational AI while preserving human creativity, relationships, and independent thinking.

Chapman & Hall

March 2026 : 152pp

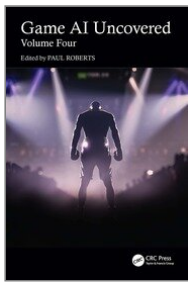
Pb: 978-1-032-97533-7 : **\$39.99**

Hb: 978-1-032-97993-9 : **\$150**

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Game AI Uncovered

Volume Four



Edited by **Paul Roberts**

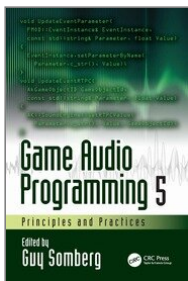
Game AI Uncovered: Volume Four continues the series with another collection of chapters from twenty of the top game AI professionals and researchers, from around the world. Each chapter includes wisdom, ideas, tips and tricks that were used in the development of video games. Beginners to the area of game AI, along with professional developers, will find a wealth of knowledge that will not only help in the development of their own games but will spark ideas for new approaches.

CRC Press
February 2026 : 270pp
Pb: 978-1-032-82483-3 : **\$66.99**
Hb: 978-1-032-82493-2 : **\$170**

* For **full contents** and more information, visit: www.routledge.com/9781032824833

Game Audio Programming 5

Principles and Practices



Edited by **Guy Somberg**

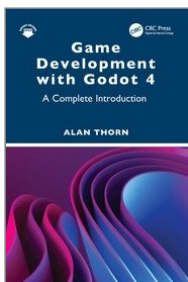
Welcome to the fifth volume of Game Audio Programming: Principles and Practices — the first series of its kind dedicated to the art, science, and craft of game audio programming. In this volume, some of the top game audio programmers in the industry delve into audio programming topics from low-level subjects like oscillator techniques to high-level topics such as automated testing, reverb, and music. This collection compiles topics from a vast body of advanced knowledge and wisdom about game audio programming. Whether you are a newly minted game audio programmer or an expert, or if you're just the lucky soul who gets to do the work, this book is for you!

CRC Press
November 2025 : 366pp
Pb: 978-1-032-85285-0 : **\$66.99**
Hb: 978-1-032-85633-9 : **\$170**
eBook: 978-1-003-51911-9

* For **full contents** and more information, visit: www.routledge.com/9781032852850

Game Development with Godot 4

A Complete Introduction



Alan Thorn National Film & Television School, Uprminster, UK

Godot is a rapidly growing free and open-source game engine for creating 2D and 3D games, and interactive applications, on many platforms including desktop and mobile. There has been intense interest in this engine among game developers worldwide. This book explores: nodes, scenes, hierarchies, import workflows, scripting, animations, user interfaces, working with resources and creating gameplay elements, among others.

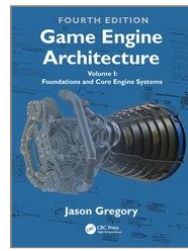
CRC Press
November 2025 : 376pp
Pb: 978-1-032-75924-1 : **\$66.99**
Hb: 978-1-032-77728-3 : **\$180**
eBook: 978-1-003-48452-3

* For **full contents** and more information, visit: www.routledge.com/9781032759241

4TH EDITION

Game Engine Architecture

Volume I, Foundations and Core Engine Systems



Jason Gregory

In this new and improved fourth edition, Jason Gregory draws on his two decades of experience at Midway, Electronic Arts and Naughty Dog to present both the theory and practice of game engine software development. The broad range of technologies and techniques used by AAA game studios are each explained in detail, and their roles within a real industrial-strength game engine are illustrated. This book is intended to serve as an introductory text, but it also offers the experienced game programmer a useful perspective on aspects of game development technology with which they may not have deep experience.

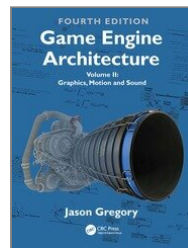
CRC Press
February 2026 : 666pp
Pb: 978-1-032-44308-9 : **\$84.99**
Hb: 978-1-032-44306-5 : **\$210**

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4TH EDITION

Game Engine Architecture

Volume II, Graphics, Motion and Sound



Jason Gregory

In this new and improved fourth edition, Jason Gregory draws on his two decades of experience at Midway, Electronic Arts and Naughty Dog to present both the theory and practice of game engine software development. The broad range of technologies and techniques used by AAA game studios are each explained in detail, and their roles within a real industrial-strength game engine are illustrated. This book is intended to serve as an introductory text, but it also offers the experienced game programmer a useful perspective on aspects of game development technology with which they may not have deep experience.

CRC Press
February 2026 : 760pp
Pb: 978-1-041-16257-5 : **\$84.99**
Hb: 978-1-041-16258-2 : **\$210**

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4TH EDITION

Game Engine Architecture

Two Volume Set



Jason Gregory

In this new and improved fourth edition, Jason Gregory draws on his two decades of experience at Midway, Electronic Arts and Naughty Dog to present both the theory and practice of game engine software development. The broad range of technologies and techniques used by AAA game studios are each explained in detail, and their roles within a real industrial-strength game engine are illustrated. This book is intended to serve as an introductory text, but it also offers the experienced game programmer a useful perspective on aspects of game development technology with which they may not have deep experience.

CRC Press
January 2026 : 1424pp
Pb: 978-1-041-16259-9 : **\$160**
Hb: 978-1-041-16260-5 : **\$400**

* For **full contents** and more information, visit: www.routledge.com/9781041162599

Games User Research Cookbook

Tools and Techniques for Better Player Experience



Michał Mycka

This book offers a comprehensive and practical guide to Games User Research (GUR). Blending theory and hands-on experience, it walks readers through methods, tools, and techniques tailored to the real-world constraints of small and medium-sized game development studios to support them in delivering better player experiences. Whether you're an indie developer wanting to better understand your players, UX designer or researcher moving from application software to the world of games, this book will provide you with all the information you need to build better player experiences.

CRC Press

March 2026 : 200pp

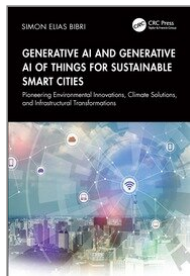
Pb: 978-1-032-82063-7 : \$66.99

Hb: 978-1-032-81895-5 : \$170

* For full contents and more information, visit: www.routledge.com/9781032820637

Generative AI and Generative AI of Things for Sustainable Smart Cities

Pioneering Environmental Innovations, Climate Solutions, and Infrastructural Transformations



Simon Elias Bibri

This pioneering book invites readers on a compelling journey into Generative Artificial Intelligence (AI) and its groundbreaking convergence with AI of Things (AIoT), introducing GAIoT as a transformative frontier in urban computing and intelligence. What sets this book apart is its first-of-its-kind focus on GAIoT as an innovative frontier shaping the future of sustainable urban development. It delivers actionable insights, conceptual and operational frameworks, case studies, and policy guidance—equipping diverse stakeholders with the tools to build cities that not only respond to change but also anticipate and shape it.

CRC Press

December 2025 : 580pp

Pb: 978-1-041-13982-9 : \$79.99

Hb: 978-1-041-13984-3 : \$250

* For full contents and more information, visit: www.routledge.com/9781041139829

Generative AI for Personalized Learning

Foundations, Trends, and Future Challenges



Rajesh Kumar Dhanaraj Galgotias Uni., **Balasamy Krishnasamy**, **Umapriya Rajendran**, **Suganyadevi Sellappan**, **Rohan Jaikumar**

This book explores the profound ways in which GenAI-driven tools—such as GPT-4, Transformers, and GANs—are transforming traditional teaching and learning paradigms. Through in-depth analysis and real-world case studies from Finland, Singapore, Japan, and the United States, this book examines how AI-driven learning environments foster student engagement and improve outcomes. Whether you are an educator, researcher, policymaker, or technology leader, the book offers valuable insights into the future of education. It presents a forward-thinking vision—one where AI and human expertise work in harmony to create a more responsive, scalable, and learner-centric educational experience.

CRC Press

November 2025 : 348pp

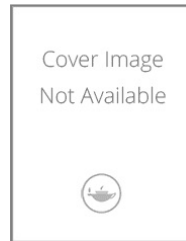
Hb: 978-1-032-88359-5 : \$140

eBook: 978-1-003-53735-9

* For full contents and more information, visit: www.routledge.com/9781032883595

Generative and Open AI in Industry 5.0

Edited by **Sangeeta Sharma**, **Robin Singh Bhadoria**, **Mukesh Kumar Giluka**



This book provides an up-to-date and easy-to-read introduction to Generative AI and its revolutionary contribution to building Industry 5.0. Written for both practitioners and interested readers, it is a clear and compelling overview of the technologies at the heart of the next industrial revolution. The book is perfect for students, researchers, and practitioners of AI, data science, and industrial systems interested in comprehending the theory and practical applications of Generative AI.

CRC Press

February 2026 : 324pp

Hb: 978-1-032-97981-6 : \$110

* For full contents and more information, visit: www.routledge.com/9781032979816

GPT Meets Game Theory

Training and Optimizing Generative AI Models



Hamidou Tembine New York University, UAE.

This book explores a new way to understand and employ neural networks through the lens of game theory. It shows how these systems can be seen as players working together or competing to achieve goals. Focusing on transformers, the book explains key mathematical concepts and strategies in a clear, approachable way. It looks at how these ideas apply to "mean-field" models and how they can be used in situations like federated learning, where many devices work together to train an AI system. This is an illuminating read for computer science, engineering, and mathematics researchers who are interested in the mathematical underpinnings of deep learning models.

Chapman & Hall

March 2026 : 328pp

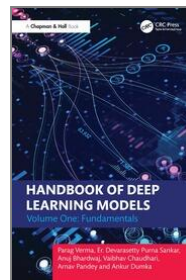
Pb: 978-1-041-12407-8 : \$66.99

Hb: 978-1-041-12409-2 : \$180

* For full contents and more information, visit: www.routledge.com/9781041124078

Handbook of Deep Learning Models

Volume One: Fundamentals



Parag Verma, **Er. Devarasetty Purna Sankar**, **Anuj Bhardwaj**, **Vaibhav Chaudhari**, **Arnav Pandey**, **Ankur Dumka**

This volume covers a comprehensive range of fundamental concepts in deep learning and artificial neural networks, making it suitable for beginners looking to learn the basics. This book is a valuable resource for anyone interested in deep learning and artificial neural networks, offering both theoretical insights and practical implementation experience.

Chapman & Hall

November 2025 : 314pp

Hb: 978-1-041-10268-7 : \$210

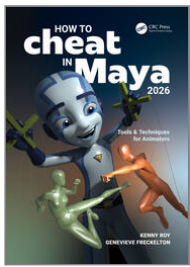
eBook: 978-1-003-65421-6

* For full contents and more information, visit: www.routledge.com/9781041102687

6TH EDITION

How to Cheat in Maya 2026

Tools & Techniques for Animators

**Kenny Roy , Genevieve Freckelton**

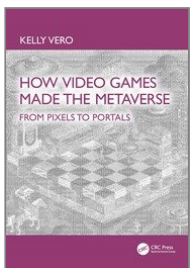
How to Cheat in Maya 2026 is more than a software manual - it's a complete guide to working smarter, animating faster, and thinking like a professional. This edition covers Maya's latest tools and features, but more importantly, it focuses on real-world workflows and the creative process behind great animation. You'll find not just the how, but the why behind each technique, helping you build intuition and confidence in your craft. Whether you're learning the ropes or refining your skills, this book is designed to remove friction, streamline your process, and let you focus on what matters most: crafting compelling animated performances.

CRC Press
December 2025 : 350pp
Pb: 978-1-032-88309-0 : **\$66.99**
Hb: 978-1-032-88337-3 : **\$180**

* For full contents and more information, visit: www.routledge.com/9781032883090

How Video Games Made the Metaverse

From Pixels to Portals

**Kelly Vero**

Drawing on over 30 years of industry experience, Kelly Vero explores the rich interplay between narrative, design, and technology, making the case for why story, far from being a cosmetic layer, is foundational to player engagement, emotional investment, and lasting value in games and virtual worlds. Crucially, How Video Games Made the Metaverse: From Pixels to Portals is about building worlds that people want to live in. Whether you're a product lead, a writer, or designer, this book explores how to integrate content, interaction, and community into a unified whole.

CRC Press
January 2026 : 168pp
Pb: 978-1-041-01532-1 : **\$66.99**
Hb: 978-1-041-01534-5 : **\$160**

* For full contents and more information, visit: www.routledge.com/9781041015321

Human-Engaged Computing

**Edited by Xiangshi Ren , Chen Wang**

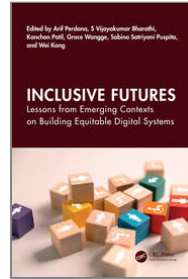
This book introduces Human-Engaged Computing (HEC), a pioneering thought that reimagines the relationship between humans and computers. Unlike traditional Human-Computer Interaction (HCI), HEC offers a philosophical and practical foundation for designing technologies that prioritize human survival, flourishing, and spiritual growth. This book is a must-read for professionals and students across diverse fields, including human-computer interaction (HCI), computer science, philosophy, psychology, and sociology. Policymakers concerned with technology's societal impact will also find it invaluable.

Chapman & Hall
March 2026 : 368pp
Hb: 978-1-032-75294-5 : **\$180**

* For full contents and more information, visit: www.routledge.com/9781032752945

Inclusive Futures

Lessons from Emerging Contexts on Building Equitable Digital Systems

**Edited by Arif Perdana , Vijayakumar Bharathi S , Kanchan Patil , Grace Wangge , Sabina Satriyani Puspita , Wei Kang**

This book offers a comprehensive analysis of the role of diversity, equity, and inclusion (DEI) in the technology sector from a global perspective. Comprising seven in-depth chapters, the book highlights inherent biases within technology and strategies for constructing inclusive products and services. This book serves as a valuable resource for practitioners involved in the development of technology, hiring in the technology sector and leaders involved in policymaking of ethical and regulatory aspects of DEI in technology.

CRC Press
January 2026 : 460pp
Pb: 978-1-032-96884-1 : **\$66.99**
Hb: 978-1-032-96885-8 : **\$250**

* For full contents and more information, visit: www.routledge.com/9781032968841

Industrial Internet of Things for Responsible Technology

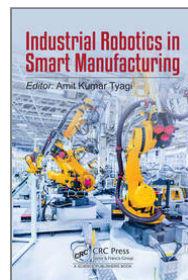
**Edited by B. K. Mishra , Gaurav Dhiman PSOU, India, Hemant Kasturiwale , Sujata Alegavi , Kusum Yadav***Series: Responsible Technology and Intelligence*

Explores the foundational concepts of IIoT, emphasizing ethical development, sustainable design, and human-centric solutions. It examines regulatory frameworks, data governance, security, and resilience to ensure reliable and responsible systems. Through case studies and collaborative innovation, it highlights positive social and workforce impacts. A practical application in battery management showcases advanced implementation. The book concludes with strategies to overcome ethical challenges, shaping a secure, inclusive, and sustainable technological future.

CRC Press
November 2025 : 234pp
Hb: 978-1-032-82940-1 : **\$140**
eBook: 978-1-003-58790-3

* For full contents and more information, visit: www.routledge.com/9781032829401

Industrial Robotics in Smart Manufacturing

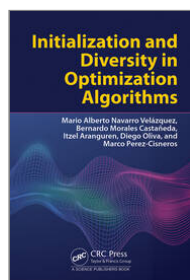
**Edited by Amit Kumar Tyagi VIT, India**

In the recent decade, industry 4.0 and its uses have attracted huge attention from the scientific community for doing today's task effectively. This book provides a comprehensive guide to industrial robotics. It covers the history, structure, applications, tools, and programming of robotic systems. The book delves into fundamental principles, including robot mechanics, motion control, and coordinate systems. It also explores advanced technologies like machine vision, AI, mobile robots, digital twins, and VR in industrial environments. The text is designed for students and professionals, offering insights into designing, deploying, and maintaining robotic systems in modern factories.

CRC Press
February 2026 : 372pp
Hb: 978-1-041-00494-3 : **\$170**

* For full contents and more information, visit: www.routledge.com/9781041004943

Initialization and Diversity in Optimization Algorithms



Diego Oliva University de Guadalajara, Mexico, **Marco Antonio Perez Cisneros**, **Bernardo Morales-Castañeda**, **Mario A. Navarro Velázquez**

This book delves into designing effective swarm intelligence algorithms, focusing on two critical aspects: initialization and diversity. It explores various initialization techniques, emphasizing their role in avoiding local optima and accelerating convergence. It also examines methods for maintaining population diversity throughout the optimization process, crucial for thorough search space exploration. Featuring examples with Differential Evolution and Particle Swarm Optimization, the book provides theoretical insights, practical MATLAB® code, and exercises for algorithm design and experimentation.

CRC Press
February 2026 : 238pp
Hb: 978-1-032-69581-5 : **\$170**

* For full contents and more information, visit: www.routledge.com/9781032695815

Intelligent Mobile and IoT Ecosystems

Bridging Cloud, Fog, Edge, and AI



Edited by **M. K. Kavitha Devi**, **Thangavel Murugan**
United Arab Emirates University, UAE, **K. Indira**, **Raja Lavanya**, **S. Abinaya**

This book explores how cloud computing, fog computing, edge computing, and artificial intelligence (AI) come together to form an intelligent mobile and IoT ecosystem. It studies the foundational concepts and practical applications of these technologies, revealing their transformative impact across various industries. The book discusses into how these technologies interact to enhance real-time data processing, security, and user experiences in mobile and IoT environments. This book is for researchers, engineers, and practitioners with a comprehensive understanding of the integration of cloud, fog, edge, and AI technologies in the context of mobile and IoT ecosystems.

Chapman & Hall
April 2026 : 280pp
Hb: 978-1-041-00194-2 : **\$180**

* For full contents and more information, visit: www.routledge.com/9781041001942

Internet of Medical Things

Case Studies and Applications in Healthcare



Edited by **Balakrishnan C.**, **Jayapriya J.**, **Vinay M.**, **Sanjeev Kumar Singh**, **Nadarajah Manivannan**

The book presents a comprehensive overview of emerging IoT technologies, IoT devices and sensors and their role in the healthcare industry. It offers recent developments in the creation, application, and impact of new IoMT data security, IoMT devices used in a variety of applications, including telemedicine, monitoring patients, and intelligence-based medical data analysis. It includes discussions on the use of medical data analysis to make various predictions and diagnoses that lead to the right treatment. The security of medical data from Internet of Things (IoT) devices, where there is a risk of data leakage during transmission from the device to the server, is discussed.

Chapman & Hall
December 2025 : 226pp
Hb: 978-1-032-74893-1 : **\$160**
eBook: 978-1-003-47634-4

* For full contents and more information, visit: www.routledge.com/9781032748931

2ND EDITION

Introduction to High Performance Computing for Scientists and Engineers, Second Edition



Georg Hager University of Erlangen Nuremberg, Germany, **Gerhard Wellein** University of Erlangen Nuremberg, Germany

Series: *Chapman & Hall/CRC Computational Science*

This book is a well-recognized and leading guidebook on High Performance Computing for a broad audience of readers from industry and academia. The new edition is completely reorganized and updated to include the latest research in HPC. A new introductory chapter and a new chapter on accelerated computing have been added to the book to keep pace with recent advances.

Chapman & Hall
June 2026 : 400pp
Pb: 978-1-482-25293-4 : **\$69.95**
Hb: 978-1-138-30445-1 : **\$159.99**

* For full contents and more information, visit: www.routledge.com/9781482252934

Introduction to Machine Learning Algorithms

Basic Principles and Mathematics



Vinod Kumar Khanna

Mathematics is the foundation of machine learning algorithms. To understand the shortcomings of existing algorithms and develop more effective methods, it is essential to understand the mathematical concepts underlying these algorithms and their operational principles. This book serves as an introductory resource, outlining the preliminary concepts and offering insights into the mathematical foundations and operational mechanisms of machine learning algorithms. It describes the basic equations and interrelates the questions arising during practical applications of machine learning with the basic mathematical picture of the algorithms used.

Chapman & Hall
April 2026 : 432pp
Hb: 978-1-032-72591-8 : **\$180**

* For full contents and more information, visit: www.routledge.com/9781032725918

IoT

Advanced Emerging Applications



Rajiv Chopra

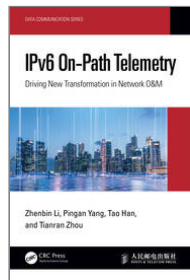
This book provides a complete landscape of Internet of Things technology comprehensively. From foundational concepts to advanced applications in Industrial IoT and Fog Computing, this text provides clear explanations and practical insights. Featuring laboratory experiments, multiple-choice questions, and coverage of emerging technologies like Flying Ad Hoc Networks, it serves as an essential resource for academic courses and professional development. This title has been co-published with Manakin Press. Taylor & Francis does not sell or distribute the print edition in India, Pakistan, Nepal, Bhutan, Sri Lanka and Bangladesh.

CRC Press
January 2026 : 326pp
Hb: 978-1-041-20691-0 : **\$110**

* For full contents and more information, visit: www.routledge.com/9781041206910

IPv6 On-Path Telemetry

Driving New Transformation in Network O&M



Zhenbin Li, Pingan Yang, Tao Han, Tianran Zhou

Series: Data Communication Series

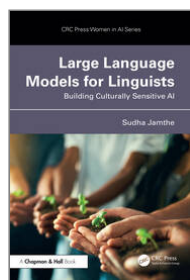
Built on Huawei's pioneering research, this book provides a comprehensive introduction to the architecture, techniques, and deployment of IPv6 on-path telemetry, highlighting the most recent developments in IP network technologies. This book is intended for network planning engineers, technical support engineers, and network administrators. It will also appeal to researchers, students, and professionals interested in IP network technologies and communication networks.

CRC Press
December 2025 : 360pp
Hb: 978-1-041-14514-1 : **\$180**
eBook: 978-1-003-67790-1

* For full contents and more information, visit: www.routledge.com/9781041145141

Large Language Models for Linguists

Building Culturally Sensitive AI



Sudha Jamthe

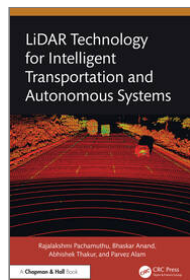
Series: CRC Press Women in AI Series

Bridges the gap between linguistics and technology. It provides an in-depth education on large language models for linguists and demonstrates how AI is being taught today using language as data without the nuances of language. It gives a playbook for linguists to get involved in teaching AI in a way that preserves the world's diverse linguistic and cultural heritage.

Chapman & Hall
February 2026 : 232pp
Pb: 978-1-032-88955-9 : **\$66.99**
Hb: 978-1-032-88956-6 : **\$160**

* For full contents and more information, visit: www.routledge.com/9781032889559

LiDAR Technology for Intelligent Transportation and Autonomous Systems



Rajalakshmi Pachamuthu, Bhaskar Anand, Abhishek Thakur, Parvez Alam

This book explores the critical role of LiDAR technology in autonomous navigation and advanced driver assistance systems (ADAS). It explores the fundamental principles of LiDAR, comparing it with other sensor technologies like radar and cameras while examining the various types of LiDAR systems, including time-of-flight, flash, and frequency-modulated continuous wave systems. It emphasises real-world use cases, including setting up LiDAR data acquisition systems and addressing challenges like sensor calibration, alignment, and integration into autonomous systems.

Chapman & Hall
November 2025 : 272pp
Hb: 978-1-041-04459-8 : **\$180**
eBook: 978-1-003-62842-2

* For full contents and more information, visit: www.routledge.com/9781041044598

Mastering Storyboarding

Professional Techniques for Visual Storytelling



Caroline Hu

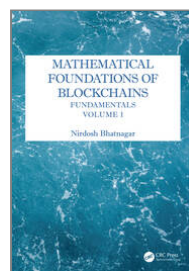
This book offers a comprehensive and practical introduction to the fundamentals of storyboarding, making it an ideal resource for aspiring filmmakers, animators, and visual storytellers. It bridges the gap between written scripts and visual storytelling by demonstrating how scenes are translated into storyboard panels. Readers can see how scripts are broken down into individual shots, and how those shots are visually constructed on the page. Whether you're a student or a working professional looking to sharpen your skills, this book serves as both an instructional manual and an applicable and visual reference guide.

CRC Press
February 2026 : 166pp
Pb: 978-1-032-98507-7 : **\$66.99**
Hb: 978-1-032-98508-4 : **\$180**

* For full contents and more information, visit: www.routledge.com/9781032985077

Mathematical Foundations of Blockchains

Fundamentals, Volume 1



Nirdosh Bhatnagar

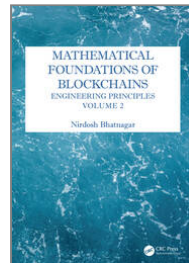
This book is part of a two-volume work on blockchains. Blockchain is a novel paradigm for a distributed ledger. Volume 1 is on the fundamentals of blockchains and consists of an overview of blockchains, essential elements of blockchains, and the mathematics required for understanding the workings of blockchains. Volume 2 develops mathematical models to enhance the understanding of blockchains. This work can be used by students of electrical engineering, computer science, applied mathematics, and economics. Students in business school can also benefit. It can also be used by professionals and researchers in the field who would like a quick review of the basics of the subject.

CRC Press
December 2025 : 512pp
Hb: 978-1-032-97961-8 : **\$200**

* For full contents and more information, visit: www.routledge.com/9781032979618

Mathematical Foundations of Blockchains

Engineering Principles, Volume 2



Nirdosh Bhatnagar

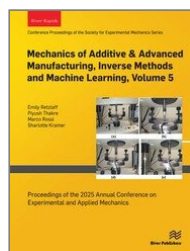
This book is part of a two-volume work on blockchains. Blockchain is a novel paradigm for a distributed ledger. Volume 1 is on the fundamentals of blockchains and consists of an overview of blockchains, essential elements of blockchains, and the mathematics required for understanding the workings of blockchains. Volume 2 develops mathematical models to enhance the understanding of blockchains. This work can be used by students of electrical engineering, computer science, applied mathematics, and economics. Students in business school can also benefit. It can also be used by professionals and researchers in the field who would like a quick review of the basics of the subject.

CRC Press
November 2025 : 448pp
Hb: 978-1-032-97964-9 : **\$200**

* For full contents and more information, visit: www.routledge.com/9781032979649

Mechanics of Additive & Advanced Manufacturing, Inverse Methods and Machine Learning, Volume 5

Proceedings of the 2025 Annual Conference on Experimental and Applied Mechanics



Edited by **Emily Retzlaff**, **Piyush Thakre**, **Marco Rossi**, **Charlotte Kramer**

Mechanics of Additive and Advanced Manufacturing, Inverse Methods and Machine Learning, Volume 5 of the Proceedings of the 2025 SEM Annual Conference & Exposition on Experimental and Applied Mechanics, the fifth volume of five from the Conference, brings together contributions to this important area of research and engineering.

River Publishers
January 2026 : 74pp
Hb: 978-8-743-80831-2 : **\$130**

* For full contents and more information, visit: www.routledge.com/9788743808312

Metaheuristics in Engineering Applications



Edited by **Mathew V K**, **Archana Chandak**, **Man Mohan**, **Bhumeswar K. Patel**

Series: *Advances in Metaheuristics*

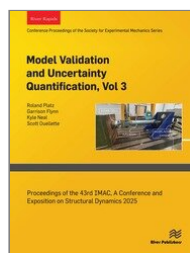
Metaheuristics in Engineering Applications introduces a range of metaheuristics algorithms and examine their various applications in engineering, including Industrial IoT and Cyber-Physical Systems, Intelligent Manufacturing and Sustainable Technologies. Metaheuristics are not just optimization tools; they are catalysts for innovation across diverse engineering disciplines. By understanding their context and potential in each area, we unlock a future where complex problems are tackled efficiently, sustainably, and ethically, paving the way for a brighter and more innovative tomorrow. It will be of great interest to professionals and researchers across this domain.

CRC Press
December 2025 : 232pp
Hb: 978-1-032-90009-4 : **\$180**
eBook: 978-1-003-56148-4

* For full contents and more information, visit: www.routledge.com/9781032900094

Model Validation and Uncertainty Quantification, Vol. 3

Proceedings of the 43rd IMAC, A Conference and Exposition on Structural Dynamics 2025



Edited by **Roland Platz**, **Garrison Flynn**, **Kyle Neal**, **Scott Ouellette**

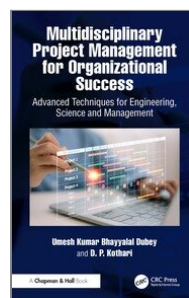
Model Validation and Uncertainty Quantification, Volume 3: Proceedings of the 43rd IMAC, A Conference and Exposition on Structural Dynamics, 2025, the third volume of twelve from the Conference brings together contributions to this important area of research and engineering. The collection presents early findings and case studies on fundamental and applied aspects of Model Validation and Uncertainty Quantification.

River Publishers
January 2026 : 140pp
Hb: 978-8-743-80148-1 : **\$130**

* For full contents and more information, visit: www.routledge.com/9788743801481

Multidisciplinary Project Management for Organizational Success

Advanced Techniques for Engineering, Science and Management



Umesh Kumar Bhayyalal Dubey Department of Mathematics & Statistics, MIT WPU Pune, D. P. Kothari

Project Management can play a key role in arriving at an effective decision in various functional areas of management. This book focuses on the integral role of project management in an organization. All aspects of a project, like project identification, project planning and scheduling, project implementation, project evaluation, project financing and project audit are covered in detail in this book. It is designed to help undergraduates, post graduates and research professionals understand the basic concepts and applications of project management.

Chapman & Hall
December 2025 : 384pp
Hb: 978-1-138-06059-3 : **\$180**
eBook: 978-1-315-16299-7

* For full contents and more information, visit: www.routledge.com/9781138060593

Next-Generation Smart Cities

The Integration of AI, Blockchain, IoT and Emergent Networks



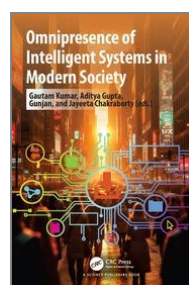
Mahmoud Elkhodr

This book offers a forward-looking analysis of emerging technologies converging in next-generation smart cities, examining both their opportunities and challenges. The audience for this book includes doctoral and master's students in computer science, electrical engineering, urban planning, and related fields who are investigating how technologies such as AI, blockchain, IoT, and advanced communications can address complex urban challenges.

CRC Press
April 2026 : 216pp
Pb: 978-1-041-09454-8 : **\$66.99**
Hb: 978-1-041-09456-2 : **\$190**

* For full contents and more information, visit: www.routledge.com/9781041094548

Omnipresence of Intelligent Systems in Modern Society



Edited by **Gautam Kumar**, **Aditya Gupta**, **Gunjan**, **Jayeeta Chakraborty**

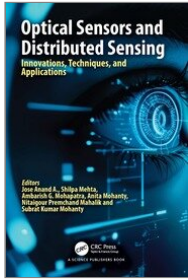
This book delves into the evolving field of computational intelligence, highlighting its intersection with computer science, AI, and machine learning. It covers recent advancements, theoretical foundations, and practical applications, emphasizing the role of computational algorithms in developing intelligent systems. Topics include visual computing, real-time decision support, and data-driven innovations. Designed for researchers, professionals, and graduate students, the book serves as a comprehensive resource for understanding and applying computational intelligence in real-world scenarios.

CRC Press
December 2025 : 254pp
Hb: 978-1-032-84202-8 : **\$140**
eBook: 978-1-003-53104-3

* For full contents and more information, visit: www.routledge.com/9781032842028

Optical Sensors and Distributed Sensing

Innovations, Techniques, and Applications



Edited by **A. Jose Anand** KCG College of Technology, India, **Shilpa Mehta** Auckland University of Technology, New Zealand, **Ambarish G. Mohapatra** Silicon Institute of Technology, Bhubaneswar, Odisha, India, **Anita Mohanty** Silicon Institute of Technology, Bhubaneswar, Odisha, India, **Nitaigour Premchand Mahalik**, **Subrat Kumar Mohanty**

This book offers a holistic perspective on optical sensing technologies and distributed sensing networks. It delves into challenges and future directions, particularly focusing on the burgeoning field of quantum sensing technologies. The book will bring together leading experts and researchers to contribute chapters that cover a wide range of topics, from fundamental principles to cutting-edge advancements. Tailored for researchers, academics, and professionals in the realms of optics, photonics, sensor networks, and related disciplines, this book accommodates a diverse audience.

CRC Press
December 2025 : 376pp
Hb: 978-1-032-87049-6 : \$140
eBook: 978-1-003-54671-9

* For full contents and more information, visit: www.routledge.com/9781032870496

Perceptive Machines

The Future of Feeling AI and What It Means for Humanity



Rocky Scopelliti

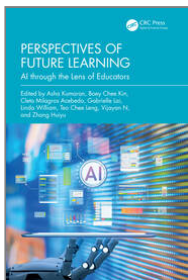
This book offers a compelling look into the future of artificial intelligence, where AI systems are no longer limited to just processing information, but can perceive the world through synthetic senses. The author explores how this shift from purely cognitive AI to embodied sensory experiences is blurring the lines between human and machine intelligence. It's a deep dive into how multisensory AI, powered by breakthroughs in areas like haptics and neural interfaces, will fundamentally alter what it means to experience, connect, and ultimately, to be human.

CRC Press
April 2026 : 276pp
Pb: 978-1-041-23236-0 : \$90.99
Hb: 978-1-041-23429-6 : \$250

* For full contents and more information, visit: www.routledge.com/9781041232360

Perspectives of Future Learning

AI through the Lens of Educators



Edited by **Asha Kumaran**, **Boey Chee Kin**, **Cleta Milagros Acebedo**, **Linda William**, **Gabrielle Lai**, **Teo Chee Leng**, **Vijayan N**, **Zhang Huiyu**

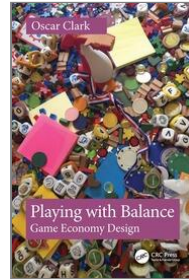
This book looks at the intersection of AI and education in Singapore's post-secondary education programmes. The key focus is the study on the needs assessment, selection of adaptive technologies and their seamless customization into the education eco-system. To successfully implement the AI-education solutions, the reader learns about the planning considerations to develop a suitable approach to engage stakeholders. This book would be ideal for administrators, researchers, practitioners, instructors, and trainee teachers to draw reference from the design, implementation, evaluation, including implications, of teaching and learning interventions using AI in higher education.

CRC Press
December 2025 : 300pp
Hb: 978-1-032-98569-5 : \$140
eBook: 978-1-003-59935-7

* For full contents and more information, visit: www.routledge.com/9781032985695

Playing with Balance

Game Economy Design



Oscar Clark

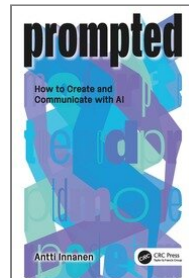
Playing with Balance: Game Economy Design is your guide to understanding why games are unlike any other medium: they are built on verbs, not nouns. Players don't just watch or read—they do. Every choice, action, and interaction forms part of a living system designed to engage, challenge, and reward. Whether you're building a small indie project or running a massive live game, Playing with Balance: Game Economy Design gives you the tools to craft mechanics that feel alive.

CRC Press
February 2026 : 368pp
Pb: 978-1-032-97159-9 : \$66.99
Hb: 978-1-032-97160-5 : \$180

* For full contents and more information, visit: www.routledge.com/9781032971599

PROMPTED

How to Create and Communicate with AI



Antti Innanen

PROMPTED offers a practical, human-centered approach to creating effective AI conversations, helping readers unlock the full potential of large language models while maintaining human agency and creativity. This comprehensive guide bridges theory and practice, offering both foundational understanding and advanced techniques for prompt engineering. The book covers essential concepts like prompt design patterns, chain-of-thought prompting, and role-based frameworks, while providing practical examples and real-world applications. Readers will learn how to craft precise instructions, manage context effectively, and develop systematic approaches for different use cases.

CRC Press
December 2025 : 230pp
Pb: 978-1-041-06661-3 : \$34.99
Hb: 978-1-041-06663-7 : \$150
eBook: 978-1-003-63650-2

* For full contents and more information, visit: www.routledge.com/9781041066613

Quantum Artificial Intelligence

Technologies, Algorithms and Programming



Edited by **Deepika Ghai**, **Suman Lata Tripathi** LPU, India, **Ramandeep Sandhu**, **Sardar M. N. Islam (Naz)**

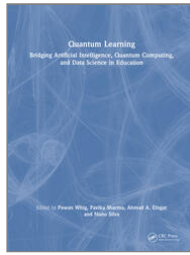
This book explores the transformative potential of Quantum computing in artificial intelligence and its impact on various fields. It delves into the foundational concepts, mathematical frameworks, and algorithmic paradigms, providing a roadmap for interdisciplinary research of Quantum computing in artificial intelligence. With a focus on practical applications and prospects, this book bridges the gap between theory and practice, empowering readers to harness the transformative power of quantum technologies for societal and technological advancement. It is a reference work for academics, scholars, and researchers interested in Quantum computing in artificial intelligence.

Chapman & Hall
April 2026 : 264pp
Hb: 978-1-032-87075-5 : \$160

* For full contents and more information, visit: www.routledge.com/9781032870755

Quantum Learning

Bridging Artificial Intelligence, Quantum Computing, and Data Science in Education



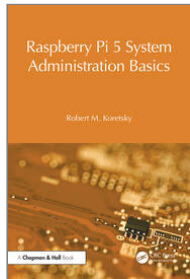
Edited by **Pawan Whig , Pavika Sharma , Ahmad A. Elngar , Nuno Silva**

Quantum Learning: Bridging Artificial Intelligence, Quantum Computing, and Data Science in Education explores the transformative intersection of three of the most powerful technologies shaping the future of learning.

CRC Press
May 2026 : 216pp
Hb: 978-1-041-03779-8 : **\$150**

* For full contents and more information, visit: www.routledge.com/9781041037798

Raspberry Pi 5 System Administration Basics



Robert M. Koretsky

Series: Raspberry Pi OS System Administration with systemd

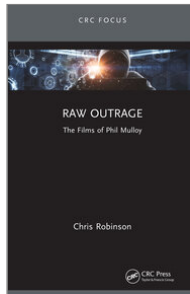
This book covers Raspberry Pi 5 OS concepts and commands that allow a beginner to perform essential system administration and other operations. This is a mandatory set of commands that even an ordinary, non-administrative user would need to know to work efficiently in a character, text-based interface (CUI), or in a graphical interface (GUI) to the operating system. Each chapter contains sequential, inline exercises that reinforce the material that comes before them.

Chapman & Hall
November 2025 : 373pp
Pb: 978-1-041-09903-1 : **\$66.99**
Hb: 978-1-041-09904-8 : **\$84.99**
eBook: 978-1-003-65242-7

* For full contents and more information, visit: www.routledge.com/9781041099031

Raw Outrage

The Films of Phil Mulloy



Chris Robinson

Series: Focus Animation

Phil Mulloy is the punk bluesman of animation. His films are raw, minimalist, and ferociously satirical—short bursts of crude brilliance that confront the hypocrisies of religion, nationalism, masculinity, and class with uncompromising rage. This book traces Mulloy's singular career—his shocking early shorts, experimental features, and recent return with potent works like *Endgame* and *Once Upon a Time on Earth*. Part biography, part critical reflection, and part personal journey, *Raw Outrage* explores how Mulloy's work remains urgent in an age where animation often plays it safe.

CRC Press
November 2025 : 142pp
Hb: 978-1-032-86211-8 : **\$68.99**
eBook: 978-1-003-52790-9

* For full contents and more information, visit: www.routledge.com/9781032862118

Realistic and Ethical Use of Artificial Intelligence



Maggi Savin-Baden Prof of Higher Education Research at Coventry University, UK, **Zak Savin-Baden**

Current perspectives on AI tend to focus on the wide parameters between fear and hope. *Realistic and Ethical Use of Artificial Intelligence* provides some (ethical) hope with realistic solutions. It deals with the complexities of AI, unpacking specific challenges presented by the AI problem and suggesting what we do about them. This up-to-date text is ideal for anyone looking for a deeper understanding of what counts as AI, the moral questions troubling both researchers and the general public, and how AI can be a fantastic tool if built and used ethically.

Chapman & Hall
December 2025 : 200pp
Pb: 978-1-041-03236-6 : **\$66.99**
Hb: 978-1-041-03241-0 : **\$150**

* For full contents and more information, visit: www.routledge.com/9781041032366

Recent Advances in Deep Learning Applications

New Techniques and Practical Examples



Edited by **Uche Onyekpe , Vasile Palade , M. Arif Wani**

This book presents a collection of extended papers selected from the 22nd IEEE International Conference on Machine Learning and Applications (IEEE ICMLA 2023) and focuses on deep learning architectures and their applications in domains such as health care, security and threat detection, education, fault diagnosis, and robotic control in industrial environments.

Chapman & Hall
November 2025 : 374pp
Hb: 978-1-032-94462-3 : **\$160**
eBook: 978-1-003-57088-2

* For full contents and more information, visit: www.routledge.com/9781032944623

Research Methods and Project Management in Games



Pooya Soltani

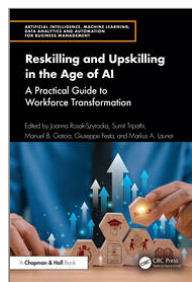
This interdisciplinary guide is designed to equip those across game development and related creative fields with the essential research knowledge and skills to excel. It offers readers practical tools for conducting effective research and managing projects across diverse domains of game creation. The book is suitable for undergraduate students in game design, art, programming, and related disciplines, as well as graduate students pursuing advanced studies in game development, creative technology, and project management. It will also be a valuable resource for professionals in the games industry and other creative sectors who are interested in interdisciplinary research and practice.

CRC Press
March 2026 : 274pp
Pb: 978-1-032-94978-9 : **\$66.99**
Hb: 978-1-032-95192-8 : **\$170**

* For full contents and more information, visit: www.routledge.com/9781032949789

Reskilling and Upskilling in the Age of AI

A Practical Guide to Workforce Transformation



Edited by **Joanna Rosak-Szyrocka**, **Sumit Tripathi**
ATLAS SkillTech University, India, **Manuel B. Garcia**,
Giuseppe Festa, **Markus A. Launer**

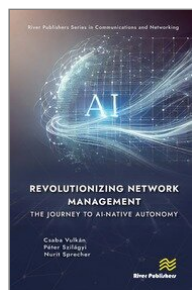
Series: *Artificial Intelligence, Machine Learning, Data Analytics and Automation for Business Management*

This book offers a comprehensive guide to navigating the transformation of the workforce due to AI's influence across industries and discusses detailed strategies for executing reskilling and upskilling programs for professionals and managers in charge of workforce development, training, and employee retention in an AI-driven landscape. As AI continues to reshape sectors and redefine job roles, the need for a strategy for an adaptable and well-equipped workforce has never been more critical.

Chapman & Hall
November 2025 : 274pp
Pb: 978-1-041-00790-6 : **\$69.99**
Hb: 978-1-041-00791-3 : **\$140**
eBook: 978-1-003-61167-7

* For full contents and more information, visit: www.routledge.com/9781041007906

Revolutionizing Network Management: The Journey to AI-native Autonomy



Csaba Vulkán, **Péter Szilágyi**, **Nurit Sprecher**

Series: *River Publishers Series in Communications and Networking*

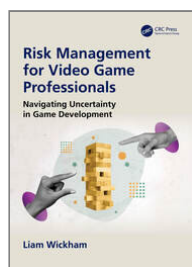
This book provides a comprehensive insight into the automation journey. It explores the vision of zero-touch, AI-native network and service autonomy, examining the key trends, catalysts, and technological advancements shaping this paradigm shift. It provides a comprehensive analysis of critical aspects such as data and knowledge management, security and trust, native AI/ML management, intent-based automation, and human-to-machine as well as machine-to-machine interfaces.

River Publishers
December 2025 : 352pp
Hb: 978-8-770-22863-3 : **\$140**
eBook: 978-8-770-04147-8

* For full contents and more information, visit: www.routledge.com/9788770228633

Risk Management for Video Game Professionals

Navigating Uncertainty in Game Development



Liam Wickham

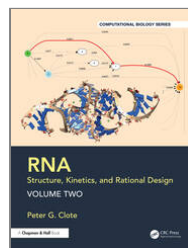
Game development is a high-stakes, high-pressure world where failure often feels inevitable, and success relies on navigating uncertainty. This book gives developers, producers, and leaders the tools to manage risk proactively - before it becomes crisis. Whether you are leading a team through a live ops crunch, juggling dependencies across time zones, or simply trying to avoid the traps that derail so many good games, this book will help you ask better questions, have the right conversations, and treat risk as a creative ally.

CRC Press
January 2026 : 296pp
Pb: 978-1-041-08579-9 : **\$66.99**
Hb: 978-1-041-08580-5 : **\$170**

* For full contents and more information, visit: www.routledge.com/9781041085799

RNA Structure, Kinetics, and Rational Design

Volume Two



Peter G. Clote Bosto College, MA, USA

Series: *Chapman & Hall/CRC Computational Biology Series*

Volumes 1 and 2 of "RNA: Computational methods for structure, kinetics, and rational design" together constitute a comprehensive presentation of RNA secondary structures. Volume 1 concerns thermodynamics, energy parameters, methods to count structures, base pairs, loops, leading to many algorithms concerning RNA structure.

Chapman & Hall
April 2026 : 472pp
Pb: 978-1-032-49666-5 : **\$99.95**
Hb: 978-1-032-49667-2 : **\$190**

* For full contents and more information, visit: www.routledge.com/9781032496665

Scheduling Variable Capacity Resources for Sustainability



Edited by **Anne Benoit** Ecole Normale Supérieure de Lyon, France, **Andrew A. Chien**, **Yves Robert**

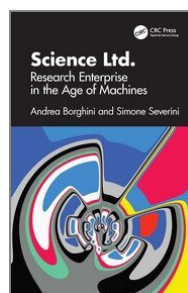
This book is the first to provide an overview of variable capacity scheduling and how it helps balance the growth of computing with its growing environmental impact by creating more resilient and efficient systems that adapt to the dynamic nature of resource availability, optimizing utilization and minimizing disruptions. The book covers all aspects of variable capacity scheduling from a technical and a societal perspective. Presenting all the corresponding challenges and opportunities of variable capacity scheduling, this is an excellent introduction to the topic for students, researchers, computing scientists, or concerned citizens interested in sustainability.

CRC Press
March 2026 : 304pp
Hb: 978-1-032-91628-6 : **\$130**

* For full contents and more information, visit: www.routledge.com/9781032916286

Science Ltd.

Research Enterprise in the Age of Machines



Andrea Borghini, **Simone Severini**

Science LTD examines the evolving relationship between scientific knowledge, technology, and society in an era where deep tech companies are increasingly driven by discoveries rather than market demand.

CRC Press
March 2026 : 216pp
Pb: 978-1-041-13106-9 : **\$66.99**
Hb: 978-1-041-14887-6 : **\$150**

* For full contents and more information, visit: www.routledge.com/9781041131069

Sensors & Instrumentation and Aircraft/Aerospace Testing Techniques, Vol. 8

Proceedings of the 43rd IMAC, A Conference and Exposition on Structural Dynamics 2025



Edited by **Chad Walber**, **Matthew Stefanski**

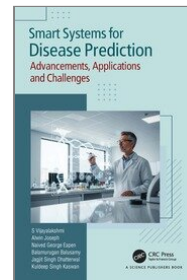
Sensors & Instrumentation and Aircraft/Aerospace Testing Techniques, Volume 8: Proceedings of the 43rd IMAC, A Conference and Exposition on Structural Dynamics, 2025, the eighth volume of twelve from the Conference brings together contributions to this important area of research and engineering. The collection presents early findings and case studies on fundamental and applied aspects of Sensors and Instrumentation and Aircraft/Aerospace Testing Techniques.

River Publishers
January 2026 : 112pp
Hb: 978-8-743-80153-5 : **\$130**

* For full contents and more information, visit: www.routledge.com/9788743801535

Smart Systems for Disease Prediction

Advancements, Applications and Challenges



S **Vijayalakshmi**, **Alwin Joseph**, **Naived George Eapen**, **Balamurugan Balusamy**, **Jagjit Singh Dhatteval**, **Kuldeep Singh Kaswan**

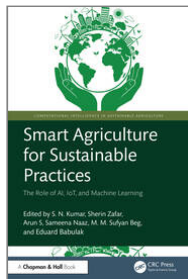
This is a comprehensive book that explores the use of intelligent technologies to predict diseases accurately and efficiently. It covers a wide range of topics, including image and signal processing, behavioural analysis, and the integration of multimodal data in healthcare. The book examines the application of artificial intelligence, machine learning, and data analytics in creating predictive models for diseases. It also addresses the challenges, ethical considerations, and future directions in the field. This work emphasises the significant impact of intelligent systems on enabling early diagnosis, personalised medicine, and improving patient outcomes.

CRC Press
November 2025 : 226pp
Hb: 978-1-032-69956-1 : **\$140**
eBook: 978-1-032-72234-4

* For full contents and more information, visit: www.routledge.com/9781032699561

Smart Agriculture for Sustainable Practices

The Role of AI, IoT, and Machine Learning



Edited by **S. N. Kumar**, **Sherin Zafar** Jamia Hamdard, India, **Arun S**, **Sameena Naaz**, **M. M. Sufyan Beg**, **Eduard Babulak**

Series: *Computational Intelligence in Sustainable Agriculture*

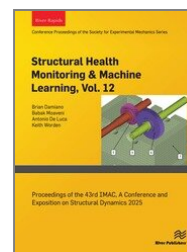
This book offers insights into how modern technologies are transforming agriculture with a focus on sustainability. It explores the current applications of technologies such as AI, IoT, and machine learning, and their impact on improving crop yield, resource efficiency, and environmental impact. Through practical examples and case studies, it demonstrates how these technologies can address challenges in agriculture and enhance operational efficiency. This book is for researchers, professionals, and policymakers interested in leveraging technology for sustainable agricultural practices.

Chapman & Hall
December 2025 : 336pp
Hb: 978-1-032-97501-6 : **\$160**

* For full contents and more information, visit: www.routledge.com/9781032975016

Structural Health Monitoring & Machine Learning, Vol. 12

Proceedings of the 43rd IMAC, A Conference and Exposition on Structural Dynamics 2025



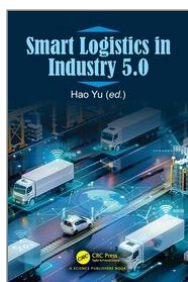
Edited by **Brian Damiano**, **Babak Moaveni**, **Antonio De Luca**, **Keith Worden**

Structural health Monitoring & Machine Learning, Volume 12: Proceedings of the 43rd IMAC, A Conference and Exposition on Structural Dynamics, 2025, the twelfth volume of twelve from the Conference brings together contributions to this important area of research and engineering. The collection presents early findings and case studies on fundamental and applied aspects of the Structural Health Monitoring.

River Publishers
January 2026 : 156pp
Hb: 978-8-743-80157-3 : **\$130**

* For full contents and more information, visit: www.routledge.com/9788743801573

Smart Logistics in Industry 5.0



Edited by **Hao Yu**

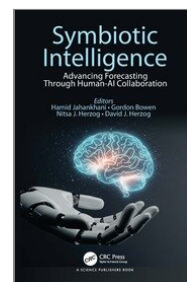
Industry 5.0 is an emerging concept that pursues harmony between human-centricity, sustainability, and resilience in the technology-driven social transition. This book provides an overview of how cutting-edge technologies, i.e., artificial intelligence, data-driven analytics, large language models, simulation and digital twin, extended reality, will reshape future digital and smart logistics planning and operations, emphasizing not only the role of technologies but also the impact on human and sustainability.

CRC Press
November 2025 : 226pp
Hb: 978-1-032-71798-2 : **\$140**
eBook: 978-1-003-46645-1

* For full contents and more information, visit: www.routledge.com/9781032717982

Symbiotic Intelligence

Advancing Forecasting Through Human-AI Collaboration



Edited by **Hamid Jahankhani**, **Gordon Bowen** Anglia Ruskin University, UK, **Nitsa J. Herzog** Northumbria University, UK, **David J. Herzog**

The book incorporates areas associated with AI Demand, including forecasting models, productivity, decision-making that is inclusive of stakeholders, and an enabler of sustainable processes. The scope of the book ranges from medical and healthcare applications of AI, roles that predictive AI can be applied and used in cybersecurity, to strategic intervention via the application of KPIs developed from AI, data pipeline improvement, forecasting in industries such as agriculture, housing stock, traffic management and crime, and sustainability in supply chains.

CRC Press
November 2025 : 342pp
Hb: 978-1-032-86768-7 : **\$140**
eBook: 978-1-003-54037-3

* For full contents and more information, visit: www.routledge.com/9781032867687

Teaching Computers to Read

Effective Best Practices in Building Valuable NLP Solutions



Rachel Wagner-Kaiser

Building Natural Language Processing (NLP) solutions that deliver ongoing business value is not straightforward. This book provides clarity and guidance on how to design, develop, deploy, and maintain NLP solutions that address real-world business problems. Through providing best practices across the lifecycle of NLP development, this handbook will help organizations – particularly technical teams – use critical thinking to understand how, when, and why to build NLP solutions, what the common challenges are, and how to address or avoid them. By doing so, they'll deliver consistent value to their stakeholders and deliver on the promise of AI and NLP.

Chapman & Hall
November 2025 : 238pp
Pb: 978-1-032-48435-8 : **\$64.99**
Hb: 978-1-032-48437-2 : **\$150**
eBook: 978-1-003-38905-7

* For full contents and more information, visit: www.routledge.com/9781032484358

Technological Innovation and Sustainability through AI

Cutting-Edge Solutions for a Sustainable Future



Edited by **El Arbi Abdellaoui Alaoui** Associate Professor, ENS - Moulay Ismail University of Meknès, Morocco, **Cédric Stéphane Koumetio Tekouabou**, **Abdelaaziz Hessane**, **Amine Sallah**

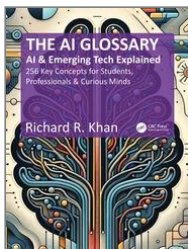
This book provides a comprehensive examination of the role of artificial intelligence (AI) in driving technological innovation and promoting sustainability across various industries. It delves into the intersection of AI, ethics, healthcare, social good, and the future of work, offering insights into how AI is reshaping our world with a focus on sustainable development.

CRC Press
February 2026 : 290pp
Pb: 978-1-041-09155-4 : **\$150**

* For full contents and more information, visit: www.routledge.com/9781041091554

The AI Glossary

AI and Emerging Tech Explained - 256 Key Concepts for Students, Professionals & Curious Minds



Richard R. Khan

Embark on a journey of clarity and discovery with THE AI GLOSSARY: AI & Emerging Tech Explained - 256 Key Concepts for Students, Professionals & Curious Minds. In a world increasingly shaped by AI and rapid advances across adjacent fields, understanding the language of technology is no longer optional. Whether you're a student beginning your journey, a professional seeking an edge, a policymaker weighing impact, or a curious mind eager to understand what's next, this glossary is your essential companion. You'll find clear explanations, cross-references, and context that accelerate learning and decision-making.

Chapman & Hall
January 2026 : 582pp
Pb: 978-1-041-16072-4 : **\$66.99**
Hb: 978-1-041-16073-1 : **\$150**

* For full contents and more information, visit: www.routledge.com/9781041160724

The Anticipatory Design Playbook

A UX Guide to Design AI-Driven Experiences



Joana Cerejo

The Anticipatory Design Playbook is a practical and thought-provoking guide to crafting anticipatory experiences in an age defined by artificial intelligence. Grounded in years of PhD research and real-world design leadership, Joana Cerejo offers a comprehensive framework for designing AI-driven systems that align with user intent, respond to evolving behaviors, and remain transparent, adaptive, and human-centered. More than a framework, The Anticipatory Design Playbook invites us to design with foresight—to create systems that are not just efficient, but context-aware, participatory, and resilient to change.

CRC Press
December 2025 : 288pp
Pb: 978-1-041-07910-1 : **\$66.99**
Hb: 978-1-041-07913-2 : **\$180**
eBook: 978-1-003-64280-0

* For full contents and more information, visit: www.routledge.com/9781041079101

The Art and Science of Virtual Content Creation

Beyond the Screen



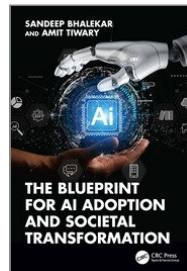
Edited by **Raquel V. Benítez Rojas**

The Art and Science of Virtual Content Creation: Beyond the Screen is a wide-ranging guide that examines the dynamic fusion of creativity and technology in crafting immersive digital experiences.

CRC Press
March 2026 : 280pp
Hb: 978-1-041-13882-2 : **\$110**

* For full contents and more information, visit: www.routledge.com/9781041138822

The Blueprint for AI Adoption and Societal Transformation



Sandeep Bhalekar, **Amit Tiwary** Enterprise Architect at Victoria Police, Melbourne, Australia

This book analyses Artificial Intelligence (AI) and its impact on sustainability, ethics, security, and society. It provides actionable strategies for eco-friendly AI, navigating legal frameworks, and implementing ethical practices. It examines security challenges from AI misuse, outlining necessary cybersecurity enhancements. Real-world case studies bridge theory and practice. Guidance is provided for aligning AI adoption with societal and environmental goals, promoting responsible AI development for a sustainable future.

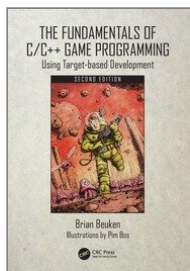
CRC Press
December 2025 : 422pp
Pb: 978-1-041-04030-9 : **\$66.99**
Hb: 978-1-041-04031-6 : **\$250**

* For full contents and more information, visit: www.routledge.com/9781041040309

2ND EDITION

The Fundamentals of C/C++ Game Programming

Using Target-based Development

**Brian Beuken**

This book gives novice coders an understanding of the methods and techniques used in professional games development. Projects are designed to help develop and strengthen problem solving and basic C/C++ skills. The book also helps to develop familiarity with Microsoft Visual Studio's ability to target and use fixed/restricted hardware, which are key skills in console development. This second edition has been fully updated in line with recent hardware changes, with new and updated cross platform code examples hosted at the companion website. This book will be useful to all novice coders looking to learn the fundamentals of C/C++ game programming.

CRC Press

December 2025 : 504pp

Pb: 978-1-032-86380-1 : **\$82.99**Hb: 978-1-032-86472-3 : **\$220**

eBook: 978-1-003-52769-5

* For full contents and more information, visit: www.routledge.com/9781032863801

The Games that Computers (and Humans) Play

A Non-Technical Introduction to Artificial Intelligence



Jonathan Schaeffer University of Alberta Computing Science, 2-21 Athabasca Hall, Edmonton, Alberta, Canada T6G 2E8

Series: *Chapman & Hall/CRC Artificial Intelligence and Robotics Series*

The Games that Computers (and Humans) Play is a non-technical introduction to AI using games to illustrate the concepts, written by an internationally known researcher in Artificial Intelligence. The secrets of the computer's successes are revealed, giving you new-found understanding of how AI enables computers to achieve super-human performance at games, and how this transformative technology is going to revolutionize our world. With easily understandable descriptions, this book is an ideal introduction for the non-scientist and anyone interested in how games have shaped the history and development of Artificial Intelligence.

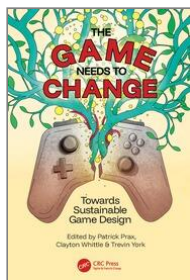
Chapman & Hall

April 2026 : 320pp

Pb: 978-1-041-25270-2 : **\$66.99**Hb: 978-1-032-93661-1 : **\$150*** For full contents and more information, visit: www.routledge.com/9781041252702

The Game Needs to Change

Towards Sustainable Game Design



Edited by **Patrick Prax**, **Clayton Whittle**, **Trevin York**

This book shows how games can play their part in addressing climate change and how we can sustainably make games for sustainability. Based on both industry practice and research, the chapters within give voice to those who are working on sustainability in gaming and through gaming. These perspectives offer pragmatic recommendations and concrete starting points for working towards sustainability, showing you how to get started no matter your role. The book will appeal to game makers who want to address sustainability through the content and message of their creative work, as well as members of the wider game industry who work towards more sustainable practices.

CRC Press

November 2025 : 256pp

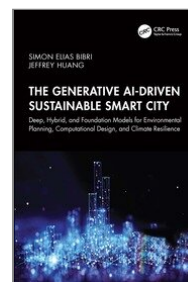
Pb: 978-1-032-83619-5 : **\$49.99**Hb: 978-1-032-84366-7 : **\$170**

eBook: 978-1-003-51240-0

* For full contents and more information, visit: www.routledge.com/9781032836195

The Generative AI-Driven Sustainable Smart City

Deep, Hybrid, and Foundation Models for Environmental Planning, Computational Design, and Climate Resilience



Simon Elias Bibri, **Jeffrey Huang**

The rapid rise of Generative AI is increasingly reshaping the field of urban computing, marking the next frontier of sustainable smart city research and practice. This book takes readers on an exploratory journey into the transformative potential of Deep Generative Models (DGMs), hybrid architectures, and Foundation Models (FMs) to redefine the future urban landscape.

CRC Press

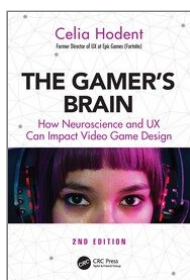
April 2026 : 352pp

Pb: 978-1-041-08723-6 : **\$90.99**Hb: 978-1-041-09448-7 : **\$250*** For full contents and more information, visit: www.routledge.com/9781041087236

2ND EDITION

The Gamer's Brain

How Neuroscience and UX Can Impact Video Game Design



Celia Hodent Epic Games, Cary, North Carolina, USA

Making a successful video game is hard. Even games that are well-received at launch may fail to engage players in the long term due to issues with the user experience (UX) that they are delivering. That's why makers of successful video games like Fortnite and Assassin's Creed invest both time and money perfecting their UX strategy. These top video game creators know that a bad user experience can ruin the prospects for any game, regardless of its budget, scope, or ambition. These insights will help readers identify the ingredients for successful and engaging video games, empowering them to develop their own unique game recipe more efficiently.

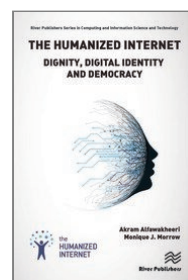
CRC Press

January 2026 : 350pp

Pb: 978-0-367-63818-4 : **\$66.99**Hb: 978-1-032-05857-3 : **\$180*** For full contents and more information, visit: www.routledge.com/9780367638184

The Humanized Internet

Dignity, Digital Identity and Democracy



Akram Alfawakheeri, **Monique J. Morrow**

Series: *River Publishers Series in Computing and Information Science and Technology*

In reading this book, there are key themes that are constant such as the notion of identity and identity sets; e-sovereignty and privacy and most importantly the function of an Internet that is inclusive, not "controlled" by a few organizations for their own profitability. Certainly, "enterprising" the Internet has been a process over these past years and there is no intent to set judgement here but rather pause for a moment and reflect on the impact of these technologies to individuals.

River Publishers

November 2025 : 164pp

Hb: 978-8-770-22032-3 : **\$130**

eBook: 978-8-770-04798-2

* For full contents and more information, visit: www.routledge.com/9788770220323

The Hybrid Mind

The Human-AI Convergence



Joseph X Ng

The Hybrid Mind explores the transformative potential of humans and AI systems collaborating to revolutionize risk management, oversight, and adaptive governance. Introducing Agentic AI—systems capable of autonomous decision-making while preserving human authority—the book outlines a hybrid inference architecture that combines Large and Small Language Models, machine learning, and probabilistic reasoning. Designed for business leaders, technologists, and policymakers, this book serves as both a strategic guide and a moral blueprint for the AI era, in which intelligence is shared, automation is consequential, and responsibility must be architected, not assumed.

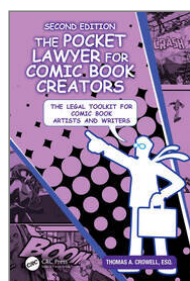
Chapman & Hall
December 2025 : 216pp
Pb: 978-1-041-09076-2 : **\$66.99**
Hb: 978-1-041-09077-9 : **\$150**

* For full contents and more information, visit: www.routledge.com/9781041090762

2ND EDITION

The Pocket Lawyer for Comic Book Creators

A Legal Toolkit for Comic Book Artists and Writers



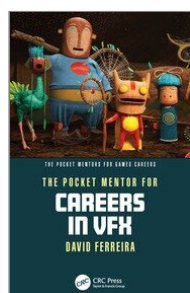
Thomas A. Crowell, Esq. Lawyer, USA

Focal Press' Pocket Lawyer series serves as a legal toolkit for independent producers and artists in the creative industries. The Pocket Lawyer for Comic Book Creators is designed to help emerging artists and veteran professionals in the comic book industry build a solid foundation of business and legal practices for their comic book projects.

CRC Press
February 2026 : 472pp
Pb: 978-1-032-76344-6 : **\$66.99**
Hb: 978-1-032-80248-0 : **\$180**

* For full contents and more information, visit: www.routledge.com/9781032763446

The Pocket Mentor for Careers in VFX



David Ferreira

Series: The Pocket Mentors for Games Careers

Want to progress your career as a CG artist? Then this is the book for you. This book provides all the essential information and guidance you need to understand the industry, get your foot on the ladder, and further your career. This book will be useful to those looking to enter the industry as well as those already working within it and that are looking to further advance their career.

CRC Press
November 2025 : 128pp
Pb: 978-1-032-79579-9 : **\$42.99**
Hb: 978-1-032-79919-3 : **\$125**
eBook: 978-1-003-49448-5

* For full contents and more information, visit: www.routledge.com/9781032795799

The Pocket Mentor for Game Artists

Sander Flisijn

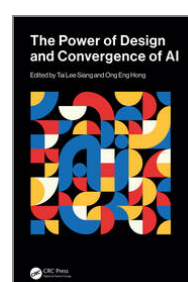
Series: The Pocket Mentors for Games Careers

Want to work as a game artist in the video game industry? Then this is the book for you. It's packed with practical advice and essential insights to help you understand how the industry works, and how to get your foot in the door. The book covers everything from choosing a specialization and building a portfolio to networking, applying for jobs, and thriving in a studio environment. This book will be of great interest to all aspiring game artists and students of game art. It will also appeal to industry professionals looking for new ways to approach their career development.

CRC Press
December 2025 : 204pp
Pb: 978-1-032-78558-5 : **\$42.99**
Hb: 978-1-032-79484-6 : **\$125**

* For full contents and more information, visit: www.routledge.com/9781032785585

The Power of Design and Convergence of AI



Edited by **Tai Lee Siang** Singapore University of Technology and Design, Singapore, **Ong Eng Hong** Singapore University of Technology and Design, Singapore

This book aims to illustrate the value of design in a systematic and scientific manner, to reap the full benefits of design. The authors aim to address the challenges in the quantification and evaluation of the value of design. It will also help the readers understand how impactful design can support future of innovation a sustainable future life when coupled with the power of Artificial Intelligence (AI). The sharing of knowledge from subject matter experts from institutes of higher learning and industry brings content rigor and real-life scenarios which enhances the learning of the reader.

CRC Press
December 2025 : 261pp
Pb: 978-1-032-79385-6 : **\$66.99**
Hb: 978-1-032-79386-3 : **\$250**
eBook: 978-1-003-49178-1

* For full contents and more information, visit: www.routledge.com/9781032793856

3RD EDITION

The Video Games Textbook

History • Business • Technology



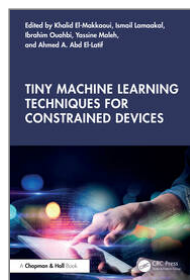
Brian J. Wardyga

The Video Games Textbook takes the history of video games to the next level. Coverage includes every major video game console, handheld system, and game-changing personal computer, as well as a look at the business, technology, and people behind the games. This edition introduces new content in each chapter, including coverage of adaptive gaming technology, cloud gaming, influential industry professionals, hardware innovations, and significant gaming milestones—from classic systems to PlayStation 5 Pro, Nintendo Switch 2, and the latest Xbox platforms.

CRC Press
February 2026 : 412pp
Pb: 978-1-032-97259-6 : **\$84.99**
Hb: 978-1-032-97260-2 : **\$220**

* For full contents and more information, visit: www.routledge.com/9781032972596

Tiny Machine Learning Techniques for Constrained Devices



Edited by **Khalid El-Makkaoui , Ismail Lamaakal , Ibrahim Ouahbi , Yassine Maleh , Ahmed A. Abd El-Latif**

Tiny Machine Learning Techniques for Constrained Devices explores the cutting-edge field of TinyML, enabling intelligent machine learning on highly resource-limited devices such as microcontrollers and edge IoT nodes. This book provides a comprehensive guide to designing, optimizing, securing, and applying TinyML models in real-world constrained environments. This book is an essential resource for embedded system designers, AI practitioners, cybersecurity professionals, and academics who want to harness the power of TinyML for smarter, more efficient, and secure edge intelligence solutions.

Chapman & Hall
February 2026 : 248pp
Hb: 978-1-032-89752-3 : \$110

* For full contents and more information, visit: www.routledge.com/9781032897523

Topics in Modal Analysis & Parameter Identification I, Vol. 9

Proceedings of the 43rd IMAC, A Conference and Exposition on Structural Dynamics 2025



Edited by **Brandon Dilworth , Timothy Marinone , Jon Furlich**

Topics in Modal Analysis, Testing & Parameter Identification I, Volume 9: Proceedings of the 43rd IMAC, A Conference and Exposition on Structural Dynamics, 2025, the ninth volume of twelve from the Conference brings together contributions to this important area of research and engineering. The collection presents early findings and case studies on fundamental and applied aspects of Modal Analysis, Modal Testing.

River Publishers
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Hb: 978-8-743-80154-2 : \$130

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Topics in Modal Analysis & Parameter Identification II, Vol. 10

Proceedings of the 43rd IMAC, A Conference and Exposition on Structural Dynamics 2025



Edited by **Brandon Dilworth , Timothy Marinone , Jon Furlich**

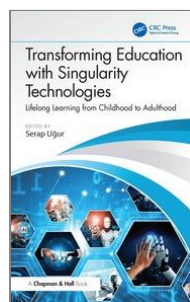
Topics in Modal Analysis & Parameter Identification II, Volume 10: Proceedings of the 43rd IMAC, A Conference and Exposition on Structural Dynamics, 2025, the tenth volume of twelve from the Conference brings together contributions to this important area of research and engineering. The collection presents early findings and case studies on fundamental and applied aspects of Modal Analysis and Modal Parameter Identification.

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Transforming Education with Singularity Technologies

Lifelong Learning from Childhood to Adulthood



Edited by **Serap Uğur**

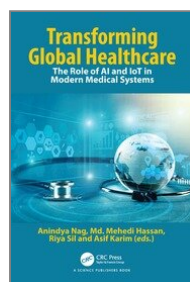
This book presents a transformative vision of education in the era of technological singularity, where artificial intelligence and immersive technology redefine how we learn and teach. Bringing together a global team of experts, the chapters explore the potential of technological singularity to create more equitable and accessible learning experiences for learners of all ages. This book will serve as a valuable resource for educators, researchers and professionals seeking to understand the transformative power of emerging technologies on education and how to navigate the exciting challenges and opportunities ahead.

Chapman & Hall
March 2026 : 344pp
Hb: 978-1-032-95325-0 : \$180

* For full contents and more information, visit: www.routledge.com/9781032953250

Transforming Global Healthcare

The Role of AI and IoT in Modern Medical Systems



Edited by **Anindya Nag , Md. Mehedi Hassan Khulna Uni, Bangladesh, Riya Sil , Asif Karim**

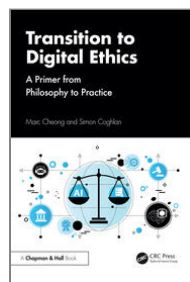
Explores the transformative potential of emerging technologies within the healthcare sector, emphasizing the integration of artificial intelligence, big data, IoT, and blockchain under the framework of Industry 6.0. This comprehensive volume aims to illustrate how these advanced technologies can address sustainability challenges, improve decision-making processes, and enhance overall healthcare delivery.

CRC Press
January 2026 : 366pp
Hb: 978-1-041-02620-4 : \$140
eBook: 978-1-003-63521-5

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Transition to Digital Ethics

A Primer from Philosophy to Practice



Marc Cheong , Simon Coghlan

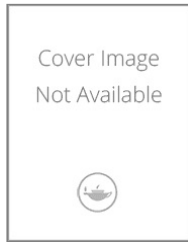
As digital technologies become more pervasive and powerful, they raise increasingly pressing ethical questions that need to be understood and addressed. The book will benefit those who design and implement digital technologies and, more broadly, anyone with an interest in the compelling ethical and social issues arising from digital technologies. It carefully and clearly describes the philosophical ideas as well as technical considerations behind contemporary digital technology use, to provide the reader with a solid footing for further exploration of this rapidly expanding field.

Chapman & Hall
December 2025 : 148pp
Pb: 978-1-032-49384-8 : \$66.99
Hb: 978-1-032-49382-4 : \$250
eBook: 978-1-003-39351-1

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Uncertain Data Analysis

Fuzzy Vector Algorithms



Sansanee Auephanwiriyaikul

This book studies different classification, detection and decision fusion algorithms, and helps practitioners deal with uncertainty in their data sets. Data uncertainties are considered as a collection of linguistic / fuzzy vectors, or a vector of fuzzy numbers and fuzzy algorithms are used to analyze these data sets. There are many theories and applications developed based on fuzzy set theory. This book serves as a guide for practitioners, such as robotics engineers, computer scientists and researchers working on computational intelligence. It is also suitable for graduate courses on fuzzy theories and fuzzy techniques.

CRC Press

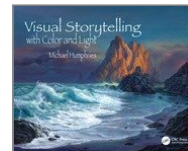
April 2026 : 136pp

Pb: 978-1-041-06020-8 : **\$66.99**

Hb: 978-1-041-06022-2 : **\$190**

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Visual Storytelling with Color and Light



Michael Humphries

In the world today—where digital is considered king—new artists often forego training in traditional mediums, only to find their art suffering down the road. *Visual Storytelling with Color and Light* offers behind-the-scenes secrets of gouache, an opaque watercolor painting technique that naturally leads its practitioners to a deeper understanding of the color theory, composition, and lighting principles they need to succeed in the industry. With insider information on best gouache practices, Photoshop enhancements, and developing a signature style, this new guide has everything you need to take your paintings and backgrounds to the next level.

CRC Press

June 2026 : 288pp

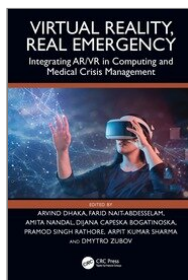
Pb: 978-0-367-86067-7 : **\$66.99**

Hb: 978-0-415-72064-9 : **\$180**

* For full contents and more information, visit: www.routledge.com/9780367860677

Virtual Reality, Real Emergency

Integrating AR/VR in Computing and Medical Crisis Management



Edited by **Arvind Dhaka , Farid Nait-Abdesselam , Amita Nandal , Dijana Capeska Bogatinoska , Pramod Singh Rathore , Arpit Kumar Sharma , Dmytro Zubov**

In an effort to investigate the revolutionary potential of AR and VR technologies in the field of mechanical and medical emergency management, "Virtual Realities, Real Emergencies" was written. This book seeks to educate readers on how augmented and virtual reality (AR/VR) may transform response to emergencies, boost training, and facilitate better decision-making under pressure.

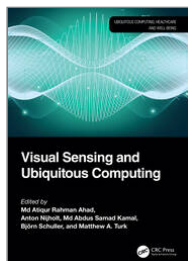
CRC Press

December 2025 : 218pp

Hb: 978-1-032-93208-8 : **\$150**

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Visual Sensing and Ubiquitous Computing



Edited by **Md Atiqur Rahman Ahad , Anton Nijholt , Md Abdus Samad Kamal , Björn Schuller , Matthew A. Turk**

Series: Ubiquitous Computing, Healthcare and Well-being

The book will be related to applied machine learning and deep learning in the field of sensing, vision and sensor-based applications. Apart from a series of methodologies, it will have some- original methods,- exploration of new applications,- presentations on relevant datasets,- challenging applications,- ideas and future scopes with some guidelines. The editors are top experts in these arenas and published many papers and books so far. All chapters are reviewed by experts (2 to 4 reviews). After multiple rebuttals and editing, authors, globally, related to this domain will submit the final chapters.

CRC Press

May 2026 : 182pp

Hb: 978-1-032-76650-8 : **\$180**

* For full contents and more information, visit: www.routledge.com/9781032766508

Building a Circular Future in Australia

Why, What and How?



Usha Iyer-Raniga RMIT University, Australia, **Jacqueline Cramer** Utrecht university, Netherlands

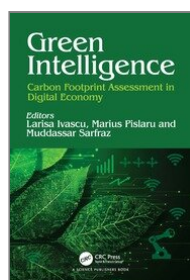
This book explores the transition to the circular economy through a multi-dimensional lens, highlighting its necessity for a sustainable future. It analyses both public and network governance models essential for systemic transitions and contextualises these for Australia's unique socio-political landscape. Through analyses in two key sectors—textiles and construction—the book identifies emerging trends, barriers, and opportunities. The book concludes with ten actionable takeaways for implementing circular practices, underscoring the importance of enabling transformative, inclusive, and place-based circular economy transitions.

CRC Press
February 2026 : 248pp
Hb: 978-1-032-44156-6 : \$140

* For full contents and more information, visit: www.routledge.com/9781032441566

Green Intelligence

Carbon Footprint Assessment in Digital Economy



Edited by **Larisa Ivascu** University of Timisoara, Romania, **Marius Pislaru** Technical University Gheorghe, **Muddassar Sarfraz** Zhejiang Shuren University, China

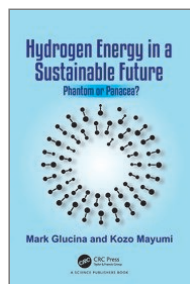
This book investigates how digital technologies, intelligent systems, and data analytics are reshaping environmental accountability and green practices. It delves into strategies for integrating sustainability into digital economies, highlighting real-world applications, case studies, and policy implications. Bridging theory and practice, this volume serves as a valuable guide for academics, professionals, and decision-makers committed to a greener, smarter future. This volume is an important support for professionals, researchers, teachers, students, Phd students and society.

CRC Press
December 2025 : 206pp
Hb: 978-1-032-84012-3 : \$140
eBook: 978-1-003-51899-0

* For full contents and more information, visit: www.routledge.com/9781032840123

Hydrogen Energy in a Sustainable Future

Phantom or Panacea?



Mark Glucina , **Kozo Mayumi**

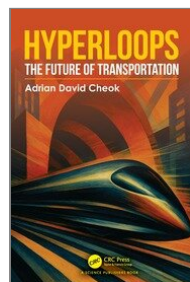
Hydrogen — the first element, clean burning and packed with energy — has been hailed as the fuel of the future for generations. Today it is cast as a linchpin of decarbonisation and backed by billions in subsidies. But is hydrogen really the net-zero breakthrough we've been waiting for, or a costly distraction? This book cuts through the hype, unpacking the science, economics, and politics of the hydrogen economy with clarity and precision. Drawing on decades of energy research, it shows where hydrogen might truly deliver — and where it won't. A sharp, timely guide to the new hydrogen gold rush.

CRC Press
January 2026 : 226pp
Hb: 978-1-032-42147-6 : \$140

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Hyperloops

The Future of Transportation



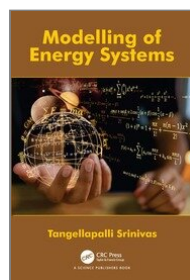
Adrian David Cheok iUniversity Tokyo Japan

Embarks on a cutting-edge journey through the revolutionary Hyperloop, the groundbreaking transportation system set to redefine speed, sustainability, and efficiency. This comprehensive analysis demystifies complex engineering concepts, revealing how Hyperloops master friction and air resistance to reach unprecedented speeds beyond 700 mph, while upholding rigorous safety standards. Through insightful case studies and rigorous cost-benefit evaluations, discover the transformative economic, environmental, and societal impacts of Hyperloop systems, poised to reshape global connectivity and urban landscapes.

CRC Press
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Hb: 978-1-032-88140-9 : \$140
eBook: 978-1-003-54668-9

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Modelling of Energy Systems



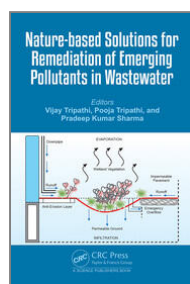
Tangellapalli Srinivas

This book explores the principles, methods, and tools used to design, analyse, and optimize diverse energy systems. Covering both conventional and renewable energy technologies, the book integrates theoretical foundations with practical modelling approaches to address real-world challenges in energy generation, conversion, and utilization. It emphasizes system-level thinking, incorporating aspects such as energy flow, thermodynamics, solar geometry, thermal systems, and advanced computational methods.

CRC Press
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Hb: 978-1-032-64248-2 : \$140
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Nature-based Solutions for Remediation of Emerging Pollutants in Wastewater



Edited by **Vijay Tripathi** , **Pooja Tripathi** , **Pradeep Kumar Sharma**

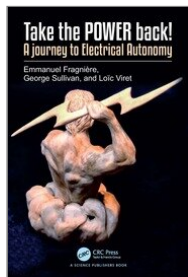
Nature-based Solutions for Remediation of Emerging Pollutants in Wastewater presents a comprehensive overview of sustainable approaches towards tackling one of the most pressing environmental challenges we face currently. Covering innovative strategies such as phytoremediation, biochar applications, constructed wetlands, algal-bacterial systems, biofiltration, and enzyme-based technologies, this volume highlights the potential of eco-friendly methods to remove pharmaceutical residues, heavy metals, microplastics, and other emerging contaminants.

CRC Press
February 2026 : 318pp
Hb: 978-1-032-83392-7 : \$160

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Take the POWER back!

A journey to Electrical Autonomy



Emmanuel Fragnière , George Sullivan , Loïc Viret

This is a practical handbook for the implementation of low/zero carbon microgrids. It covers the benefits of microgrids, different types of solutions, and regulatory aspects. The book emphasizes the concept of the prosumer, highlighting the potential benefits for communities when consumers become producers. Practical advice is provided on microgrid components, such as smart meters, inverters, power generation and storage, and control equipment, with short illustrations.

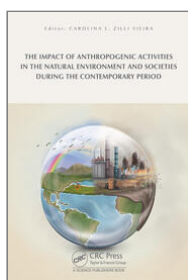
CRC Press

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Hb: 978-1-032-65491-1 : \$160

* For full contents and more information, visit: www.routledge.com/9781032654911

The Impact of Anthropogenic Activities on the Natural Environment and Societies during the Contemporary Period



Edited by **Carolina Leticia Zilli Vieira** Harvard T. Chan School of Public Health, USA

This groundbreaking book by Dr. Carolina Leticia Zilli Vieira offers a sweeping exploration of humanity's impact on the environment and health, starting from the Industrial Revolution to the current times. Covering topics such as air and water pollution, electromagnetic radiation, medical and dental waste management, agricultural practices, natural resource overuse, and the ethics of environmental stewardship, Dr. Zilli Vieira and co-authors link scientific evidence with policy and social consequences. By uniting historical perspectives, scientific insight, and preventive strategies, this book presents a compelling roadmap for building healthier societies and a more sustainable planet.

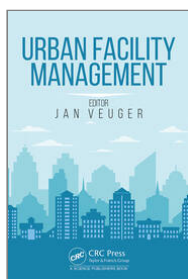
CRC Press

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Urban Facility Management



Edited by **Jan Veuger** Blockchain Saxion University of Applied Sciences, The Netherlands

This is the first interdisciplinary book on a holistic approach to Urban Facility Management (UFM) based on recent scientific insights and analysis over a defined period of eight years of research. With this book, I would like to share insights on UFM together with several other authors and specialists worldwide. The book covers what is UFM, the added value of UFM, the results of eight years of scientific research and finally how can we face the future of UFM. UFM adds value by developing sustainable, resilient and vibrant cities that improve the quality of life for residents. UFM promotes economic growth and ensures efficient and effective use of resources.

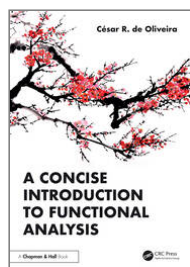
CRC Press

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A Concise Introduction to Functional Analysis



César R. de Oliveira

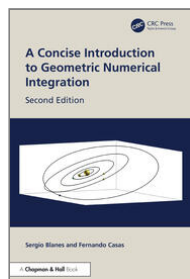
A Concise Introduction to Functional Analysis is designed to serve a one-semester introductory graduate (or advanced undergraduate) course in functional analysis.

Chapman & Hall
January 2026 : 216pp
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2ND EDITION

A Concise Introduction to Geometric Numerical Integration



Sergio Blanes Universitat Politècnica de València, València, Spain, **Fernando Casas** Universitat Jaume I, Castellón, Spain

A Concise Introduction to Geometric Numerical Integration, Second Edition presents the main themes, techniques, and applications of geometric integrators for researchers in mathematics, physics, astronomy, and chemistry who are already familiar with numerical tools for solving differential equations.

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Series: Textbooks in Mathematics

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Dan Gabriel Cacuci University of South Carolina

Series: Advances in Applied Mathematics

As this book shows, in sensitivity analysis using conventional methods, the number of large-scale computations increases exponentially in the phase-space of "model parameters" as the order of sensitivities increases. The "adjoint method" of sensitivity analysis conceived by Cacuci is the most efficient method for computing exactly first-order sensitivities, as it requires a single large-scale (adjoint) computation, independently of the number of model parameters. The book will be of interest to postgraduate and professional mathematicians as well as engineers and scientists.

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Borel Games



Eilon Solan

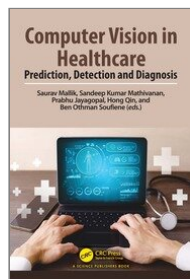
Borel Games are multiplayer games with infinite horizon and general payoff functions.

Chapman & Hall
November 2025 : 240pp
Hb: 978-1-032-94865-2 : \$99.99
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Computer Vision in Healthcare

Prediction, Detection and Diagnosis



Edited by **Saurav Mallik** University of Arizona, US,
Sandeep Kumar Mathivanan, **Prabhu Jayagopal**
Vellore Institute Tech, India, **Hong Qin**, **Ben Othman**
Soufiene University of Gabes, Tunisia

It examines the application of computer vision techniques in various healthcare domains, including diagnostic imaging, surgical interventions, clinical decision support, and healthcare management. It will provide a landscape of the recent advancements and potential future scopes of computer vision applications in healthcare services. It also reviews the challenges and shortcomings in implementing computer vision systems in real-world healthcare settings and discusses potential solutions.

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Convex Analysis



Steven G. Krantz Washington University, St. Louis,
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Series: *Textbooks in Mathematics*

This textbook, now in its second edition, introduces analytic tools for studying convexity and provides analytical applications of the concept. It includes a general background on classical geometric theory, revealing a glimpse of how modern mathematics is developed and how geometric ideas may be studied analytically. The book presents an analytic way to think about convexity theory. The reader with only a basic background in real analysis (and perhaps a little linear algebra) can get a lot out of this book. This book is a definitive introductory text to the concept of convexity in the context of mathematical analysis and a suitable resource for students and faculty alike.

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Differential Modules over Differential Rings



Andy R. Magid The University of Oklahoma, Norman,
USA

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This book provides an introduction and reference for researchers in commutative and differential algebra and could be used as the basis for a graduate course or seminar. The book is best suited to an audience for whom the terminology of rings, modules, homomorphisms, and categories is already familiar. Although the topic is rooted in differential algebra, and the book should be of interest to workers in that area, no particular prior knowledge of differential algebra is assumed. When it is necessary to use specialized results from differential algebra, especially Picard—Vessiot theory, the necessary definitions and theorems are supplied.

Chapman & Hall
April 2026 : 240pp
Hb: 978-1-032-58810-0 : \$140

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Discrete Mathematics for Data Science



Jack Pope

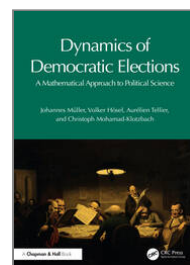
Discrete Mathematics for Data Science provides an early course in both Data Science and Discrete Mathematics, focusing on how a deeper understanding of the former can unlock a more effective implementation of the latter.

Chapman & Hall
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Dynamics of Democratic Elections

A Mathematical Approach to Political Science



Johannes Müller, **Volker Hösel**, **Aurélien Tellier**,
Christoph Mohamad-Klotzbach

Dynamics of Democratic Elections explores modeling approaches to democratic elections and opinion dynamics at the intersection of mathematics, political science, and computational modeling.

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2ND EDITION

Elements of Topology

Theory and Practice



Steven G. Krantz Washington University, St. Louis,
Missouri, USA

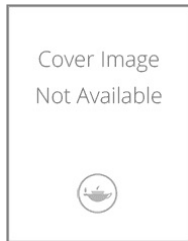
Series: *Textbooks in Mathematics*

Now in its second edition, this book is an ambitious but optimistic treatment of the subject of topology. It gives an introduction to algebraic topology, a treatment of manifolds, a discussion of function spaces, some ideas of knot theory, a presentation of graph theory, and some ideas from dynamical systems. Even the exciting new topic of the Jones polynomial is covered. Topic coverage has been reduced in this new edition, and exercise sets have been added at the end of each section. Today's students need a text that speaks to them in their own language, and at a pace with which they are comfortable. That is the goal of this edition.

Chapman & Hall
April 2026 : 264pp
Hb: 978-1-041-21683-4 : \$120

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Everyday Life is Full of Math



Jun Mitani University of Tsukuba, Japan

Series: AK Peters/CRC Recreational Mathematics Series

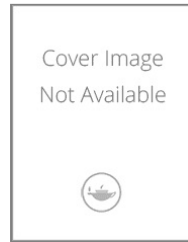
This book explores how mathematics appears in everyday life. It presents math in a fun and beautiful way using knowledge at the junior high and high school level.

A K Peters/CRC Press
March 2026 : 232pp
Pb: 978-1-041-13349-0 : **\$29.99**
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Fractional Calculus for Skeptics II

Quantifying Roughness



Bruce J. West North Carolina State University, USA;
Center for Nonlinear Science, UNT, Denton, TX, USA,
YangQuan Chen University of California Merced, USA

Series: Fractional Order Thinking in Exploring the Frontiers of STEM

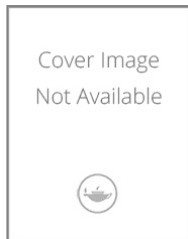
This second volume of the multi-volume Fractional Calculus for Skeptics explores the concept of "roughness" and its applications in complex systems. It demonstrates how fractional calculus offers valuable insights into modeling real-world phenomena that traditional calculus struggles to address. This book will appeal to students, researchers, and professionals in STEM fields, including engineering, physics, biology, biomedicine, control engineering, rehabilitation, big data, and machine learning.

CRC Press
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Finite Element Methods for Eigenvalue Problems



Jiguang Sun Michigan Technological University, Houghton, USA, **Aihui Zhou** Chinese Academy of Sciences, Beijing, China

Series: Chapman & Hall/CRC Monographs and Research Notes in Mathematics

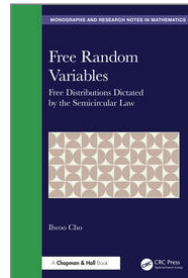
Covers finite element methods for several typical eigenvalues that arise from science and engineering. Both theory and implementation are covered in depth at the graduate level.

Chapman & Hall
April 2026 : 382pp
Hb: 978-1-032-98302-8 : **\$200**

* For **full contents** and more information, visit: www.routledge.com/9781032983028

Free Random Variables

Free Distributions Dictated by the Semicircular Law



Ilwoo Cho Saint Ambrose University, Iowa

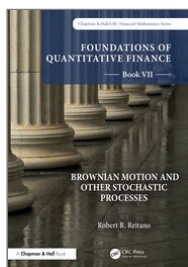
Series: Chapman & Hall/CRC Monographs and Research Notes in Mathematics

Free Random Variables: Free Distributions Dictated by the Semicircular Law is particularly concerned with operators which are not self-adjoint, but whose free distributions are dictated by the semicircular law.

Chapman & Hall
November 2025 : 132pp
Hb: 978-1-041-10346-2 : **\$220**
eBook: 978-1-003-65576-3

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Foundations of Quantitative Finance, Book VII: Brownian Motion and Other Stochastic Processes



Robert R. Reitano

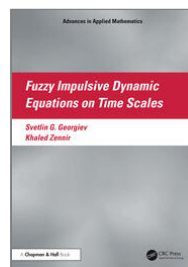
Series: Chapman and Hall/CRC Financial Mathematics Series

This is the seventh book in a set of ten published under the collective title of Foundations of Quantitative Finance. This book introduces and develops properties of Brownian motion, arguably the most famous of stochastic processes, as well as two other classes of stochastic processes: Markov processes and martingales. For some with more experience, this book will be the place to start in the series, while others will find that Books I-VI are a needed foundation. The book is for researchers and practitioners of quantitative finance.

Chapman & Hall
April 2026 : 480pp
Pb: 978-1-032-22959-1 : **\$99.99**
Hb: 978-1-032-23117-4 : **\$250**

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Fuzzy Impulsive Dynamic Equations on Time Scales



Svetlin Georgiev , Khaled Zennir Qassim University

Series: Advances in Applied Mathematics

This book presents the main tools for investigations of the existence and uniqueness of as well as the existence of multiple solutions for initial- and boundary-value problems for fuzzy impulsive dynamic equations on time scales. This book is intended for researchers and students in engineering and science. There are eight chapters in this book. The chapters in the book are organized in a way that is pedagogically accessible.

Chapman & Hall
November 2025 : 558pp
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Handbook of Quantitative Sustainable Finance



Edited by **Peter Tankov , Ruixun Zhang**

Series: *Chapman and Hall/CRC Financial Mathematics Series*

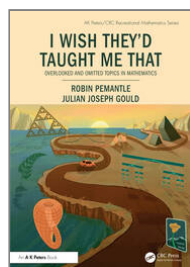
Handbook of Quantitative Sustainable Finance is an edited collection concerning the integration of sustainability and climate risk considerations into mathematical and quantitative finance.

Chapman & Hall
December 2025 : 512pp
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I Wish They'd Taught Me That

Overlooked and Omitted Topics in Mathematics



Robin Pemantle , Julian Joseph Gould

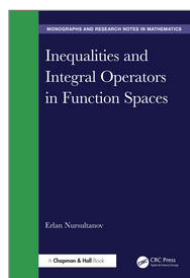
Series: *AK Peters/CRC Recreational Mathematics Series*

I Wish They'd Taught Me That: Overlooked and Omitted Topics in Mathematics concerns the topics which every undergraduate mathematics student "should" know but has probably never encountered.

A K Peters/CRC Press
November 2025 : 366pp
Pb: 978-1-032-87034-2 : **\$39.99**
Hb: 978-1-032-87036-6 : **\$250**
eBook: 978-1-003-53058-9

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Inequalities and Integral Operators in Function Spaces



Erlan Nursultanov

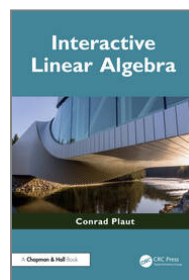
Series: *Chapman & Hall/CRC Monographs and Research Notes in Mathematics*

Inequalities and Integral Operators in Function Spaces focuses primarily on new approaches to the interpolation of spaces, which significantly extend the classical framework of the methods developed by Lions and Peetre.

Chapman & Hall
January 2026 : 322pp
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Interactive Linear Algebra



Conrad Plaut

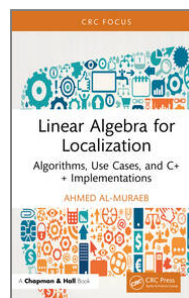
Course materials for introductory linear algebra. The software consists of around 75 (and growing) highly visual online apps that are fully self-contained. Immersed in each app, students make problem-solving decisions in real time, while the software handles routine, low-level calculations to show the outcome of each decision. Students are unencumbered by tedious "pencil and paper" calculations that STEM professionals haven't used for decades, and focus on rapid problem-solving skills.

Chapman & Hall
April 2026 : 208pp
Pb: 978-1-041-14417-5 : **\$69.99**
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Linear Algebra for Localization

Algorithms, Use Cases, and C++ Implementations



Ahmed Al-Muraeb

This book emphasises the vital role of linear algebraic models in solving localization problems, as well as many other problems in algorithms, data science, and Artificial Intelligence.

Chapman & Hall
February 2026 : 128pp
Hb: 978-1-041-07334-5 : **\$69.99**

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Mastering Geometry Puzzles



Paulo Ferro

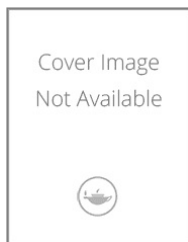
Series: *AK Peters/CRC Recreational Mathematics Series*

This book will challenge mathematical skills in a totally different way from the usual geometric puzzles. Across 5 chapters, there are 120 visually intriguing puzzles, each one corresponding to a level of difficulty, from the very easy to the very hard. There are different types of geometry puzzles in the book, such as simple shapes consisting of triangles and circles; puzzles shaped as objects such as a hamburgers or birds; and Japanese shape-based puzzles such as a samurai or bonsai. The puzzles are designed for beginners right through to more experienced puzzlers seeking a challenge. Solving these fun puzzles will enhance the reader's understanding of mathematics.

Chapman & Hall
April 2026 : 352pp
Pb: 978-1-041-24586-5 : **\$34.99**
Hb: 978-1-041-24589-6 : **\$250**

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Mathematical Modelling Techniques



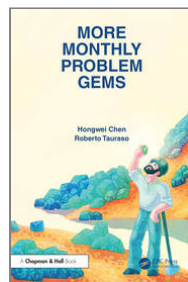
Harald Krogstad , Mohammed Yiha Dawed , Patrick Tchepmo Djomegni , Julien Arino

Offers a structured and comprehensive introduction to mathematical modelling, blending classical methods with original content. Its goal is to equip beginning graduate students and advanced undergraduates in applied mathematics, statistics, and related fields with the tools to formulate, analyze, and interpret models across natural sciences, engineering, and biology.

Chapman & Hall
April 2026 : 218pp
Pb: 978-1-041-21007-8 : **\$89.99**
Hb: 978-1-041-21009-2 : **\$230**

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More Monthly Problem Gems



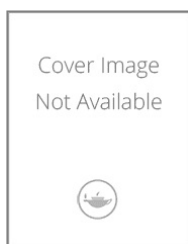
Hongwei Chen Department of Mathematics, Christopher Newport University, **Roberto Tauraso**

A sequel to Monthly Problem Gems (CRC Press, 2021), this book covers a broader range of math problems. In addition to analysis problems, problems from number theory, combinatorics, algebra, and geometry are included. The presents a new type of problem-solving. It will challenge and stimulate math problem-solvers at varying degrees of proficiency. Since the selected problem gems contain sophisticated ideas and connect to important current research, this book is also geared toward graduate students in math and engineering. Many of the problems in this book were originally offered in the American Mathematical Monthly.

Chapman & Hall
November 2025 : 323pp
Pb: 978-1-041-00321-2 : **\$49.99**
Hb: 978-1-041-00015-0 : **\$120**
eBook: 978-1-003-60780-9

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Mathematics for Artificial Intelligence



Jane Hawkins

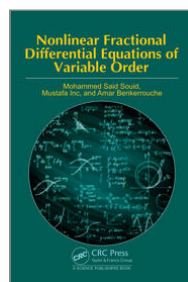
Series: Textbooks in Mathematics

This book provides the basic mathematics needed to understand AI and ML. It serves both students of mathematics and those who want to fill any gaps in their mathematics experience. It is written as both a text for a course and as a focused look at mathematics needed for readers hoping to learn more. The author has taught every topic in this book, often in different contexts, and the material and exercises are drawn from lecture notes. The material in the book represents a curated set of topics from the undergraduate math curriculum, some first-year seminar material, and some student project topics.

Chapman & Hall
March 2026 : 248pp
Pb: 978-1-041-16197-4 : **\$54.99**
Hb: 978-1-041-16198-1 : **\$120**

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Nonlinear Fractional Differential Equations of Variable Order



Mohammed Said Souid , Mustafa Inc , Amar Benkerrouche

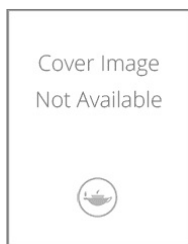
The book explores the theory and applications of fractional differential equations with variable order. It delves into the mathematical foundations, including notations, definitions, and key theorems, while also addressing practical applications in various fields. The book will guide readers from basic concepts to advanced topics, making it suitable for both researchers and graduate students in mathematics, engineering, and applied sciences. Each chapter includes illustrative examples and numerical applications to reinforce theoretical concepts. The book also emphasizes stability analysis and the use of fixed-point theorems in solving fractional differential equations.

CRC Press
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Hb: 978-1-041-12067-4 : **\$140**

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Rafael H. Villarreal

Series: Chapman & Hall/CRC Monographs and Research Notes in Mathematics

Monomial Algebras presents algebraic, combinatorial, and computational methods for studying monomial algebras and their ideals, including Stanley–Reisner rings, monomial subrings, Ehrhart rings, and blowup algebras

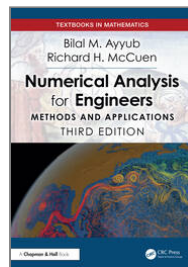
Chapman & Hall
April 2026 : 784pp
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Numerical Analysis for Engineers

Methods and Applications



Bilal M. Ayyub University of Maryland, College Park, USA,
Richard H. McCuen University of Maryland, College Park, USA

Series: Textbooks in Mathematics

This widely used textbook demonstrates the power of numerical methods in the context of solving complex engineering and scientific problems.

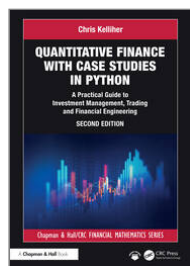
Chapman & Hall
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Quantitative Finance with Case Studies in Python

A Practical Guide to Investment Management, Trading and Financial Engineering



Chris Kelliher Fidelity Investments, USA

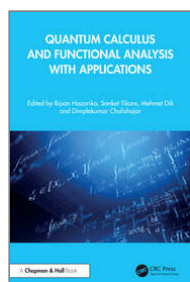
Series: *Chapman and Hall/CRC Financial Mathematics Series*

Quantitative Finance with Case Studies in Python: A Practical Guide to Investment Management, Trading and Financial Engineering bridges the gap between the theory of mathematical finance and the practical applications of these concepts for derivative pricing and portfolio management.

Chapman & Hall
December 2025 : 766pp
Hb: 978-1-032-86800-4 : \$120

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Quantum Calculus and Functional Analysis with Applications



Edited by **Bipan Hazarika**, **Sanket Tikare**, **Mehmet Dik**, **Dimplekumar Chalishajar**

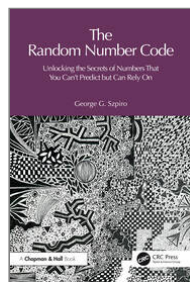
This book presents advanced research on quantum calculus, functional analysis, and their interdisciplinary applications. It focuses on solving complex challenges in areas such as quantum transport, carbon nanotubes, approximation theory, optimal control models, and renewable natural resources by providing cutting-edge developments in these specialised fields. Based on original research, it offers new insights into topics such as neutrosophic normed spaces, probabilistic normed spaces, quantum sequence spaces, and q-calculus applications in functional analysis for innovative applications across fields as diverse as energy, environmental science, and bioengineering.

Chapman & Hall
November 2025 : 410pp
Hb: 978-1-041-01447-8 : \$200
eBook: 978-1-003-61875-1

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The Random Number Code

Unlocking the Secrets of Numbers That You Can't Predict but Can Rely On



George Szpiro

The book discusses random numbers under five headings: What are they? What are they good for? How do we produce them? Why do we need them? How do we fake them?

Chapman & Hall
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Pb: 978-1-041-07329-1 : \$34.99
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Real and Functional Analysis



Kenneth Kuttler Brigham Young University

Series: *Textbooks in Mathematics*

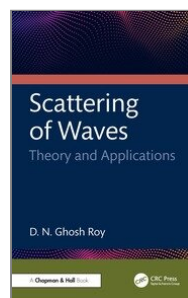
This unique book gives a manageable introduction to functional analysis and a thorough treatment of real analysis. Authored as a graduate textbook in analysis, the book could be used for a course in real analysis based on the Lebesgue theory of integration and/or a course on functional analysis. It is assumed the reader has studied a normed vector space, sometimes referred to as a linear space, along with the basic linear theorems, and has a working knowledge of basic set theory and the notation used in this subject. Otherwise, the book is essentially self-contained. Many of the exercises extend the theorems and supply examples to illustrate the theorems proved in the book.

Chapman & Hall
March 2026 : 548pp
Hb: 978-1-041-22999-5 : \$120

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Scattering of Waves

Theory and Applications



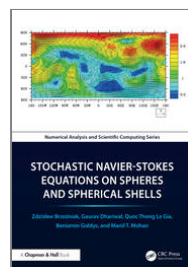
D. N. Ghosh Roy (816)Utah Center For Advanced Imaging Research (UCAIR), Salt Lake City, USA

Scattering of Waves: Theory and Applications explores the underlying concepts, physics and mathematics of wave scattering and wave field structures and self-consistently introduces a range of topics in scalar acoustics and quantum and vector electromagnetic scattering. Primarily aimed at advanced students of physics, engineering and applied mathematics, this text will also be valuable to researchers and faculties in electromagnetics, acoustics and quantum mechanics.

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Stochastic Navier-Stokes Equations on Spheres and Spherical Shells



Zdzisław Brzeźniak Department of Mathematics, University of York, **Gaurav Dhariwal** LLOYDS BANKING GROUP, **Quoc Thong Le Gia** University of New South Wales, **Benjamin Goldys** University of Sydney, School of Mathematics, **Manil T. Mohan** Indian Institute of Technology Roorkee, Uttarakhand

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Stochastic Navier-Stokes Equations on Spheres and Spherical Shells provides a systematic and self-contained introduction to both deterministic and stochastic Navier-Stokes equations on the unit sphere and spherical shells. It is intended for graduate students at the M.S. and Ph.D. levels, as well as researchers and scientists from any academic field interested in the Navier-Stokes equations and their applications to atmospheric science and global climate models.

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Sustainable Financial Structured Products

Managing Risk Appetites across Modelling, Structuring, and Hedging



Aymeric Kalife

Series: Chapman and Hall/CRC Financial Mathematics Series

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Tic Tac Test

Beat the Book at Noughts and Crosses



Barry R. Clarke

Series: AK Peters/CRC Recreational Mathematics Series

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The e-Dimensionality Information Principle

Information, Representation, and Algorithms



Subhash Kak

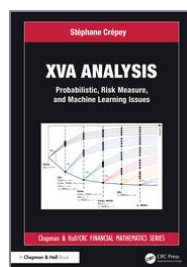
Analyses algorithms that generate optimal dimensionality fractals of different kinds, ranging from linear structures to three-dimensional ones.

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XVA Analysis

Probabilistic, Risk Measure, and Machine Learning Issues



Stéphane Crépey Université d'Evry-Val-d'Essonne, Evry, France

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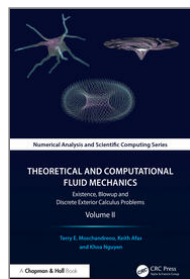
XVA Analysis: Probabilistic, Risk Measure, and Machine Learning Issues offers readers an up-to-date and comprehensive exploration of the X-Value Adjustment (XVA) universe and of the embedded risk measure issues inherent within it.

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Theoretical and Computational Fluid Mechanics

Existence, Blowup and Discrete Exterior Calculus Problems, Volume II



Terry E. Moschandreou , Keith Afas , Khoa Nguyen , Konstantinos Kyritsis

Series: Chapman & Hall/CRC Numerical Analysis and Scientific Computing Series

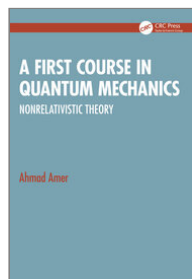
Theoretical and Computational Fluid Mechanics: Existence, Blowup and Discrete Exterior Calculus Problems, Volume II is self-contained, though it builds upon the work of the previous volume in providing a comprehensive introduction to the mathematical theory of incompressible flows.

Chapman & Hall
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A First Course in Quantum Mechanics

Nonrelativistic Theory



Ahmad Amer

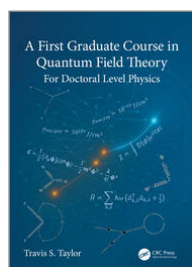
Aims to provide a clear structured and accessible introduction to the fundamental principles of quantum mechanics tailored for undergraduate students.

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A First Graduate Course in Quantum Field Theory

For Doctoral Level Physics



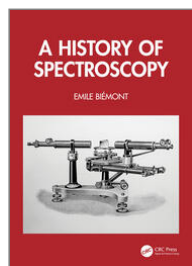
Travis S. Taylor Author and Consultant, Huntsville, Alabama USA

This book is designed as an introductory course in Quantum Field Theory (QFT) for students who have completed two full graduate-level courses in Quantum Mechanics (QM). Quantum Field Theory is the framework that combines quantum mechanics with special relativity, providing a comprehensive description of fundamental forces and particles. It is a crucial part of modern theoretical physics and essential for understanding the behaviour of elementary particles, the dynamics of fields, and the interactions that govern the universe at the smallest scales. This book is structured to gradually introduce the key concepts and mathematical tools necessary for mastering QFT.

CRC Press
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A History of Spectroscopy



Emile Biémont

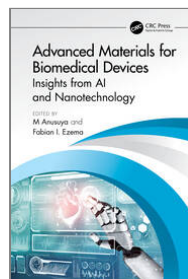
A History of Spectroscopy retraces the major stages in the growth of the various spectroscopic methods from their origins, as well as the most recent advances and the hopes they raise for future technological progress. With its multidisciplinary aspects, it embodies a masterly and unique effort which has no equivalent in the published literature. The present contribution will be read with profit not only by students embarking on a career in physics in general and in spectroscopy or astrophysics more specifically, but also by students in many other related fields like chemistry, biology, medicine, pharmacy and engineering.

CRC Press
November 2025 : 728pp
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Advanced Materials for Biomedical Devices

Insights from AI and Nanotechnology



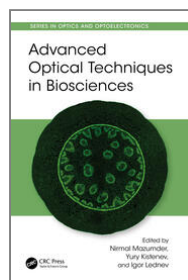
Edited by **M Anusuya , Fabian I. Ezema**

Advanced Materials for Biomedical Devices: Insights from AI and Nanotechnology explores the intersection of advanced materials science, artificial intelligence (AI), and nanotechnology, specifically targeting innovations in biomedical devices. This book delves into cutting-edge advancements in materials such as biocompatible polymers, nanostructured surfaces, smart hydrogels, and bioactive ceramics. It discusses their applications in areas like drug delivery, tissue engineering, diagnostics, and implantable devices. The book also examines how AI-driven tools and machine learning algorithms are revolutionizing material discovery, property prediction, and device optimization.

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Advanced Optical Techniques in Biosciences



Edited by **Nirmal Mazumder , Yury Kistenev , Igor Lednev**

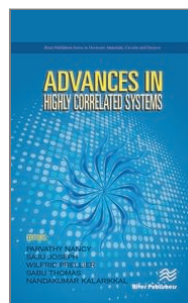
Series: Series in Optics and Optoelectronics

This book is an interdisciplinary resource that deals with the in-depth analysis of several industrially and economically important physicochemical properties that have a wide range of applications for the pharmaceutical sector, food sciences, the textile industry, drug delivery and tissue engineering. This comprehensive volume explores cutting-edge optical technologies revolutionizing biomedical research and diagnostics. From molecular-level investigations using carbon nanotubes to advanced imaging techniques like Fluorescence Lifetime Imaging Microscopy and Quantitative Phase Imaging, readers will discover how optical science is transforming our understanding of biological systems.

CRC Press
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Advances in Highly Correlated Systems



Edited by **Parvathy Nancy , Saju Joseph , Wilfrid Prellier , Sabu Thomas , Nandakumar Kalarikkal**

Series: River Publishers Series in Electronic Materials, Circuits and Devices

Advances in Highly Correlated Systems explore the fundamentals, recent advances, and applications of the physics of highly correlated materials. This book serves as a handbook/reference for advanced graduate students and professionals.

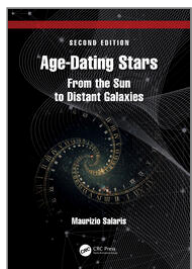
River Publishers
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2ND EDITION

Age-Dating Stars

From the Sun to Distant Galaxies



Maurizio Salaris Liverpool John Moores University

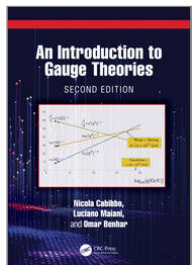
Describes in a simple, yet rigorous, manner the vast array of techniques that have been developed and are currently being used to determine the ages of stars. It also explores how stellar ages inform our knowledge about planets, star clusters, galaxies, even distant galaxies that we cannot resolve into individual stars.

CRC Press
April 2026 : 248pp
Pb: 978-1-041-12836-6 : **\$64.99**
Hb: 978-1-041-13238-7 : **\$140**

* For full contents and more information, visit: www.routledge.com/9781041128366

2ND EDITION

An Introduction to Gauge Theories



Nicola Cabibbo University of Rome, La Sapienza, Italy,
Luciano Maiani University of Rome, La Sapienza, Italy,
Omar Benhar INFN, Roma, Italy

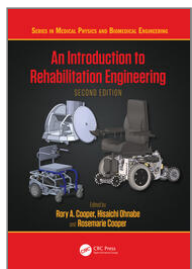
Written by world-leading experts in particle physics, this new book from Luciano Maiani and Omar Benhar, with contributions from the late Nicola Cabibbo, is based on Feynman's path integral formulation of quantum field theory. Key elements of gauge theories are described—Feynman diagrams, gauge-fixing, Faddeev-Popov ghosts—as well as renormalisation in Quantum Electrodynamics.

CRC Press
December 2025 : 290pp
Hb: 978-1-032-88322-9 : **\$99.99**
eBook: 978-1-003-56070-8

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2ND EDITION

An Introduction to Rehabilitation Engineering



Edited by **Rory A. Cooper**, **Hisaichi Ohnabe**, **Rosemarie Cooper**

Series: Series in Medical Physics and Biomedical Engineering

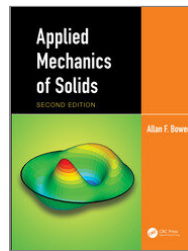
Introduction to Rehabilitation Engineering, Second Edition offers a concise yet thorough foundation in a critical and rapidly evolving field—inviting further exploration, innovation, and impact. These features make the book a valuable resource for students, practitioners, and anyone interested in the field of rehabilitation engineering.

CRC Press
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2ND EDITION

Applied Mechanics of Solids



Allan F. Bower Brown University, Providence, Rhode Island, USA

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CRC Press
November 2025 : 774pp
Hb: 978-1-041-01995-4 : **\$120**
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Applied Mechanics of Solids - 2 VOL SET



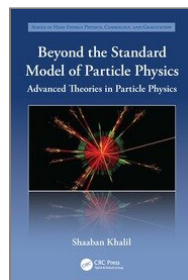
Allan F. Bower Brown University, Providence, Rhode Island, USA

The second edition of Applied Mechanics of Solids provides a concise description of all the concepts needed to predict how solid materials deform and fail under stress. With its companion volume of solved example problems, it is an invaluable class textbook or reference for personal study or review. Solved Problems in Mechanics of Solids offers a large number of example problems that are designed to help students and practicing engineers learn to predict stresses and deformation in solids that are subjected to mechanical or thermal loading.

CRC Press
April 2026 : 1274pp
Hb: 978-1-041-23720-4 : **\$190**

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Beyond the Standard Model of Particle Physics



Shaaban Khalil

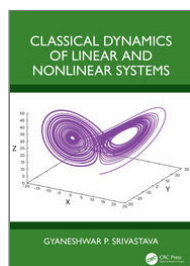
Series: Series in Particle Physics, Cosmology and Gravitation

Beyond the Standard Model: Advanced Theories in Particle Physics provides a comprehensive overview of the current state of research in the field, as well as the theories and models that are being developed to explain the unexplained phenomena in the universe. It also discusses the experiments and observations that are being conducted to test these theories, and the potential implications for our understanding of the universe.

CRC Press
February 2026 : 302pp
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Classical Dynamics of Linear and Nonlinear Systems



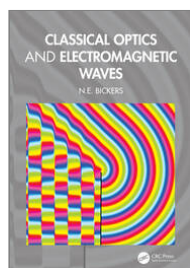
Gyaneshwar P. Srivastava

Classical Dynamics of Linear and Nonlinear Systems offers a comprehensive exploration of dynamical systems from fundamental principles to advanced applications. This textbook presents a unified treatment of classical dynamics, bridging the gap between linear and nonlinear systems while providing both theoretical foundations and practical applications. The book transforms abstract theoretical concepts into practical understanding through rigorous mathematical and numerical frameworks and illuminating examples, making it ideally suited for advanced undergraduate and postgraduate students enrolled on physics, applied mathematics, engineering and materials science courses.

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December 2025 : 326pp
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Classical Optics and Electromagnetic Waves



N.E. Bickers

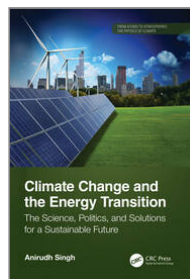
Classical Optics and Electromagnetic Waves offers an exploration of optics, the physics subfield examining light's properties and applications. Beginning with the mathematical foundations of electromagnetic waves in matter, the text develops geometric optics as the short-wavelength limit of Maxwell's Equations, establishing a framework for understanding wavefronts, light rays, and intensity variations. The work progresses methodically through image formation using mirrors and lenses in the paraxial approximation, employing transfer matrices for precise calculations.

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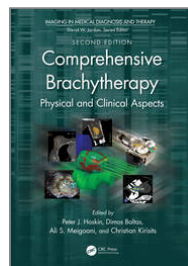
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Concepts of Engineering Physics



Kumari Mamta , Raj Kumar Singh

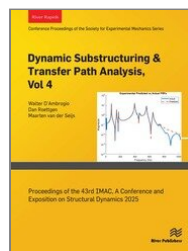
Concepts of Engineering Physics offers readers an engaging and accessible reading to the Engineering Physics syllabus as per Indian National Education Policy 2020, and approved by the All India Council for Technical Education. The book demystifies and simplifies the complex concepts of Wave Optics, Lasers, Quantum Mechanics, Vector calculus, Electrostatics, Magnetostatics, Electromagnetic waves, Semiconductor and Electronic materials through relatable analogies and applications. This textbook caters to need of undergraduate students studying Physics as major and/or minor paper in the FYUGP of the Indian Universities and colleges.

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April 2026 : 464pp
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Dynamic Substructuring & Transfer Path Analysis, Vol. 4

Proceedings of the 43rd IMAC, A Conference and Exposition on Structural Dynamics 2025



Edited by **Walter D'Ambrogio , Dan Roettgen , Maarten van der Seijs**

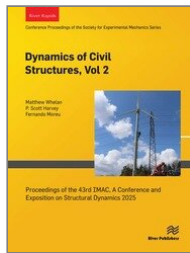
Dynamic Substructuring & Transfer Path Analysis, Volume 4: Proceedings of the 43rd IMAC, A Conference and Exposition on Structural Dynamics, 2025, the fourth volume of twelve from the Conference brings together contributions to this important area of research and engineering. The collection presents early findings and case studies on fundamental and applied aspects of the dynamics of coupled structures.

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Dynamics of Civil Structures, Vol. 2

Proceedings of the 43rd IMAC, A Conference and Exposition on Structural Dynamics 2025



Edited by **Matthew Whelan , P. Scott Harvey , Fernando Moreu**

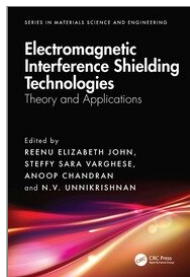
Dynamics of Civil Structures, Volume 2: Proceedings of the 43rd IMAC, A Conference and Exposition on Structural Dynamics, 2025, the second volume of twelve from the Conference brings together contributions to this important area of research and engineering. The collection presents early findings and case studies on fundamental and applied aspects of the Dynamics of Civil Structures.

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Electromagnetic Interference Shielding Technologies

Theory and Applications



Edited by **Reenu Elizabeth John , Steffy Sara Varghese , Anoop Chandran , N. V. Unnikrishnan**

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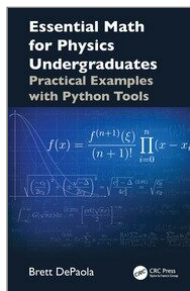
This book offers a comprehensive evaluation of recent advancements in materials and technologies utilised for electromagnetic interference (EMI) shielding. In addition to discussing the synthesis and characterization of different EMI shielding materials, it examines the current progress, constraints and resolutions in EMI shielding strategies across various sectors including space, defence, electronics and medical. It is aimed at scientists and researchers working on satellite development, electronic warfare systems, future automobile systems, medical device production and electronic devices. Engineers and postgraduate students would benefit from the incorporation of theory.

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Essential Math for Physics Undergraduates

Practical Examples with Python Tools



David D. DePaola

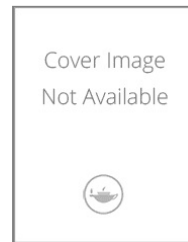
Essential Math for Physics Undergraduates: Practical Examples with Python Tools covers basic applied Math and entry-level programming. A gap often exists in the Physics student's Math curriculum, between the Math taught by the Math departments and the Math taught either in a "Math Methods" or advanced Physics courses, such as introduction to quantum mechanics, classical mechanics, thermal and statistical physics, and electromagnetic theory. This text plugs that gap and provides the new Physics student with the necessary tools to succeed in their Physics curriculum.

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Extended Equations for Particles

Spin, General Theory and Exact Solution



Alina V. Ivashkevich , Elena M. Ovsiyuk , Anton V. Bury , Aleksander V. Chichurin , Vasily V. Kisel , Viktor M. Red'kov

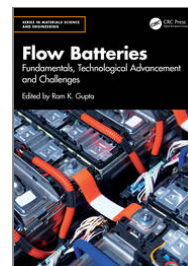
Extended Equations for Particles: Spin, General Theory and Exact Solution presents a unified theoretical framework for understanding relativistic wave equations describing particles with spins $S = 0, 1/2, 1$ and additional internal electromagnetic structure. Through mathematical analysis and physical interpretation, the book bridges fundamental concepts across quantum field theory, relativistic quantum mechanics, and electromagnetic theory. The text introduces methodologies for developing new relativistic systems of equations that describe particles with electromagnetic characteristics beyond electric charge.

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Flow Batteries

Fundamentals, Technological Advancement and Challenges



Edited by **Ram K. Gupta**

Series: *Series in Materials Science and Engineering*

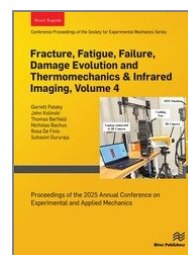
Flow Batteries presents a comprehensive examination of this critical energy storage technology at the forefront of renewable energy integration. Compiling all the major topics in one book, chapters are authored by experts in energy areas, providing state-of-the-art information about flow batteries, their challenges, and applications. This is a timely resource for students studying materials science, as well as for researchers working in the green energy, materials, and nanotechnology industries.

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Fracture, Fatigue, Failure, Damage Evolution and Thermomechanics & Infrared Imaging, Volume 4

Proceedings of the 2025 Annual Conference on Experimental and Applied Mechanics



Edited by **Garrett Pataky , John Kolinski , Thomas Berfield , Nicholas Bachus , Rosa De Finis , Suhasini Gururaja**

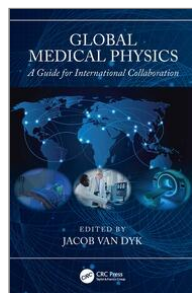
Fracture, Fatigue, Failure, Damage Evolution and Thermomechanics & Infrared Imaging, Volume 4 of the Proceedings of the 2025 SEM Annual Conference & Exposition on Experimental and Applied Mechanics, the fourth volume of five from the Conference, brings together contributions to this important area of research and engineering.

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A Guide for International Collaboration



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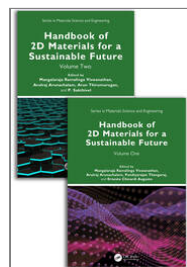
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Handbook of 2D Materials for a Sustainable Future

Two Volume Set



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Volume One provides a panoramic view of the vibrant and multidisciplinary field of 2D materials. It includes content on recent advances in graphene, gas sensing, optoelectronic and photonic devices, electrochemical sensors, and energy applications. It also provides a thorough exploration of MXenes. Volume Two provides a comprehensive exploration of the evolution, properties, and applications of 2D materials. Beginning with the historical and scientific background, it looks at the diverse functionalities of graphene, such as its role in biosensors and energy storage. It expands to other 2D materials like transition metal diselenides for solar cells, MXenes, and fullerene.

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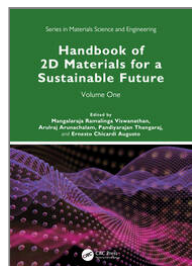
December 2025 : 760pp

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Handbook of 2D Materials for a Sustainable Future

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CRC Press

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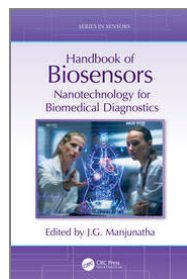
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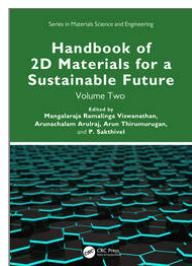
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Series: *Series in Materials Science and Engineering*

2D Materials for a Sustainable Future reviews a cutting-edge area of materials science with enormous potential for a wide range of applications. It provides readers with a comprehensive understanding of the recent advancements of 2D materials alongside their functional modifications and practical applications, with a forward-looking view on sustainable and scalable technologies. This book is intended for the researchers, graduate students, and professionals in materials science, nanotechnology, chemical engineering, and applied physics. It serves as both a reference for experienced scientists and a foundational guide for those new to the field.

CRC Press

December 2025 : 462pp

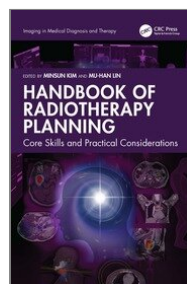
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2ND EDITION

Handbook of Visual Optics, Volume Two

Instrumentation and Vision Correction



Edited by **Pablo Artal**

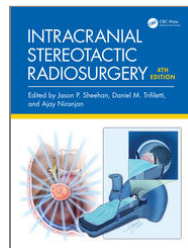
This new edition of the Handbook of Visual Optics, Volume Two, presents an authoritative survey of modern ophthalmic instrumentation, vision-correction technologies, and the optical foundations of visual performance. Building upon the theoretical framework established in Volume One, it explores the science and technology of advanced imaging systems, laser-based diagnostics, adaptive-optics platforms, and surgical and corrective devices, that have transformed clinical practice over the past decade. It integrates contributions from leading experts across optics, engineering, and vision science.

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4TH EDITION

Intracranial Stereotactic Radiosurgery



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CRC Press
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Hb: 978-1-041-09281-0 : \$170

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Introduction to Plasma Physics with Fusion Energy



Bahman Zohuri, **Seyed Kamal Mousavi Balgehshiri**

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Mathematical Theory of Quantum Teleportation Protocols

An Introduction for Scientists and Engineers



Binayak S. Choudhury, **Soumen Samanta**

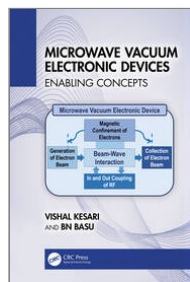
This book provides an in-depth exploration of the mathematical and theoretical foundations of quantum teleportation. Starting with the seminal 1993 work by C. H. Bennett and colleagues, this book delves into the intricate processes that enable the transfer of quantum information using non-local quantum entangled resources.

Chapman & Hall
March 2026 : 234pp
Hb: 978-1-032-91113-7 : \$190

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Microwave Vacuum Electronic Devices

Enabling Concepts



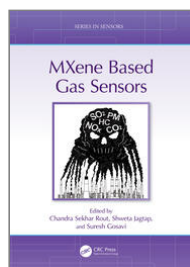
Vishal Kesari , BN Basu

Microwave Vacuum Electronic Devices (VEDs) encompasses VEDs operating in the microwave to terahertz frequency regime. The book aims to equip students, teachers, scientists, and engineers with an understanding of the concepts and physical principles underpinning VEDs. VEDs have manifold applications for technologies used in the defence, civilian, medical, scientific, and industrial sectors. The authors build confidence among the readers seeking to design and develop VEDs in these sectors by presenting the enabling concepts and step-by-step guides to the mathematical formulations used in VEDs in the microwave, millimeter-wave and terahertz frequency range.

CRC Press
November 2025 : 476pp
Hb: 978-1-032-98248-9 : \$220
eBook: 978-1-003-60131-9

* For full contents and more information, visit: www.routledge.com/9781032982489

MXene Based Gas Sensors



Edited by **Chandra Sekhar Rout , Shweta Jagtap , Suresh Gosavi**

Series: Series in Sensors

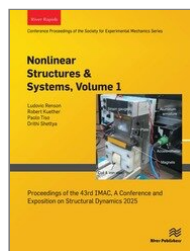
MXene-based Gas Sensors represents a significant contribution to the field, encompassing the latest theoretical and experimental investigations. It meticulously covers the classification of MXenes, their fundamental properties and synthesis approaches, providing an important resource for researchers and students. It further includes theoretical perspectives and in-depth insights into the gas sensing mechanisms of MXene-based sensors, along with a comprehensive classification of gas sensor devices, fabrication techniques, and evaluation parameters, filling a significant gap in the literature.

CRC Press
December 2025 : 250pp
Hb: 978-1-032-85282-9 : \$220

* For full contents and more information, visit: www.routledge.com/9781032852829

Nonlinear Structures & Systems, Vol. 1

Proceedings of the 43rd IMAC, A Conference and Exposition on Structural Dynamics 2025



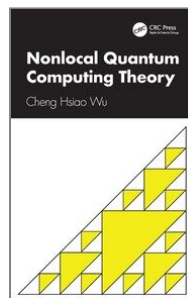
Edited by **Ludovic Renson , Robert Kuether , Paolo Tiso , Drithi Shetty**

Nonlinear Structures & Systems, Volume 1: Proceedings of the 43rd IMAC, A Conference and Exposition on Structural Dynamics, 2025, the first volume of twelve from the Conference, brings together contributions to this important area of research and engineering. The collection presents early findings and case studies on fundamental and applied aspects of Nonlinear Dynamics.

River Publishers
January 2026 : 188pp
Hb: 978-8-743-80146-7 : \$130

* For full contents and more information, visit: www.routledge.com/9788743801467

Nonlocal Quantum Computing Theory



Cheng Hsiao Wu

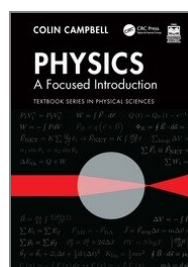
Provides beginners with a comprehensive overview of the fundamentals of quantum computing theory from a non-local computation point of view.

CRC Press
December 2025 : 118pp
Hb: 978-1-032-89265-8 : \$220

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Physics

A Focused Introduction



Colin Campbell

Series: Textbook Series in Physical Sciences

Physics: A Focused Introduction provides a thorough introduction to the principles and practical applications of introductory undergraduate physics. Featuring a streamlined narrative, it encourages active engagement between fundamental concepts and fully worked examples. Major topics such as motion (kinematics, forces, and conservation of momentum and energy), thermodynamics, waves, optics, electricity and magnetism are covered, in addition to the foundations of modern physics. This textbook is suitable for students of science and engineering who require a concise introduction to the field, as well as students of both algebra-based and calculus-based courses.

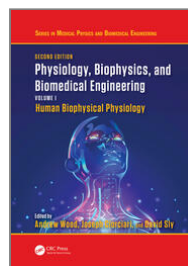
CRC Press
November 2025 : 732pp
Pb: 978-1-032-94588-0 : \$82.99
Hb: 978-1-032-94587-3 : \$240
eBook: 978-1-003-57156-8

* For full contents and more information, visit: www.routledge.com/9781032945880

2ND EDITION

Physiology, Biophysics, and Biomedical Engineering, Volume I

Human Biophysical Physiology



Edited by **Andrew Wood** Swinburne University of Technology, Australia, **Joseph Ciorciari** , **David Sly**

Series: Series in Medical Physics and Biomedical Engineering

Fully updated throughout, this second edition of Physiology, Biophysics and Biomedical Engineering provides a multidisciplinary understanding of biological phenomena and the instrumentation for monitoring these phenomena. Now split into two volumes, it provides a comprehensive introduction for undergraduate courses emphasising the application of the physical sciences to human physiology in a medical context. Volume 1 tackles human biophysical physiology, whilst volume 2 explores biomedical engineering and instrumentation.

CRC Press
February 2026 : 352pp
Hb: 978-0-367-56767-5 : \$240

* For full contents and more information, visit: www.routledge.com/9780367567675

3RD EDITION

Plasma Electronics

Applications in Microelectronic Device Fabrication



Toshiaki Makabe Keio University, Minato-ku, Tokyo, Japan, **Zoran Lj. Petrović** University of Belgrade, Zemun, Serbia

Plasma Electronics: Applications in Microelectronic Device Fabrication, Third Edition, explains the fundamental physics and numerical methods essential for advancing these technologies from laboratory research to manufacturing-scale modeling and design of plasma sources and processes. This comprehensive resource has established itself as the standard reference for scientists, engineers, and graduate students working with weakly ionized, non-equilibrium plasmas.

CRC Press

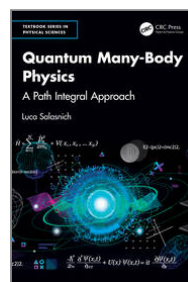
May 2026 : 444pp

Hb: 978-1-041-19223-7 : \$150

* For full contents and more information, visit: www.routledge.com/9781041192237

Quantum Many-Body Physics

A Path Integral Approach



Luca Salasnich

Series: Textbook Series in Physical Sciences

Quantum Many-Body Physics: A Path Integral Approach offers a fresh perspective on quantum phenomena in condensed matter physics. This comprehensive first edition provides a powerful and versatile framework for understanding complex problems in systems such as ultracold atoms, superfluids, and superconductors. Designed for graduate students in physics and related disciplines, this book serves as an essential resource for those aiming to advance their studies in quantum mechanics. Researchers in condensed matter physics, quantum optics, and quantum information will also find valuable insights to support their work on the next breakthroughs in the field.

CRC Press

November 2025 : 294pp

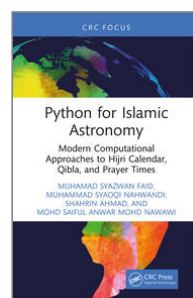
Hb: 978-1-032-96134-7 : \$120

eBook: 978-1-003-58833-7

* For full contents and more information, visit: www.routledge.com/9781032961347

Python for Islamic Astronomy

Modern Computational Approaches to Hijri Calendar, Qibla, and Prayer Times



Muhamad Syazwan Bin Faid, **Muhammad Syaooqi Nahwandi**, **Shahrin Ahmad**, **Mohd Saiful Anwar Mohd Nawawi**

Python for Islamic Astronomy: Modern Computational Approaches to Hijri Calendar, Qibla, and Prayer Times responds to the urgent need to improve calculation accuracy and data visualizations in the field of Islamic Astronomy. This field is becoming increasingly complex, leading to mistakes in determining the beginning of the Hijri month, Qibla directions and prayer times. This book offers a more precise approach by showing how the Python environment can be tailored for astronomical computations and how the mathematical principles behind Qiblah determination can be implemented through elegant Python algorithms.

CRC Press

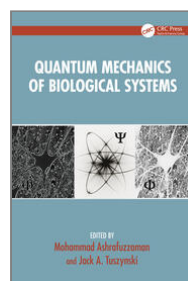
November 2025 : 208pp

Hb: 978-1-041-08261-3 : \$69.99

eBook: 978-1-003-64912-0

* For full contents and more information, visit: www.routledge.com/9781041082613

Quantum Mechanics of Biological Systems



Edited by **Mohammad Ashrafuzzaman**, **Jack A. Tuszynski**

Quantum Mechanics of Biological Systems is a growing field of biology in which quantum mechanics principles are utilized to address key biological processes. Beginning with a brief history of quantum biology, this book explores some of the ways in which quantum mechanics methods have made huge breakthroughs in addressing the molecular basis of diseases and drug discovery. Included in the book are chapters on the role of neutron scattering in protein energy landscapes, modelling of photosynthetic spectra, quantum processes of life in addition to quantum and tempus theories of food science.

CRC Press

November 2025 : 242pp

Hb: 978-1-032-59295-4 : \$220

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Quantum Computing for Multimedia Processing, Teleportation, and Secure Networks



Edited by **Ahmed A. Abd El-Latif** EIAS Data Science Lab, College of Computer and Information Sciences, Prince Sultan University, Riyadh, Saudi Arabia, **Abdallah Slaoui**, **Xianhua Song**

Series: CRC Press Series on Quantum Information Processing and Computing

Quantum Computing for Multimedia Processing, Teleportation, and Secure Networks offers a comprehensive exploration of quantum-enhanced technologies across multimedia, communication, and cryptography. Bridging foundational theory with cutting-edge applications, this book systematically addresses how quantum computing transforms classical approaches to data representation, transmission, and security. By leveraging the unique properties of quantum mechanics—such as superposition, entanglement, and no-cloning—this work provides scalable solutions to challenges in computational complexity, secure transmission, and robust multimedia systems.

CRC Press

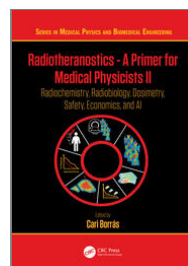
April 2026 : 320pp

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Radiotheranostics - A Primer for Medical Physicists II

Radiochemistry, Radiobiology, Dosimetry, Safety, Economics, and AI

Edited by **Cari Borrás**

Series: Series in Medical Physics and Biomedical Engineering

Radiotheranostics: A Primer for Medical Physicists II: Radiation Chemistry, Radiation Biology, Dosimetry, Safety, Economics, and Artificial Intelligence offers in-depth coverage of radiopharmaceutical preparation and radiolabeling strategies. It presents new insights into radiation biology, including studies on human and animal radiation embryology. The dosimetry section addresses alpha-, beta-, and Auger-emitting radionuclides and explores the therapeutic potential of positrons. It emphasizes biokinetic modeling, standardized and image-based dosimetry procedures, and the quantification of uncertainties in dose calculations.

CRC Press

January 2027 : 276pp

Pb: 978-1-032-66840-6 : \$64.99

Hb: 978-1-032-65970-1 : \$250

eBook: 978-1-032-66841-3

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Radiotheranostics Two Volume Set



Edited by **Cari Borrás**, **Michael G. Stabin**

Series: *Series in Medical Physics and Biomedical Engineering*

Setting the framework, the first volume defines radiotheranostics and describes the history of radionuclide therapy and theranostics, and the biology of cancer. The second volume expands upon the radiotheranostic topics in cancer care covered in Volume I, offering in-depth coverage of radiopharmaceutical preparation and radiolabeling strategies. It presents new insights into radiation biology, including studies on human and animal radiation embryology.

CRC Press
November 2025 : 480pp
Hb: 978-1-041-14308-6 : \$425

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Semiconductors and Nanostructures

An Introduction



Rui César Vilão

Series: *Textbook Series in Physical Sciences*

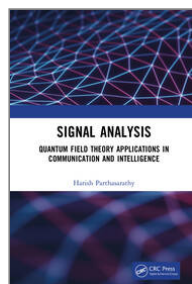
Semiconductors and Nanostructures: An Introduction provides a rigorous yet accessible introduction to semiconductor physics. Bridging the gap between introductory quantum mechanics and advanced semiconductor courses, it offers a compact yet comprehensive overview that empowers students to understand and engage with both fundamental concepts and real-world applications. This textbook is an indispensable resource for undergraduate and graduate students in physics and engineering, particularly those preparing for advanced studies or careers in semiconductor technology. It is a practical, pedagogically refined resource for both coursework and self-study.

CRC Press
March 2026 : 150pp
Hb: 978-1-032-96051-7 : \$120

* For full contents and more information, visit: www.routledge.com/9781032960517

Signal Analysis

Quantum Field Theory Applications in Communication and Intelligence



Harish Parthasarathy

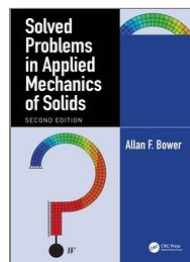
This book connects quantum mechanics with computational applications, covering probability density functions, quantum field theories, stochastic calculus, algebraic geometry, and image processing applications. Suitable for graduate courses in physics and computational science. This title has been co-published with Manakin Press. Taylor & Francis does not sell or distribute the print edition in India, Pakistan, Nepal, Bhutan, Sri Lanka and Bangladesh.

CRC Press
January 2026 : 266pp
Hb: 978-1-041-20686-6 : \$140

* For full contents and more information, visit: www.routledge.com/9781041206866

2ND EDITION

Solved Problems in Applied Mechanics of Solids



Allan F. Bower Brown University, Providence, Rhode Island, USA

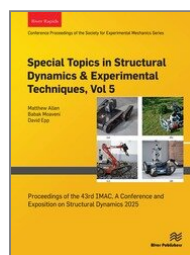
Solved Problems in Applied Mechanics of Solids offers a large number of example problems that are designed to help students and practicing engineers learn to predict stresses and deformation in solids that are subjected to mechanical or thermal loading. The book will also be useful for instructors who are looking for worked examples to use in lectures or assignments. The book is intended to be used as a companion volume to A.F. Bower's "Applied Mechanics of Solids," 2nd ed. CRC press, Boca Raton FL (2025). The chapter headings and sub-sections are identical in both volumes, and every topic covered in the main text has a set of relevant worked examples in this book.

CRC Press
April 2026 : 500pp
Pb: 978-1-041-23719-8 : \$37.99
Hb: 978-1-041-23717-4 : \$130

* For full contents and more information, visit: www.routledge.com/9781041237198

Special Topics in Structural Dynamics & Experimental Techniques, Vol. 5

Proceedings of the 43rd IMAC, A Conference and Exposition on Structural Dynamics 2025



Edited by **Matthew Allen**, **Babak Moaveni**, **David Epp**

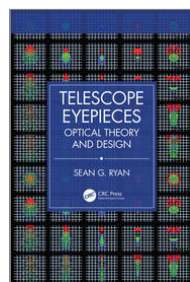
Special Topics in Structural Dynamics & Experimental Techniques, Volume 5: Proceedings of the 43rd IMAC, A Conference and Exposition on Structural Dynamics, 2025, the fifth volume of twelve from the Conference brings together contributions to this important area of research and engineering. The collection presents early findings and case studies on fundamental and applied aspects of Structural Dynamics.

River Publishers
January 2026 : 158pp
Hb: 978-8-743-80150-4 : \$130

* For full contents and more information, visit: www.routledge.com/9788743801504

Telescope Eyepieces

Optical Theory and Design



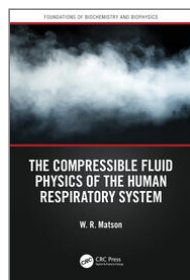
Sean G. Ryan

Telescope Eyepieces: Optical Theory and Design explores the wide range of eyepiece designs. It introduces optics theory progressively to build understanding of how lenses control light in an optical system generally and in eyepieces specifically, linking optics fundamentals, design evolution and the implications for image quality. The book presents a logical narrative starting with Snell's law of refraction at a flat surface, progressing to paraxial and real rays at spherical and aspherical surfaces, lenses and thin-lens systems. It demystifies the origin of aberrations by considering wavefront deviations, all brought to life in the context of the familiar eyepiece.

CRC Press
November 2025 : 222pp
Pb: 978-1-041-13254-7 : \$56.99
Hb: 978-1-041-13587-6 : \$170

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The Compressible Fluid Physics of the Human Respiratory System



W. R. Matson

Series: Foundations of Biochemistry and Biophysics

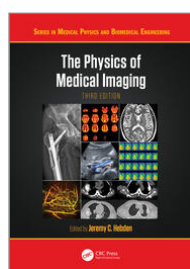
Aims to provide a comprehensive exploration of the principles of fluid dynamics, classical mechanics, and their applications to complex systems such as human respiration.

CRC Press
January 2026 : 148pp
Pb: 978-1-041-16234-6 : \$66.99
Hb: 978-1-041-03124-6 : \$100
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3RD EDITION

The Physics of Medical Imaging



Edited by **Jeremy C. Hebden**

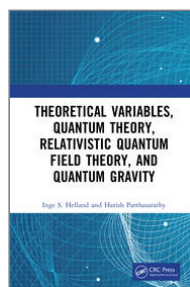
Series: Series in Medical Physics and Biomedical Engineering

This third edition provides completely new and comprehensive descriptions of the physical principles and concepts which underpin all the medical imaging technologies found in modern hospitals, including x-ray imaging, magnetic resonance imaging, nuclear medicine imaging, and ultrasound.

CRC Press
April 2026 : 448pp
Pb: 978-0-367-90420-3 : \$99
Hb: 978-0-367-45962-8 : \$250

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Theoretical Variables, Quantum Theory, Relativistic Quantum Field Theory, and Quantum Gravity



Inge S. Helland , Harish Parthasarathy

This book presents quantum theory through theoretical variables, progressing from fundamental principles to applications in quantum field theory and gravity. It provides rigorous mathematical frameworks connecting theoretical physics with engineering applications. Suitable for graduate students and researchers in physics, mathematics, and engineering studying quantum phenomena. This title has been co-published with Manakin Press. Taylor & Francis does not sell or distribute the print edition in India, Pakistan, Nepal, Bhutan, Sri Lanka and Bangladesh.

CRC Press
January 2026 : 290pp
Hb: 978-1-041-20693-4 : \$220
eBook: 978-1-003-72647-0

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Thermoelectric Half-Heusler Alloys and Fe₂VAl



Ctirad Uher University of Michigan, Ann Arbor, USA

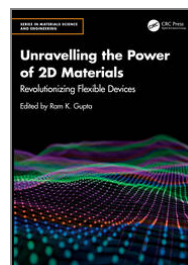
Thermoelectric Half-Heusler Alloys and Fe₂VAl outlines the key properties an efficient thermoelectric material should have, covers the structural aspects of Heusler and half-Heusler compounds, and discusses in detail the thermoelectric properties of various families of half-Heusler compounds, including the fabrication and performance of thermoelectric modules based on these compounds. This reference monograph is of interest to everyone working or interested in the field of thermoelectricity as well as graduate students, postdocs, and researchers in the broad field of Heusler and half-Heusler compounds.

CRC Press
March 2026 : 464pp
Hb: 978-1-041-06735-1 : \$250

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Unravelling the Power of 2D Materials

Revolutionizing Flexible Devices



Edited by **Ram K. Gupta** Pittsburg State Univ

Series: Series in Materials Science and Engineering

Exploring the properties of 2D materials has become a focal point in the realm of flexible devices, driven by their exceptional optical, electrical, thermal, and mechanical characteristics. From electronics to sensors, these materials are transforming industries with their diverse applications. Topics include fundamentals, manufacturing and challenges, biomedical applications, and flexible photovoltaics. It covers state-of-the-art development in 2D materials and their emerging applications in flexible devices, diving into atomic-level reactions and structure-performance relationships to offer a more thorough understanding of the field.

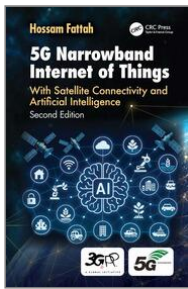
CRC Press
February 2026 : 500pp
Hb: 978-1-032-90061-2 : \$250

* For full contents and more information, visit: www.routledge.com/9781032900612

2ND EDITION

5G Narrowband Internet of Things

With Satellite Connectivity and Artificial Intelligence



Hossam Fattah

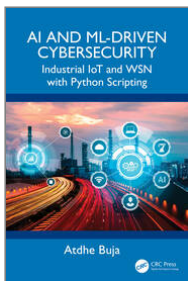
Broadband wireless communication has transformed dramatically, leading to advanced technologies like 5G. 5G Narrowband Internet of Things: With Satellite Connectivity and Artificial Intelligence focuses on one crucial aspect of 5G – Narrowband Internet of Things (NB-IoT). Since the first edition in 2019, NB-IoT has evolved with new features introduced in 3GPP Releases 15–18. This edition explores its architecture, protocol stack, and latest enhancements, including satellite connectivity, AI/ML integration, and cloud-based infrastructure. Designed as an accessible reference, it simplifies complex concepts while providing valuable insights into this growing technology.

CRC Press
November 2025 : 358pp
Hb: 978-1-041-02087-5 : \$140
eBook: 978-1-003-61373-2

* For full contents and more information, visit: www.routledge.com/9781041020875

AI and ML-Driven Cybersecurity

Industrial IoT and WSN with Python Scripting



Atdhe Buja

This book provides a hands-on, research-driven guide to building, deploying, and understanding machine learning models tailored for securing IIoT and WSN environments.

CRC Press
November 2025 : 140pp
Pb: 978-1-041-05141-1 : \$59.99
Hb: 978-1-041-05039-1 : \$140
eBook: 978-1-003-63151-4

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An Integrated Approach to Innovation Management

A Corporate Social Responsibility Perspective



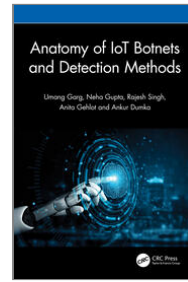
Judyta Kabus , Radosław Wolniak , Andrzej Brzeziński , Angelika Brzozowska

An Integrated Approach to Innovation Management: A Corporate Social Responsibility Perspective focuses on product innovation management in the FMCG sector, particularly disruptive innovation—one of today's most significant management concepts valued for its practical business relevance. It examines the relationship between customer purchasing behavior and product innovation management, analyzing consumer attitudes toward food product innovations and identifying factors that influence acceptance or resistance to breakthrough innovations.

Routledge
February 2026 : 206pp
Hb: 978-1-032-87243-8 : \$140

* For full contents and more information, visit: www.routledge.com/9781032872438

Anatomy of IoT Botnets and Detection Methods



Umang Garg , Neha Gupta , Rajesh Singh , Anita Gehlot , Ankur Dumka

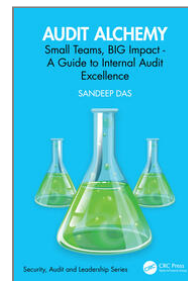
The book Anatomy of IoT Botnets and Detection Methods delves into the evolving landscape of cybersecurity threats associated with the Internet of Things (IoT), specifically focusing on the anatomy, behavior, and detection of IoT-based botnets. As IoT devices proliferate in both consumer and industrial settings, their inherent vulnerabilities—such as weak authentication, limited processing power, and lack of regular updates—make them prime targets for attackers.

CRC Press
November 2025 : 230pp
Pb: 978-1-041-05135-0 : \$59.99
Hb: 978-1-041-05022-3 : \$140
eBook: 978-1-003-63146-0

* For full contents and more information, visit: www.routledge.com/9781041051350

Audit Alchemy

Small Teams, BIG Impact - A Guide to Internal Audit Excellence



Sandeep Das

Series: Security, Audit and Leadership Series

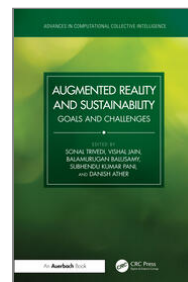
When high expectations do not always match the resources at your disposal, how can small Internal Audit teams make a significant impact? This book is your essential guide to transforming the way you approach internal auditing. Professionals that lead, or work in, small teams in Risk, Compliance, Information Security and Quality across all sectors will also find this book especially relevant. This book provides tools, techniques and inspiration starting from establishing a solid foundation to leveraging technology, building strong governance, utilising third-party support, and systemising your processes for consistency.

CRC Press
February 2026 : 136pp
Pb: 978-1-032-85652-0 : \$59.99
Hb: 978-1-032-84235-6 : \$140

* For full contents and more information, visit: www.routledge.com/9781032856520

Augmented Reality and Sustainability

Goals and Challenges



Edited by **Sonal Trivedi , Vishal Jain** Sharda University, Greater Noida, India, **Balamurugan Balusamy** Shiv Nadar Uni., **Subhendu Kumar Pani** Biju Patnaik University of Technology, **Danish Ather**

Series: Advances in Computational Collective Intelligence

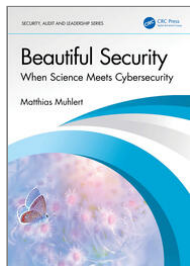
This book examines the transformative impact that augmented reality (AR) has in reshaping approaches to sustainability. Starting with an overview that lays the groundwork in AR and sustainability, the book presents analyses of applications, challenges, and future trajectories. A comprehensive guide for academics and professionals, the book navigates this dynamic landscape where cutting-edge technology meets the imperative of environmental responsibility. Filled with case studies and expert interviews, the book provides tangible examples and insights from the forefront of integrating AR and sustainability.

Auerbach Publications
December 2025 : 306pp
Pb: 978-1-032-95343-4 : \$64.99
Hb: 978-1-032-95147-8 : \$200
eBook: 978-1-003-58443-8

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When Science Meets Cybersecurity



Matthias Muhlert

Series: Security, Audit and Leadership Series

Transform your approach to digital defence by discovering the profound beauty in scientific principles that govern modern security. In an era where cyber threats evolve exponentially while defenses lag behind, we need more than incremental improvements—we need a paradigm shift. Through three complementary perspectives—Science Educator, Beauty Admirer, and Security Nerd—each concept comes alive with clarity, aesthetic appreciation, and practical implementation. Real-world scenarios demonstrate how a security analyst discovered fractal patterns that exposed an advanced persistent threat.

CRC Press
February 2026 : 264pp
Pb: 978-1-041-09534-7 : **\$59.99**
Hb: 978-1-041-09533-0 : **\$140**

* For full contents and more information, visit: www.routledge.com/9781041095347

Beyond The Invisible Nexus

Dark Web, Dark AI and Offensive Security



Akashdeep Bhardwaj University of Petroleum and Energy Studies, **Saksham Garg**

This book is an in-depth exploration of the mysterious and complex realm of the Dark Web, Dark AI Tools and offensive security use cases offering readers a comprehensive understanding of its history, structure, and the illicit activities that transpire within its hidden corridors using the Dark web-AI-Offensive tactics. This book serves as a guide for both the curious reader and professionals in the fields of cybersecurity, law enforcement, and digital forensics. This book is intended for a diverse audience with interests and expertise in various fields as well.

CRC Press
March 2026 : 272pp
Pb: 978-1-032-88677-0 : **\$59.99**
Hb: 978-1-032-82353-9 : **\$140**

* For full contents and more information, visit: www.routledge.com/9781032886770

Business Transformation and Digital Innovation in the Service Sector



Edited by **Pankaj Kumar Tyagi**, **Ajit Kumar Singh**, **Keshav Kaushik** UPES, Dehradun, India, **Vipin Nadda**

This book explores digital innovation in the service sector and its potential for driving business transformation. It provides a technical examination of the various ways in which digital technologies are revolutionizing service-oriented industries and offers practical insights and strategies for organizations looking to leverage these advancements. By examining case studies, industry trends, and emerging technologies, this book equips business leaders, managers, and professionals with the knowledge and tools they need to navigate the digital landscape and achieve sustainable success in the service sector.

Auerbach Publications
November 2025 : 304pp
Hb: 978-1-032-76414-6 : **\$200**
eBook: 978-1-003-48559-9

* For full contents and more information, visit: www.routledge.com/9781032764146

Crypto Engine Design



Wen-Long Chin

Series: Cyber Shorts

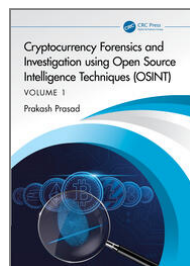
A deep dive into cryptographic hardware architectures, providing a structured approach to secure computing. This book examines the design, optimization, and implementation of crypto engines, ensuring efficiency and robustness in encryption and hashing mechanisms.

CRC Press
December 2025 : 120pp
Pb: 978-1-041-09527-9 : **\$66.99**
Hb: 978-1-041-09526-2 : **\$150**
eBook: 978-1-003-65055-3

* For full contents and more information, visit: www.routledge.com/9781041095279

Cryptocurrency Forensics and Investigation using Open Source Intelligence Techniques (OSINT)

Volume I



Prakash Prasad

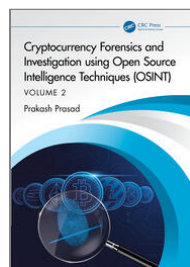
Cryptocurrency Forensics and Investigation Using Open Source Tools and Techniques is a two-volume series that was written for such reason. It is intended to be a useful, hands-on resource for people who wish to learn about and research bitcoin activity using openly accessible tools.

CRC Press
February 2026 : 336pp
Pb: 978-1-032-30462-5 : **\$59.95**
Hb: 978-1-032-30460-1 : **\$140**

* For full contents and more information, visit: www.routledge.com/9781032304625

Cryptocurrency Forensics and Investigation using Open Source Intelligence Techniques (OSINT)

Volume II



Prakash Prasad

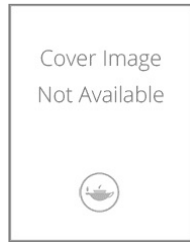
Cryptocurrency Forensics and Investigation Using Open Source Tools and Techniques is a two-volume series that was written for such reason. It is intended to be a useful, hands-on resource for people who wish to learn about and research bitcoin activity using openly accessible tools.

CRC Press
March 2026 : 248pp
Pb: 978-1-041-14247-8 : **\$59.95**
Hb: 978-1-041-14246-1 : **\$140**

* For full contents and more information, visit: www.routledge.com/9781041142478

Cumulative Effect

Cyber Security Guide for Directors and CEOs



Vladas Leonas

Series: Security, Audit and Leadership Series

Historically, cyber security was always a “poor relation” in the eyes of the majority of Boards and CEOs, considered inferior, less important, or not as well-regarded as other issues or compared to them and treated as an annoying cost centre requiring more and more money that could potentially have been spent “better” elsewhere. This is a result of inertia, a cumulative effect of multiple factors and, more importantly, a lack of understanding of how the landscape has changed in the last 25 or so years.

CRC Press

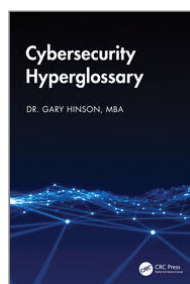
April 2026 : 240pp

Pb: 978-1-041-22074-9 : \$59.99

Hb: 978-1-041-22073-2 : \$140

* For full contents and more information, visit: www.routledge.com/9781041220749

Cybersecurity Hyperglossary



Gary Hinson

Series: Security, Audit and Leadership Series

Precise and consistent communication is vital in the complex and ever-expanding field of cybersecurity and its related domains. This hyperglossary offers more than just plain English definitions of 5,555 terms and abbreviations; it's a meticulously crafted resource designed to foster a shared understanding across a diverse audience, from seasoned professionals to newcomers.

CRC Press

February 2026 : 552pp

Pb: 978-1-041-09553-8 : \$59.99

Hb: 978-1-041-09552-1 : \$150

* For full contents and more information, visit: www.routledge.com/9781041095538

CyberSentinel+

An Advanced Hybrid Honeypot Intrusion Detection System Augmented with Big Data Analytics and Machine Learning Intelligence



Akshay Mudgal

Cybersecurity in the Big Data Era is a fascinating look at the invisible fight going on under our networked lives. In a world where every heartbeat of society is mirrored in digital code, this book shows us how to protect ourselves. This book is more than simply a technical handbook; it's a wake-up call, a roadmap, and a survival aid for anybody who uses digital systems, from business executives and IT professionals to regular people. Go to the nerve center of modern civilization, where power grids, hospitals, banks, and governments all work together perfectly in the digital world—until one small breach threatens to bring it all crashing down.

CRC Press

March 2026 : 386pp

Hb: 978-1-041-11516-8 : \$140

* For full contents and more information, visit: www.routledge.com/9781041115168

Deep Learning Applications in Operations Research



Edited by Sanjay Misra , Amit Jain , Manju Kaushik , Chitresh Banerjee , Rakhi Mutha

Emphasizing practical implementation, this book features real-world use cases, industry applications, and success stories. It examines how intelligent applications are transforming industries such as healthcare, finance, manufacturing, and transportation. By delving into the innovative approaches and emerging trends in advanced intelligent applications, the book examines innovation and leveraging emerging technologies to drive intelligent solutions across diverse domains. Providing a wide-ranging overview of the field, the book helps researchers to navigate the rapidly evolving landscape of advanced intelligent applications.

Routledge

January 2026 : 288pp

Hb: 978-1-032-70918-5 : \$210

* For full contents and more information, visit: www.routledge.com/9781032709185

Digital Forensics in Next-Generation Internet of Medical Things

Balancing Security and Sustainability



Edited by Hemant Kumar Saini , Sita Rani GNDEC, Ludhiana, Mariyam Ouaisa , Mariyam Ouaisa , Zakaria Abou El Houda , Hajar Moudoud

Digital Forensics in Next Generation Internet for Medical Things: Balancing Security and Sustainability provides a comprehensive exploration of the security challenges and solutions with the digital sustainability in the rapidly evolving digital landscape of the digital forensics. It explores into the details of protecting IoT environments, where the medical data, patient data, machine data are at high risks with the digital experiences.

CRC Press

November 2025 : 282pp

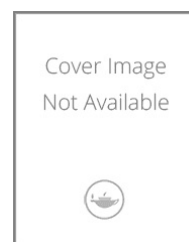
Hb: 978-1-041-07046-7 : \$140

eBook: 978-1-003-64032-5

* For full contents and more information, visit: www.routledge.com/9781041070467

Digital Inside Out

How Digital Leaders Drive Customer-Centered Transformation from the Core



Nicholas Colisto

Digital transformation isn't a department. It's a way of operating—starting from the inside out. In Digital Inside Out, veteran CIO Nicholas Colisto delivers a practical and honest playbook for technology leaders who want to go beyond operations and step into true enterprise leadership. Drawing from decades of experience leading IT at global companies, Nicholas shows how to scale your influence, align with the business, and make technology a driving force for customer value and competitive advantage.

CRC Press

February 2026 : 296pp

Pb: 978-1-041-12846-5 : \$59.99

Hb: 978-1-041-12845-8 : \$140

* For full contents and more information, visit: www.routledge.com/9781041128465

Digital Momentum

Building Real Change-Ready Enterprises



Brice Ominski

Series: Security, Audit and Leadership Series

Architecting for Velocity, Trust, and Continuous Transformation Digital disruption isn't a storm to ride out; it's the atmosphere we breathe. Business models are fundamentally shifting, moving from product-centric to service-dominant. Technologies outpace systems before they've even rebooted. The pace of innovation outstrips the capacity of yesterday's systems to keep up. Digital Momentum is your new playbook for thriving in this world of constant acceleration.

CRC Press

April 2026 : 280pp

Pb: 978-1-041-08678-9 : **\$59.99**

Hb: 978-1-041-07741-1 : **\$140**

* For full contents and more information, visit: www.routledge.com/9781041086789

Digital Project Practice for Green Finance and ESG Innovation



Edited by Tobias Endress

This book is a comprehensive guide that addresses the relationship between digital innovation, green finance, and Environmental, Social, and Governance (ESG) standards. This book digs into the factors driving green and sustainable finance adoption, highlighting the operational and strategic benefits of incorporating ESG into business models. It illustrates the revolutionary role of digital technology in ESG reporting, provides insights into regulatory challenges, and delivers forward-thinking options for sustainable investing. The book is a resource on applying digital innovations to promote economic growth while maintaining environmental stewardship and social responsibility.

Auerbach Publications

March 2026 : 216pp

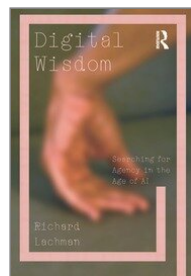
Pb: 978-1-032-86741-0 : **\$64.99**

Hb: 978-1-032-86353-5 : **\$170**

* For full contents and more information, visit: www.routledge.com/9781032867410

Digital Wisdom

Searching for Agency in the Age of AI



Richard Lachman

This book facilitates a more nuanced and informed dialogue with our technologically-mediated future. Through a critical examination of current technological trends—including artificial intelligence, privacy, and social media—this work highlights the discrepancies between prevailing assumptions and the societal effects of these technologies. The text is designed to be accessible to a broad audience, offering both clarity and practical strategies for navigating the evolving digital landscape. It also addresses how to reshape the innovation process to mitigate the reactive 'hype-cycle' nature of technology marketing, with proposed interventions in education, government, and industry.

Routledge

February 2026 : 232pp

Pb: 978-1-032-97164-3 : **\$24.99**

Hb: 978-1-032-97141-4 : **\$84.99**

* For full contents and more information, visit: www.routledge.com/9781032971643

Digitalization and Women's Rights

Women and Sustainability: Volume 2



Edited by Muharrem Kiliç Human Rights and Equality
Institution of Türkiye, Turkey, **Sezer Bozkus Kahyaoglu**
Uni of South Africa Financial Gov Dep, South Africa

Series: Security, Audit and Leadership Series

This comprehensive book study comprises two volumes, and the topics covered in this second volume are a continuation of those presented in the first volume. The main reason for this is that numerous issues related to the situation of women in business and society await solutions, and they have become too numerous to be addressed in a single book.

CRC Press

November 2025 : 272pp

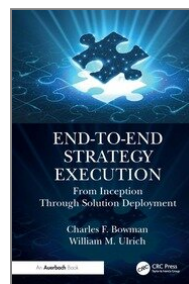
Hb: 978-1-032-89064-7 : **\$140**

eBook: 978-1-003-54255-1

* For full contents and more information, visit: www.routledge.com/9781032890647

End-to-End Strategy Execution

From Inception Through Solution Deployment



Charles F. Bowman , William M. Ulrich

Delivering an end-to-end strategy execution perspective, the book begins with strategy formulation and progresses through impact analysis, business and systems design, initiative scoping and funding, and solution deployment. End-to-end strategy execution culminates with well-designed, executable software systems that deliver on the majority of business strategies established by the C-suite and strategic planning teams. It provides organizations with a formal roadmap, allowing them to set their sights on and achieve their North Star—guiding them from strategy setting through strategy deployment.

Auerbach Publications

December 2025 : 348pp

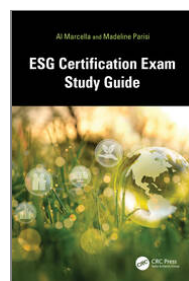
Pb: 978-1-032-45126-8 : **\$64.99**

Hb: 978-1-032-81318-9 : **\$170**

eBook: 978-1-003-49922-0

* For full contents and more information, visit: www.routledge.com/9781032451268

ESG Certification Exam Study Guide



AI Marcella , Madeline Parisi

This two-tiered program is designed for professionals who possess a general understanding of ESG principles and concepts, however, desire to increase, solidify, and demonstrate that knowledge and understanding. This study guide will assist candidates with the overall Certification program process – from initial application to study materials and sample questions, designed to prepare the candidate to take the ESGCertificationTM examination.

CRC Press

November 2025 : 190pp

Pb: 978-1-032-67250-2 : **\$42.99**

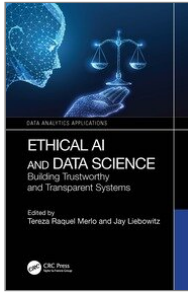
Hb: 978-1-032-67248-9 : **\$140**

eBook: 978-1-032-67255-7

* For full contents and more information, visit: www.routledge.com/9781032672502

Ethical AI and Data Science

Building Trustworthy and Transparent Systems



Edited by **Tereza Raquel Merlo, Jay Liebowitz**
Harrisburg University of Science and Technology,
Pennsylvania, USA

Series: *Data Analytics Applications*

Responsible AI, particularly in Data Science, is an essential contribution to the Data Analytics Applications series, providing a comprehensive guide to the ethical and safety challenges in artificial intelligence (AI) and data science. This book offers a balanced approach to understanding the complex ethical dilemmas, regulatory frameworks, and practical solutions for responsible AI deployment, and a timely reflection on how it affect business and decision-making. By bridging the gap between theory and application, it equips industry professionals, researchers, and policymakers with the tools to develop and implement AI systems that are ethical, transparent, and safe.

Auerbach Publications
April 2026 : 256pp
Pb: 978-1-041-11006-4 : **\$66.99**
Hb: 978-1-041-10929-7 : **\$170**

* For full contents and more information, visit: www.routledge.com/9781041110064

Federated Learning in Finance

Unlocking Privacy-Preserving and Cyber Resilience using AI



Edited by **Swati Sah, Rejwan Bin Sulaiman, Aditya Dayal Tyagi**

Federated Intelligence: Unlocking Privacy-Preserving and Cyber Resilience using AI in the Finance Industry" is an edited volume designed to explore how Federated Intelligence can help the finance industry defend against cyber threats, detect fraud, and comply with regulations, all while keeping sensitive financial data secure and distributed. This book provides a comprehensive roadmap for integrating Federated Learning (FL) and AI-driven cyber security into financial ecosystems.

CRC Press
April 2026 : 328pp
Hb: 978-1-041-11510-6 : **\$140**

* For full contents and more information, visit: www.routledge.com/9781041115106

Forensic Investigation of Smart Digital Devices

A Hands-on Guide



Farkhund Iqbal

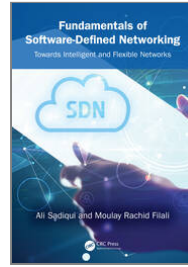
The rapid advancement and ubiquitous presence of smart connected devices have transformed our daily lives. However, this growth has also led to an exponential rise in electronic data generation and storage, which has created new avenues for cybercrime. As devices ranging from home appliances to vehicles and wearable technology become integral to our everyday activities, they continuously produce data that can be exploited by malicious actors, necessitating robust forensic investigation techniques. "Forensic Investigation of Smart Connected Devices: A Hands-on Guide" provides a thorough and practical resource for addressing the forensic challenges associated with these technologies.

CRC Press
January 2026 : 288pp
Pb: 978-1-041-08203-3 : **\$59.99**
Hb: 978-1-041-07830-2 : **\$140**

* For full contents and more information, visit: www.routledge.com/9781041082033

Fundamentals of Software-Defined Networking

Towards Intelligent and Flexible Networks



Ali Sadiqui, Moulay Rachid Filali

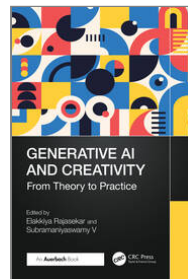
The Fundamentals of Software-Defined Networking: Towards Intelligent and Flexible Networks is a comprehensive, beginner-friendly guide to Software-Defined Networking (SDN), designed specifically for educators, trainers, and professionals transitioning into modern networking. It offers a structured, standards-based approach that starts with fundamental networking concepts and builds up to advanced SDN architectures.

CRC Press
January 2026 : 294pp
Pb: 978-1-041-15428-0 : **\$66.99**
Hb: 978-1-041-15429-7 : **\$170**

* For full contents and more information, visit: www.routledge.com/9781041154280

Generative AI and Creativity

From Theory to Practice



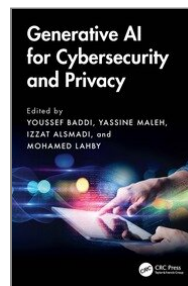
Edited by **Elakkiya Rajasekar, Subramaniyaswamy V**

This guide goes step-by-step journey from the fundamentals of Generative AI to advanced applications. It unravels the complexities of generative models, delves into such key techniques as GANs (Generative Adversarial Networks) and VAEs (Variational Autoencoders), and provides a solid foundation for readers to understand the underlying principles. Offering insight into real-world applications of Generative AI in art and music readers gain practical skills through coding examples, case studies, and collaborative projects.

Auerbach Publications
November 2025 : 371pp
Pb: 978-1-032-87510-1 : **\$99.99**
Hb: 978-1-032-86737-3 : **\$250**
eBook: 978-1-003-53300-9

* For full contents and more information, visit: www.routledge.com/9781032875101

Generative AI for Cybersecurity and Privacy



Edited by **Youssef Baddi, Yassine Maleh** National School of Applied Sciences, **Izzat Alsmadi, Mohamed Lahby**

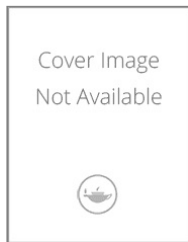
Generative AI for Cybersecurity and Privacy offers a groundbreaking exploration of how generative artificial intelligence is reshaping the landscape of cybersecurity and privacy protection in an era of rapid digital transformation. As cyber threats grow in sophistication and scale, this book provides a timely and authoritative guide to harnessing generative AI to safeguard digital ecosystems, secure sensitive data, and address emerging challenges across diverse domains.

CRC Press
November 2025 : 302pp
Hb: 978-1-032-98020-1 : **\$119.99**
eBook: 978-1-003-59747-6

* For full contents and more information, visit: www.routledge.com/9781032980201

Generative AI Tools

From Algorithms to Applications



Edited by **Priyanka Sharma , A.V. Senthil Kumar , Monika Jyotiyan , Adnan Alrabea**

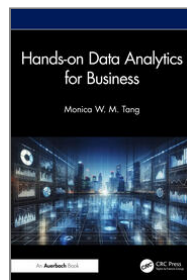
Series: Advances in Computational Collective Intelligence

The book focuses on concepts to give readers a wider perspective on generative AI systems such as ChatGPT. It examines algorithmic elements pertaining to the improvement of current tools. It also examines how generative AI can lead to social benefits.

Auerbach Publications
April 2026 : 256pp
Hb: 978-1-032-74590-9 : \$200

* For full contents and more information, visit: www.routledge.com/9781032745909

Hands-on Data Analytics for Business



Monica W. M. Tang

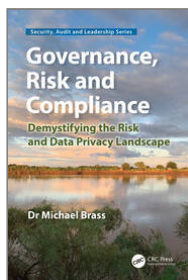
This book gives deep insights into data analytics while inspiring views and visions on future trends for both business professionals and university students. It provides the readers with a practical view with real-world applications grounded on research results on how to utilize advanced data analytics with a step-by-step approach illustrated in Excel and SPSS to tackle modern complex activities for companies to gain a competitive edge. Hypothetical data are provided alongside with this book for readers to have hands-on practices using these analytics tools.

Auerbach Publications
February 2026 : 180pp
Pb: 978-1-032-61999-6 : \$64.99
Hb: 978-1-032-62736-6 : \$170

* For full contents and more information, visit: www.routledge.com/9781032619996

Governance, Risk and Compliance

Demystifying the Risk and Data Privacy Landscape



Michael Brass

Series: Security, Audit and Leadership Series

This book on Governance, Risk Management Compliance (GRC) and Data Privacy is designed to equip apprentices, students and professionals across various industries with a deep understanding of this holistic approach to organizational security and risk management, quality management and regulatory responsibilities. It involves aligning a company's governance structure, quality and risk processes, and compliance and data privacy activities to better enable the achievement of the company's strategic goals.

CRC Press
December 2025 : 206pp
Pb: 978-1-032-89671-7 : \$59.99
Hb: 978-1-032-89058-6 : \$140

* For full contents and more information, visit: www.routledge.com/9781032896717

Innovative Business Strategies

In the Era of Digital Transformation



Judyta Kabus , Joanna Antczak , Ida Skubis , Monika Zajkowska

The digital age encompasses a range of technological innovations, instant access to information, global connectivity, the ability to process vast amounts of data quickly, the development of artificial intelligence, and changes in culture, society and the economy. A comprehensive study on the impact of digital transformation on business management, the book addresses management issues in the face of the dynamic development of technology and digitalisation. It discusses how companies should adapt their strategies and structures to a changing business environment where technology plays a key role.

Routledge
April 2026 : 200pp
Hb: 978-1-041-23432-6 : \$120

* For full contents and more information, visit: www.routledge.com/9781041234326

Handbook of Security, Quantum Computing and Internet of Things (IoT)



Edited by **Usha Jain , Anu Sayal , Anchit Bijalwan**

The Handbook of Security, Quantum Computing, and Internet of Things explores the critical intersection of IoT, security, and quantum technologies. As IoT devices multiply, ensuring robust protection has become urgent. The book begins with IoT security standards, highlighting vulnerabilities and strategies like SQL Injection Defence (SQLi-DS). It addresses architectural challenges and stresses adaptive frameworks to withstand evolving cyber threats. The role of AI and ML in strengthening IoT security is emphasized, including hybrid ML-based attack prevention and IP reputation validation in isolated networks.

CRC Press
April 2026 : 264pp
Hb: 978-1-032-94701-3 : \$140

* For full contents and more information, visit: www.routledge.com/9781032947013

Intelligent and Secure Solutions for Digital Transformation



Edited by **Qasem Abu Al-Haija , Yassine Maleh** National School of Applied Sciences, **Ammar Odeh**

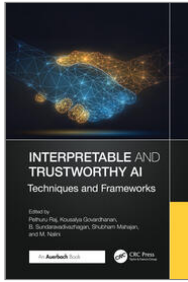
Offers a comprehensive exploration of cutting-edge technologies and methodologies at the intersection of cybersecurity and digital innovation. In an era where rapid digital transformation is reshaping industries, this book delivers timely insights into how organizations can secure their infrastructures while embracing intelligent, data-driven change.

CRC Press
December 2025 : 272pp
Hb: 978-1-041-01271-9 : \$140

* For full contents and more information, visit: www.routledge.com/9781041012719

Interpretable and Trustworthy AI

Techniques and Frameworks



Edited by **Pethuru Raj** IBM Pvt.Ltd., India, **Kousalya Govardhanan**, **B. Sundaravadivazhagan** University of Technology and Applied Sciences-AI Mussana, **Shubham Mahajan** SMVDU, Jammu, India Amity School of Engineering and Technology (ASET) Amity University, Gurugram, Panchgaoon, Haryana, **M. Nalini**

Users expect proper explanation and interpretability of all the decisions being taken by machine and deep learning (ML/DL) algorithms. This book covers key requirements for interpretability and trustworthiness of AI models and how these needs can be fulfilled. After explaining concepts, it discusses proven and potential techniques and solutions to create and sustain interpretable and trustworthy AI models in order to make AI penetrative, pervasive, and persuasive. It also presents scenarios and uses cases in various industry sectors.

Auerbach Publications
November 2025 : 414pp
Hb: 978-1-032-96063-0 : \$220
eBook: 978-1-003-58778-1

* For full contents and more information, visit: www.routledge.com/9781032960630

IoT Cybersecurity

Trends, Challenges, and Solutions



Edited by **Laxmi Shaw**, **D. Ajitha**, **Chinmay Chakraborty** BIT, India, **S.M. Prabin**

Series: Advances in Computational Collective Intelligence

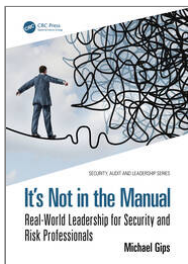
The connected nature of devices within the Internet of Things (IoT) has ushered in unprecedented opportunities, as well as formidable challenges in ensuring robust cybersecurity. This edited book presents research and insights into practice that explore the current patterns, difficulties, and effective solutions in the realm of IoT cybersecurity.

Auerbach Publications
April 2026 : 248pp
Hb: 978-1-032-95878-1 : \$200

* For full contents and more information, visit: www.routledge.com/9781032958781

It's Not in the Manual

Real-World Leadership for Security and Risk Professionals



Michael Gips

Series: Security, Audit and Leadership Series

It's Not In the Manual shatters the illusion that effective leadership in security, risk, and resilience is all about titles, certifications, or rigid frameworks. In a world where cyber threats, insider risk, reputational landmines, and geopolitical chaos overlap, this book delivers something far more valuable: hard-earned wisdom, human vulnerability—and a wry sense of humor. Written with both erudition and pop culture sensibility, the book blends field-tested insights with sharp wit, drawing from sources as varied as Socrates and Snoopy, Bill Gates and Bill Bryson, quantum physics and playground fistfights.

CRC Press
December 2025 : 256pp
Pb: 978-1-041-08673-4 : \$44.99
Hb: 978-1-041-07752-7 : \$140

* For full contents and more information, visit: www.routledge.com/9781041086734

Mastering Cybersecurity

A Practical Guide to Cyber Tools and Techniques (Volume 2)



Akashdeep Bhardwaj University of Petroleum and Energy Studies

Mastering Cybersecurity – A Practical Guide to Cyber Tools & Techniques (Volume 2) offers a hands-on, real-world approach to developing modern cybersecurity skills. This volume builds on foundational concepts to provide readers with practical techniques and toolsets that are essential in today's evolving threat landscape. Each chapter dives into a critical area of cybersecurity, emphasizing applied learning through real-world scenarios, case studies, and step-by-step exercises.

CRC Press
November 2025 : 236pp
Pb: 978-1-032-89392-1 : \$59.99
Hb: 978-1-032-88743-2 : \$140
eBook: 978-1-003-54254-4

* For full contents and more information, visit: www.routledge.com/9781032893921

Metaverse Platform Implementation

AI, Security, and Applications



Edited by **Fei Hu** University of Alabama, Tuscaloosa, USA, **Shengting Cao**, **Xiali (Sharon) Hei** University of Louisiana at Lafayette, USA

Metaverse Platform Implementation: AI, Security, and Applications provides a comprehensive exploration of the engineering and scientific principles behind the metaverse, a 3D digital world designed to replicate and enhance physical reality through some advanced technologies like Extended Reality (xR), Artificial Intelligence (AI), blockchain, 5G/6G, and computer vision. The book delves into the hardware (sensors, headsets, edge/cloud servers) and software (3D scene reconstruction, synchronization, AI processing) components that form the backbone of metaverse platforms, addressing critical aspects such as security, privacy, and social implications.

CRC Press
December 2025 : 282pp
Hb: 978-1-032-66355-5 : \$150

* For full contents and more information, visit: www.routledge.com/9781032663555

Mitigating the Risks of AI Deepfakes



Edited by **Tarek Moulahi**, **Malka N. Halgamuge**, **Pascal Lorenz**

Artificial intelligence (AI) has become deeply embedded in modern life, with autonomous systems now controlling many crucial functions in healthcare, transportation, and industry. However, the incredible power of AI also enables new forms of manipulation, deception, and harm. In our proposed book "Safeguarding Our Digital Future: Mitigating the Risks of AI Deepfakes," the chapters explore the dark side of AI and its dangerous implications for human wellbeing.

CRC Press
April 2026 : 288pp
Hb: 978-1-032-82350-8 : \$140

* For full contents and more information, visit: www.routledge.com/9781032823508

Modern Benford's Law

State of the Art Techniques for Audit and Compliance Professionals



Daniel J. McCarville

Series: Security, Audit and Leadership Series

Benford's Law offers a powerful, data-driven approach to anomaly detection. Discovered 150 years ago, it wasn't until the 1990s that auditors began harnessing its potential for identifying irregularities in financial data. Today, the Benford's Law community spans a wide range of professions and academic disciplines. This book provides the latest research-based techniques packaged for ready usage by auditors and audit analytics professionals. Discover how to use Benford's Law in continuous monitoring and pinpoint non-compliant vendors, accounts or other groups.

CRC Press

February 2026 : 160pp

Pb: 978-1-032-91262-2 : **\$59.99**

Hb: 978-1-032-91039-0 : **\$140**

* For full contents and more information, visit: www.routledge.com/9781032912622

Open for Business

Harnessing the Power of Open-Source in the Corporate World



Rahim Ali , Dan "Sage" Khan

In an era where corporate giants and technological behemoths wield unprecedented power over the digital landscape, this book is a call for autonomy, security, and innovation through open-source software. At the heart of this book lies the conviction that true technological freedom and strategic advantage are attainable through embracing open-source solutions. It is not merely a theoretical discourse but a practical guide that lays out foundational strategies for integrating open-source solutions into a corporate IT infrastructure. It offers a step-by-step framework for building cloud citadels, networking nexuses, and data sanctuaries with robust open-source tools.

Auerbach Publications

December 2025 : 309pp

Pb: 978-1-032-88123-2 : **\$59.99**

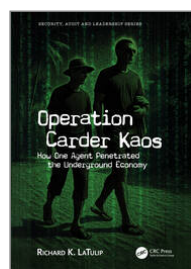
Hb: 978-1-032-88127-0 : **\$180**

eBook: 978-1-003-53631-4

* For full contents and more information, visit: www.routledge.com/9781032881232

Operation Carder Kaos

How One Agent Penetrated the Underground Economy



Richard K. LaTulip

Series: Security, Audit and Leadership Series

Operation Carder Kaos offers a rare inside look at the murky world of cybercrime, where deception is currency and exposure can be deadly. It's a high-stakes, real-world thriller about betrayal, digital warfare, and the price of living two lives. For readers of spy thrillers, cybercrime exposés, and intelligence memoirs, this is the true story they've never heard—told by the agent who lived it.

CRC Press

December 2025 : 256pp

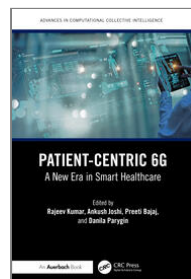
Pb: 978-1-041-08206-4 : **\$59.99**

Hb: 978-1-041-07749-7 : **\$140**

* For full contents and more information, visit: www.routledge.com/9781041082064

Patient-Centric 6G

A New Era in Smart Healthcare



Edited by **Rajeev Kumar** Moradabad Institute of Technology, India, **Ankush Joshi** , **Preeti Bajaj** , **Danila Parygin**

Series: Advances in Computational Collective Intelligence

The book explores the technical innovations that 6G offers in the field of healthcare, providing insights into how enhanced connection promotes individualized and compassionate patient care. Through the use of case studies, practical examples, and knowledgeable analysis, readers acquire a thorough grasp of the potential that 6G unlocks, encouraging a new degree of participation and cooperation within the healthcare ecosystem. This book serves as a roadmap for the future of healthcare connectivity, one in which medical service delivery is integrated into our hyper connected world, patients are empowered, and healthcare personnel have state-of-the-art equipment.

Auerbach Publications

December 2025 : 338pp

Pb: 978-1-032-85109-9 : **\$99.95**

Hb: 978-1-032-82696-7 : **\$220**

* For full contents and more information, visit: www.routledge.com/9781032851099

Pega Agent AI on Cloud 3

Architecture, Governance, and Operating Models for Modern Enterprises



Sairohith Thummarakoti

This book discusses agent AI in architecture, governance, and operations. Agents are presented as services with defined service level objectives (SLOs), budgets, controls, and responsible parties. The text provides guidance on implementing these principles in practice. It also explores how Pega Cloud 3 leverages Google Cloud Platform (GCP) and Amazon Web Services (AWS) to build scalable Software as a Service (SaaS) platforms. It explains the architecture of Pega Cloud 3, its Kubernetes-based pod structure, and how it differs from Pega Cloud 2. It provides readers with insights into microservices and their impact on application performance.

Auerbach Publications

April 2026 : 288pp

Pb: 978-1-041-21267-6 : **\$64.99**

Hb: 978-1-041-21187-7 : **\$180**

* For full contents and more information, visit: www.routledge.com/9781041212676

Practical Approach to Open Source Intelligence (OSINT)

Volume 2



Akashdeep Bhardwaj University of Petroleum and Energy Studies

This book offers a practical and in-depth exploration of Open-Source Intelligence (OSINT) tailored for cybersecurity professionals, digital investigators, and threat analysts. It guides readers through actionable methodologies across key OSINT domains, such as domain/IP tracking, phone and email intelligence, vulnerability assessments, and threat profiling, using real-world tools and case studies. With focused coverage on both Windows and Linux environments, as well as high-profile ransomware and data breach investigations, it bridges offensive techniques with ethical, responsible analysis.

CRC Press

December 2025 : 254pp

Pb: 978-1-041-17166-9 : **\$59.99**

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Program Architecture

Fight the Good Fight



Gideon T. Rasmussen

Series: Security, Audit and Leadership Series

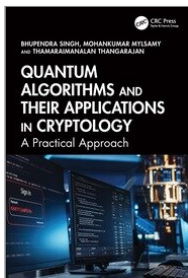
Business executives consider what is necessary to protect the company. It comes down to people, process and technology, organized within an information security program. Everything has its place within the program, including business processes, assets and the right blend of controls to protect them.

CRC Press
November 2025 : 188pp
Pb: 978-1-032-89600-7 : **\$59.99**
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eBook: 978-1-003-54361-9

* For full contents and more information, visit: www.routledge.com/9781032896007

Quantum Algorithms and their Applications in Cryptology

A Practical Approach



Bhupendra Singh, Mohankumar Mysamy, Thamaraimanalan Thangarajan

Cryptography has long been an essential tool in safeguarding digital communication and securing sensitive information. As technology has progressed, so has the complexity of the methods used to protect our data.

CRC Press
December 2025 : 304pp
Pb: 978-1-032-99852-7 : **\$64.99**
Hb: 978-1-032-99817-6 : **\$150**

* For full contents and more information, visit: www.routledge.com/9781032998527

Quantum Computing

Research, Applications, and Advances



Edited by **Arun Sekar Rajasekaran, Suganyadevi S, Fadi Al-Turjman** Near East Uni., Nicosia

Series: Innovations in Intelligent Internet of Everything (IoE)

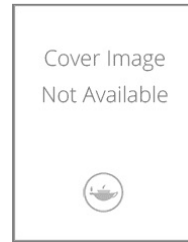
The book offers a comprehensive overview of quantum mechanics principles that form the basis of quantum computing, simplifying complex concepts like superposition, entanglement, and quantum gates for readers of all backgrounds. Through clear language, it ensures that even newcomers can grasp the fundamentals. Covering everything from foundational principles to cutting-edge research, the book examines the race for quantum supremacy, scalable hardware, and the latest breakthroughs. It also explores practical applications in cryptography, optimization, and drug discovery, bridging theory and practice for both beginners and experts.

Auerbach Publications
April 2026 : 432pp
Hb: 978-1-032-95828-6 : **\$140**

* For full contents and more information, visit: www.routledge.com/9781032958286

Quantum Machine Learning

Concepts, Algorithms, and Applications



Edited by **Syed Nisar Hussain Bukhari**

The book explores quantum computing's transformative impact on artificial intelligence and machine learning. This book provides a roadmap to understanding how such quantum principles as superposition and entanglement can enhance learning algorithms and processing. Beyond theoretical knowledge, the book emphasizes practical implementation and offers code samples and real-world case studies. Readers are guided through hands-on projects in fields ranging from healthcare to finance, where quantum machine learning is poised to make significant contributions.

Auerbach Publications
April 2026 : 384pp
Pb: 978-1-041-14465-6 : **\$99.99**
Hb: 978-1-041-13662-0 : **\$250**

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Quantum Ready

The Enterprise Guide to Post-Quantum Cryptographic Readiness



Walt Powell

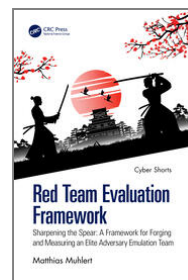
Quantum Ready is not just a warning, it's a field guide for the era of quantum disruption. As quantum computing accelerates toward the threshold where today's encryption becomes obsolete, organizations must prepare now or risk a catastrophic breakdown in digital trust. Written by one of the world's first Field CISOs, this book delivers a strategic, vendor-neutral roadmap for CISOs, security architects, and IT leaders responsible for protecting long-term data and infrastructure. It introduces the Q-Ready Framework, a comprehensive five-phase approach to discovering, prioritizing, migrating, validating, and sustaining quantum-safe cryptography across the enterprise.

CRC Press
February 2026 : 328pp
Pb: 978-1-041-16669-6 : **\$59.99**
Hb: 978-1-041-16668-9 : **\$140**

* For full contents and more information, visit: www.routledge.com/9781041166696

Red Team Evaluation Framework

Sharpening the Spear: A Framework for Forging and Measuring an Elite Adversary Emulation Team



Matthias Muhlert

Series: Cyber Shorts

Is your red team delivering genuine security value or just expensive theater? In an era where cybersecurity investments are under constant scrutiny, organizations can no longer afford to treat red teaming as a simple compliance checkbox. This book, Red Team Evaluation Framework, provides a definitive guide for transforming your red team program from a technical expense into a strategic asset. Moving beyond a mere list of exploits, this framework equips CISOs, security managers, and practitioners with the tools to assess and quantify the effectiveness of red team engagements.

CRC Press
February 2026 : 186pp
Pb: 978-1-041-11107-8 : **\$34.99**
Hb: 978-1-041-11106-1 : **\$140**

* For full contents and more information, visit: www.routledge.com/9781041111078

Research Advances in Intelligent Computing

Volume 3



Edited by **Anshul Verma** Banaras Hindu University, India,
Pradeepika Verma IIT (BHU), India

As computers and intelligent machines evolve at an unprecedented pace, the quest to replicate human intelligence in software and systems has become a defining challenge of our time. Research Advances in Intelligent Computing: Volume 3 explores this dynamic field, where artificial intelligence (AI) and computational models converge to create systems capable of learning, reasoning, and problem-solving. Drawing inspiration from human cognition, intelligent computing (IC) integrates AI techniques such as machine learning, neural networks, deep learning, evolutionary algorithms, and swarm intelligence to build adaptive, efficient, and autonomous systems.

CRC Press
April 2026 : 440pp
Hb: 978-1-041-14516-5 : \$180

* For full contents and more information, visit: www.routledge.com/9781041145165

Research Advances in Network Technologies

Volume 3



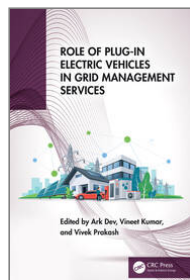
Edited by **Anshul Verma** Banaras Hindu University, India,
Pradeepika Verma IIT (BHU), India

In the digital age, information is the most vital asset and network technologies are the invisible threads that connect our world. From homes and businesses to smart cities and autonomous vehicles, these technologies enable seamless communication, efficient data processing, and intelligent decision-making across a wide range of applications. Research Advances in Network Technologies: Volume 3 offers a comprehensive exploration of modern network technologies, tracing their evolution from traditional wired systems to cutting-edge wireless solutions such as Bluetooth, satellite networks, and the Internet of Things (IoT).

CRC Press
March 2026 : 384pp
Hb: 978-1-041-14517-2 : \$160

* For full contents and more information, visit: www.routledge.com/9781041145172

Role of Plug-in Electric Vehicles in Grid Management Services



Edited by **Ark Dev**, **Vineet Kumar**, **Vivek Prakash**

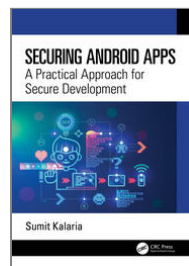
Provides a comprehensive exploration of how PEVs are transforming modern power networks, offering solutions for demand-side management, vehicle-to-grid (V2G) integration, and energy storage.

CRC Press
November 2025 : 318pp
Hb: 978-1-041-01119-4 : \$160
eBook: 978-1-003-61323-7

* For full contents and more information, visit: www.routledge.com/9781041011194

Securing Android Apps

A Practical Approach for Secure Development



Sumit Kalaria

Android Application Security: A Layman's Thought Process to Secure Apps offers a comprehensive guide to securing Android applications using the OWASP Mobile Application Security Verification Standard (MASVS) framework. With a focus on actionable strategies, secure coding practices, and real-world scenarios, this book bridges the gap between theory and practice. Designed for developers, security professionals, and students, it equips readers with the tools to defend against evolving threats and create robust mobile applications.

CRC Press
November 2025 : 366pp
Pb: 978-1-041-07401-4 : \$59.99
Hb: 978-1-041-07044-3 : \$140
eBook: 978-1-003-64033-2

* For full contents and more information, visit: www.routledge.com/9781041074014

Securing Health

The Convergence of AI and Cybersecurity in Healthcare



Edited by **Rejwan Bin Sulaiman**, **Usman Javed Butt**,
Yassine Maleh, **Mohammad Aljaidi**, **Md. Simul Hasan Talukder**, **Musarrat Saber Nipun**

Series: Advances in Cybersecurity Management

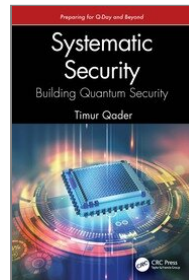
Securing Health: The Convergence of AI and Cybersecurity in Healthcare explores how emerging technologies are revolutionizing modern medicine, ensuring not just innovation but safety and trust in the digital age. As artificial intelligence and cybersecurity rapidly transform industries, this timely book offers an in-depth look at their powerful convergence within the healthcare sector.

CRC Press
December 2025 : 386pp
Hb: 978-1-032-88738-8 : \$140
eBook: 978-1-003-54359-6

* For full contents and more information, visit: www.routledge.com/9781032887388

Systematic Security: Building Quantum Security

Preparing for Q-Day and Beyond



Timur Qader

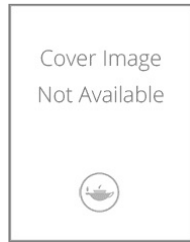
The emergence of quantum computing introduces a significant shift in the digital and security landscape—prompting organizations to reassess the foundations of how we protect information. Systematic Security: Building Quantum Security is a practical guide for security professionals, technologists, engineers, and organizational leaders seeking to prepare for the long-term impact of quantum technology on existing and future systems. In this structured and accessible book, cybersecurity expert Timur Qader presents a step-by-step approach to quantum security.

CRC Press
January 2026 : 256pp
Pb: 978-1-041-16664-1 : \$59.99
Hb: 978-1-041-16663-4 : \$140

* For full contents and more information, visit: www.routledge.com/9781041166641

Teach, Train, Transform

The Superhero Way



Denise Cicchella

Series: Security, Audit and Leadership Series

Unleash your inner dynamo and step into the spotlight with confidence, clarity, and charisma! This isn't your average training manual—it's a turbo-charged transformation toolkit for anyone who's ever stood in front of a classroom, a boardroom, or even a living room full of curious minds and thought: "How do I not just teach—but truly transform?" Whether you're a seasoned speaker craving a fresh spark, a new trainer finding your feet, or an educator dreaming of more connection and impact, *Teach, Train, Transform – The Superhero Way* will catapult you from ordinary presenter to unforgettable powerhouse.

CRC Press

January 2026 : 296pp

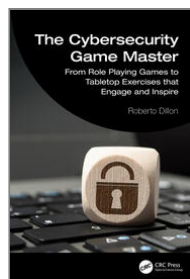
Pb: 978-1-041-08205-7 : \$34.99

Hb: 978-1-041-07743-5 : \$140

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The Cybersecurity Game Master

From Role Playing Games to Tabletop Exercises that Engage and Inspire



Roberto Dillon

In today's digital landscape, no company is immune to cyber-attacks, making preparedness essential for any organization, regardless of size. Enter the world of Tabletop Exercises (TTX), a cost-effective and results-driven approach to test cyber crises proactively. However, workplace dynamics can hinder effective participation as the fear of proposing wrong decisions and the apprehension of appearing less competent in front of colleagues can still stifle creativity, even during a simple exercise.

CRC Press

December 2025 : 202pp

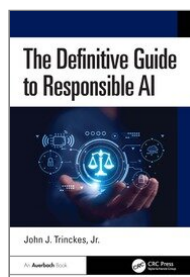
Pb: 978-1-032-99851-0 : \$59.99

Hb: 978-1-032-99820-6 : \$140

eBook: 978-1-003-60631-4

* For full contents and more information, visit: www.routledge.com/9781032998510

The Definitive Guide to Responsible AI



John J. Trinckes, Jr. Coalfire Systems, Inc., Westminster, Colorado, USA

This book is intended for anyone who is responsible for, or leading activities related to the development, implementation, or use of AI. This includes Chief AI Officer, Chief Information Security Officers, Chief Privacy Officer, Chief Compliance Officer (and other executives, leaders, or implementors dealing with AI initiatives at an organization. AI is now becoming prevalent in all types of industries and this book is agnostic to cover the AI systems themselves as opposed to any specific industry (albeit some specific regulations and some industry specific standards will be referenced as part of topics covering governance and responsible AI use).

Auerbach Publications

December 2025 : 228pp

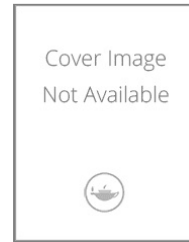
Pb: 978-1-041-03494-0 : \$39.99

Hb: 978-1-041-03222-9 : \$130

* For full contents and more information, visit: www.routledge.com/9781041034940

The Digital Transformation of Professions

A Roadmap for Remaining Trusted, Relevant, and Future-Ready



Richard Busulwa University of South Australia, Australia,
Wahed Waheduzzaman, Nandana Wasantha Pathiranan

Owing to ongoing and accelerating digital technology advancements, many professions are undergoing unprecedented digital disruption. Digital technologies like cloud computing, AI, IoT, and blockchain are fundamentally transforming required professional roles. Given the fundamentally important roles professions play, it is critical that the educators prepare the future workforce of the professions, and professionals themselves understand how their professions are being digitally disrupted, how they need to digitally transform, what this means for professionals, and what actions they can take to adapt to the coming change.

Routledge

March 2026 : 296pp

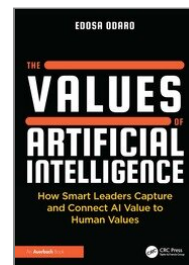
Pb: 978-1-032-99893-0 : \$66.99

Hb: 978-1-032-99780-3 : \$150

* For full contents and more information, visit: www.routledge.com/9781032998930

The Values of Artificial Intelligence

How Smart Leaders Capture and Connect AI Value to Human Values



Edosa Odaro

The book provides senior leaders with a guide for capturing, connecting, and communicating AI's values. It shows how to ensure that AI projects deliver not only short-term but sustainable, long-term benefits. This book addresses the key challenge of realising AI's business value, focusing on how leaders can develop and implement AI initiatives that strategically align with goals. It bridges the gap between technology, business, and human perspectives to drive synergy and maximise impact. It emphasises communicating the benefits of AI projects to stakeholders to ensure short-term support and long-term success.

Auerbach Publications

January 2026 : 320pp

Pb: 978-1-041-07750-3 : \$34.99

Hb: 978-1-041-07386-4 : \$130

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Transforming Cybersecurity Audit Practices with Agility and Artificial Intelligence (AI)



Linda Kostic

Series: Security, Audit and Leadership Series

In an era where cyber threats evolve faster than traditional defenses can adapt, the need for a paradigm shift in cybersecurity auditing has never been more urgent. *Transforming Cybersecurity Audit Practices with Agility and Artificial Intelligence (AI)* presents a groundbreaking approach to modernizing audit methodologies by integrating agile principles and artificial intelligence. This book explores how conventional audit frameworks—often rigid, reactive, and siloed—can be reimagined into dynamic, proactive, and intelligent systems that align with the pace of digital transformation.

CRC Press

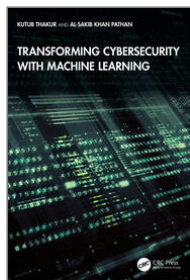
January 2026 : 296pp

Pb: 978-1-041-07398-7 : \$59.99

Hb: 978-1-041-07043-6 : \$140

* For full contents and more information, visit: www.routledge.com/9781041073987

Transforming Cybersecurity with Machine Learning



Kutub Thakur New Jersey City University, New Jersey, USA, **Al-Sakib Khan Pathan**

This book provides an in-depth exploration of the dynamic intersection between machine learning (ML) and cybersecurity, offering a detailed analysis of how these technologies are reshaping the security landscape

CRC Press
December 2025 : 269pp
Pb: 978-1-041-17168-3 : \$49.99
Hb: 978-1-041-17167-6 : \$120
* For full contents and more information, visit: www.routledge.com/9781041171683

Trust, Safety, and the Internet We Share

Multistakeholder Insights



Edited by **Maia Levy Daniel**, **Amanda Menking**, **Marlyn Savio**, **Jean Claffey**

The book is both an informative and provocative overview of online trust and safety that will influence how the trust and safety space is being shaped and how trust and safety decisions are being made. The book covers key aspects of the field and focuses on underrepresented voices. It explains how valuable organizations in the field came together and what lessons they can offer. The future of the internet needs meaningful conversations among stakeholders. The book brings together the voices of these stakeholders so they can begin working together and learning from each other to create safer, more inclusive online spaces.

Routledge
January 2026 : 368pp
Pb: 978-1-041-02819-2 : \$64.99
Hb: 978-1-032-85962-0 : \$170
* For full contents and more information, visit: www.routledge.com/9781041028192

Unleashing User Innovation

Multidisciplinary Perspectives on End-User Development and Generative AI



Edited by **Mohammad Amin Kuhail**, **Mostafa Mohamad**, **Rawad Hammad**, **Mohammed Bahja**

The book takes a multidisciplinary approach to end-user development, incorporating next-generation technologies and Industry 5.0 principles. By exploring the intersection of diverse fields, the book reveals how generative AI empowers individuals engaged in end-user development to unlock their creative potential. It emphasizes the role of generative AI in enabling these developers to create innovative software solutions effectively. With a focus on cutting-edge advancements, the book showcases how the integration of generative AI fosters a collaborative environment that bridges the gap between technical and non-technical users to democratize development and foster innovation.

Auerbach Publications
December 2025 : 380pp
Hb: 978-1-032-76956-1 : \$200
eBook: 978-1-003-48569-8
* For full contents and more information, visit: www.routledge.com/9781032769561

Unveiling the Art of Steganography

A Modern Approach

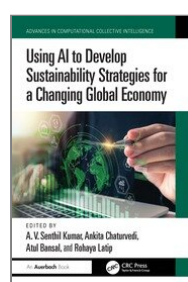


Urmila Pilania, **Manoj Kumar**

The book delves into the fundamentals of steganography, the ancient art of hiding messages in plain sight. From the historical roots to modern applications, readers are taken on a journey through the techniques that transform seemingly ordinary content into carriers of covert communication. The book not only demystifies the basics of steganography but also sheds light on its contemporary applications in digital security, forensics, and confidential messaging. "Hidden Ink" is a captivating guide for both enthusiasts eager to unravel secrets and professionals seeking insights into the nuanced realm of steganography.

CRC Press
March 2026 : 196pp
Pb: 978-1-032-82365-2 : \$59.99
Hb: 978-1-032-82107-8 : \$140
* For full contents and more information, visit: www.routledge.com/9781032823652

Using AI to Develop Sustainability Strategies for a Changing Global Economy



Edited by **A.V. Senthil Kumar**, **Ankita Chaturvedi**, **ATUL BANSAL**, **Rohaya Latip**

Series: Advances in Computational Collective Intelligence

The book explores the innovations, disruptions and changes that are required to adapt in a fast-evolving landscape due to the extraordinary circumstances triggered by climate change. It highlights the meaningful overall impact on industry globally by addressing key issues, trends, and future perspectives for sustainable development using Artificial Intelligence.

Auerbach Publications
November 2025 : 312pp
Hb: 978-1-032-57279-6 : \$200
eBook: 978-1-003-64077-6
* For full contents and more information, visit: www.routledge.com/9781032572796

3RD EDITION

Analysis of Multivariate Social Science Data

Statistical Machine Learning Methods



Irini Moustaki , Fiona Steele , Yunxiao Chen , David Bartholomew

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

The Third Edition enables a basic understanding of how to use key multivariate methods in the social sciences. After emphasizing the summarization of data in the first several chapters, the authors focus on regression analysis. This chapter provides a link between the two halves of the book, signaling the move from descriptive to inferential methods and from interdependence to dependence.

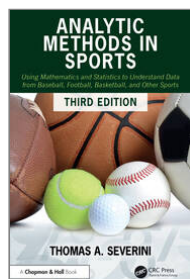
Chapman & Hall
February 2026 : 496pp
Pb: 978-1-032-76372-9 : **\$66.99**
Hb: 978-1-032-77476-3 : **\$170**

* For full contents and more information, visit: www.routledge.com/9781032763729

3RD EDITION

Analytic Methods in Sports

Using Mathematics and Statistics to Understand Data from Baseball, Football, Basketball, and Other Sports



Thomas A Severini Department of Statistics, Northwestern University, USA

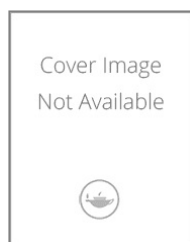
Used to teach an introductory course on statistics to undergraduate students using sports examples. Its practical focus on application rather than theory ensures students develop immediately applicable skills for the rapidly expanding field of sports analytics.

Chapman & Hall
January 2026 : 480pp
Pb: 978-1-032-83600-3 : **\$79.99**
Hb: 978-1-032-83609-6 : **\$220**

* For full contents and more information, visit: www.routledge.com/9781032836003

Applied Statistics with Python

Two-Volume Set



Leon Kaganovskiy Touro University, USA

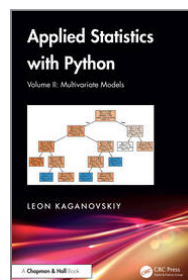
Applied Statistics with Python, Two-Volume Set focuses on applied and computational aspects of statistics, ANOVA, multivariate models such as multiple regression, model selection, reduction techniques, regularization methods like lasso and ridge, logistic regression, K-nearest neighbors, support vector classifiers, nonlinear models, tree-based methods, clustering, and principal component analysis. It has been expanded from 8 chapters to 13 chapters and is intended for students in business, economics, biology, social sciences and natural science while also being useful as a supplementary text.

Chapman & Hall
December 2025 : 656pp
Hb: 978-1-041-19170-4 : **\$200**

* For full contents and more information, visit: www.routledge.com/9781041191704

Applied Statistics with Python

Volume II: Multivariate Models



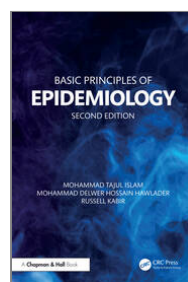
Leon Kaganovskiy Touro University, USA

Applied Statistics with Python, Volume II focuses on ANOVA, multivariate models such as multiple regression, model selection, and reduction techniques, regularization methods like lasso and ridge, logistic regression, K-nearest neighbors (KNN), support vector classifiers, nonlinear models, tree-based methods, clustering, and principal component analysis. As in Volume I, the Python programming language is used throughout due to its flexibility and widespread adoption in data science and machine learning. The book relies heavily on tools from the standard sklearn package, which are integrated directly into the discussion.

Chapman & Hall
December 2025 : 310pp
Hb: 978-1-041-00625-1 : **\$120**

* For full contents and more information, visit: www.routledge.com/9781041006251

Basic Principles of Epidemiology



Mohammad Tajul Islam , Mohammad Delwer Hossain Hawlader , Russell Kabir

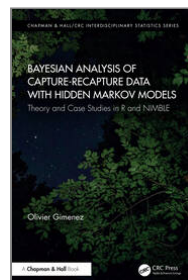
User-friendly textbook written with the aim of making easy learning of epidemiological methods and applying them in public health research.

Chapman & Hall
January 2026 : 302pp
Hb: 978-1-041-10177-2 : **\$99.99**

* For full contents and more information, visit: www.routledge.com/9781041101772

Bayesian Analysis of Capture-Recapture Data with Hidden Markov Models

Theory and Case Studies in R and NIMBLE



Olivier Gimenez Centre d'Ecologie Fonctionnelle et Evolutive - CNRS, France

Series: Chapman & Hall/CRC Interdisciplinary Statistics

Introduces ecologists and statisticians to a powerful and unifying framework for analysing capture-recapture data. Hidden Markov models (HMMs) have become a cornerstone in modern population ecology.

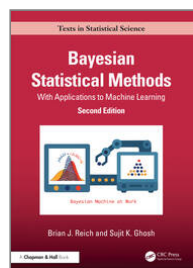
Chapman & Hall
March 2026 : 360pp
Hb: 978-1-032-15423-7 : **\$99.99**

* For full contents and more information, visit: www.routledge.com/9781032154237

2ND EDITION

Bayesian Statistical Methods

With Applications to Machine Learning



Brian J. Reich N.C. State University, **Sujit K. Ghosh**

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

Bayesian Statistical Methods: With Applications to Machine Learning provides data scientists with the foundational and computational tools needed to carry out a Bayesian analysis. Compared to others, this book is more focused on Bayesian methods applied routinely in practice including multiple linear regression, mixed effects models and generalized linear models. This second edition includes a new chapter on Bayesian machine learning methods to handle large and complex datasets and several new applications to illustrate the benefits the Bayesian approach in terms of uncertainty quantification.

Chapman & Hall
February 2026 : 360pp
Hb: 978-1-032-48632-1 : \$100

* For full contents and more information, visit: www.routledge.com/9781032486321

Bayesian Survival, Longitudinal, and Joint Models with INLA



Denis Rustand CEMSE, KAUST, Thuwal, Saudi Arabia, **Janet van Niekerk** CEMSE, KAUST, Thuwal, Saudi Arabia, **Elias T. Krainski** CEMSE, KAUST, Thuwal, Saudi Arabia, **Håvard Rue**

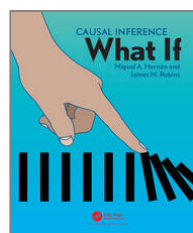
This book provides a comprehensive and practical guide to fitting complex Bayesian survival, longitudinal and joint models using the Integrated Nested Laplace Approximations (INLA) methodology, a powerful and computationally efficient alternative to traditional MCMC methods. Aimed at graduate students, researchers, and applied statisticians in biostatistics, epidemiology, and public health, this book addresses the critical challenge of analyzing high-dimensional and correlated data. It demonstrates how to move beyond the computational limitations of conventional methods, enabling the analysis of sophisticated models that were previously out of reach.

Chapman & Hall
April 2026 : 320pp
Hb: 978-1-041-08769-4 : \$99.99

* For full contents and more information, visit: www.routledge.com/9781041087694

Causal Inference

What If



Miguel A. Hernan Harvard School of Public Health, Boston, Massachusetts, USA, **James M. Robins** Harvard School of Pub Health, Boston, Massachusetts, USA

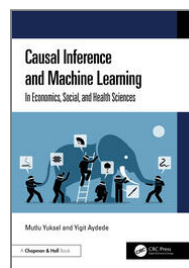
The application of causal inference methods is growing exponentially in fields that deal with observational data. Written by pioneers in the field, this practical book presents an authoritative yet accessible overview of the methods and applications of causal inference. With a wide range of detailed,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

CRC Press
December 2025 : 312pp
Hb: 978-1-420-07616-5 : \$55.99

* For full contents and more information, visit: www.routledge.com/9781420076165

Causal Inference and Machine Learning

In Economics, Social, and Health Sciences



Mutlu Yuksel Dalhousie University, Canada, **Yigit Aydede** Professor, Saint Mary's University

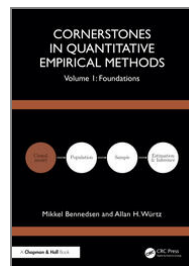
Bridges the gap between modern machine learning methods and the applied needs of economists, public health researchers, and social scientists. Designed with students and practitioners in mind, it introduces machine learning through causal inference. Offers a rigorous yet accessible roadmap for using data to answer real-world policy questions.

Chapman & Hall
December 2025 : 836pp
Hb: 978-1-032-82041-5 : \$120

* For full contents and more information, visit: www.routledge.com/9781032820415

Cornerstones in Quantitative Empirical Methods

Volume 1: Foundations



Mikkel Bennedsen, **Allan Würtz**

Cornerstones in Quantitative Empirical Methods - Volume I: Foundations provides a complete, self-contained path from first principles to modern statistical inference, giving a comprehensive technical foundation for understanding and analyzing data problems using quantitative methods. The first part of the book provides a thorough introduction to probability theory and statistics with focus on techniques and concepts, which are particularly useful for empirical analyses. Building directly on the first part, the second part of the book provides an introduction to estimation theory, hypothesis testing, likelihood theory, and Bayesian methods.

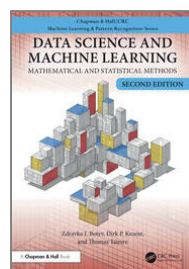
Chapman & Hall
February 2026 : 492pp
Hb: 978-1-032-96772-1 : \$99.99

* For full contents and more information, visit: www.routledge.com/9781032967721

2ND EDITION

Data Science and Machine Learning

Mathematical and Statistical Methods, Second Edition



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

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

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

Chapman & Hall
November 2025 : 758pp
Hb: 978-1-032-48868-4 : \$99.99
eBook: 978-1-003-39117-3

* For full contents and more information, visit: www.routledge.com/9781032488684

Deep-Learning-Assisted Statistical Methods with Examples in R

Tianyu Zhan

Series: Chapman & Hall/CRC Data Science Series

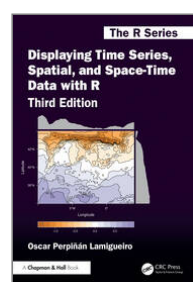
This book explores how deep learning enhances statistical methods for hypothesis testing, point estimation, optimization, interpretation, and other aspects. It uniquely demonstrates leveraging deep learning to improve traditional statistical approaches, showcasing their superior performance in practical applications. This book is a valuable resource for students, practitioners, and researchers integrating statistics and data science techniques to solve impactful real-world problems.

Chapman & Hall
March 2026 : 186pp
Pb: 978-1-041-15843-1 : **\$66.99**
Hb: 978-1-041-15845-5 : **\$190**

* For full contents and more information, visit: www.routledge.com/9781041158431

3RD EDITION

Displaying Time Series, Spatial, and Space-Time Data with R



Oscar Perpinán Lamigueiro ETSIDI-UPM, Madrid, Spain

Series: Chapman & Hall/CRC The R Series

Focusing on the exploration of data with visual methods, "Displaying Time Series, Spatial, and Space-Time Data with R" presents methods and R code for producing high-quality static graphics, interactive visualizations, and animations, of time series, spatial, and space-time data. Practical examples using real-world datasets help you understand how to apply the methods and code. While the first edition primarily focused on static graphics, and the second edition significantly expanded upon interactive elements, this edition has been thoroughly updated with a modern emphasis.

Chapman & Hall
November 2025 : 310pp
Pb: 978-1-032-77920-1 : **\$99.99**
Hb: 978-1-032-77621-7 : **\$280**
eBook: 978-1-003-48538-4

* For full contents and more information, visit: www.routledge.com/9781032779201

2ND EDITION

Dose-exposure-response Modeling

Methods and Practical Implementation



Jixian Wang Celgene International, Switzerland

Series: Chapman & Hall/CRC Biostatistics Series

This thoroughly revised and updated new edition reflects the progress that has been made in dose-exposure-response (DER) modelling. As the title suggests, the new edition covers more topics on dose and dose adjustment. A large part of the book has been rewritten. The new appendix contains non-standard materials used in the book. Applied statisticians and modelers can find details on how to implement new approaches while researchers can find topics for or applications of their work. In addition, students can see how complicated methodology and models are applied to practical situations.

Chapman & Hall
February 2026 : 384pp
Hb: 978-1-032-59625-9 : **\$140**

* For full contents and more information, visit: www.routledge.com/9781032596259

Double Generalized Linear Models

Likelihood and Bayesian Methods



Edilberto Cepeda-Cuervo

Provides an introduction to double generalized linear models (DGLMs), under frequentist and Bayesian frameworks. These models include the class of generalized linear models and compose a unified class of models, where appropriate functions of the mean and dispersion parameters follow linear regression structures that are linear combinations of the explanatory variables.

Chapman & Hall
March 2026 : 160pp
Hb: 978-1-041-16997-0 : **\$140**

* For full contents and more information, visit: www.routledge.com/9781041169970

Empirical Finance

Theory and Application



Oliver Linton, Shaoran Li, Shuyi Ge

Series: Chapman and Hall/CRC Series on Statistics in Business and Economics

This book offers a modern, data-driven introduction to the field of finance, tailored for undergraduate students and practitioners seeking to bridge theory with real-world evidence. In an era defined by abundant data and computational power, this book emphasizes hands-on learning by integrating financial theory, empirical analysis, and practical implementation using Python and R. Each chapter balances intuitive explanations with mathematical rigor, ensuring that readers not only understand key concepts but also learn how to test them with actual data.

Chapman & Hall
April 2026 : 280pp
Hb: 978-1-032-89470-6 : **\$100**

* For full contents and more information, visit: www.routledge.com/9781032894706

Essentials of Statistics for Research



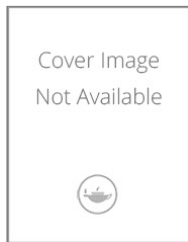
Ken Gerow, Jorge Navarro Alberto

Offers a working introduction to essential statistical methods that uses an accessible conceptual understanding without excessive mathematical details, emphasizes the role of good judgment when choosing analysis approaches and work through many examples to illustrate the dance that a statistical analysis can be. Ultimately, the analysis should serve the science and shed light on the story contained in the data.

Chapman & Hall
December 2025 : 225pp
Pb: 978-1-041-00390-8 : **\$66.99**
Hb: 978-1-041-00393-9 : **\$180**
eBook: 978-1-003-60960-5

* For full contents and more information, visit: www.routledge.com/9781041003908

Evolutionary Factor Analysis



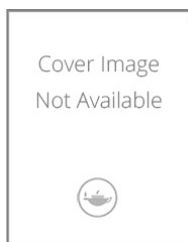
Giovanni Motta Maastricht University, The Netherlands

This book introduces factor analysis methods for the study of multivariate stochastic processes whose structure evolves over time. It introduces the theory of factor analysis and evolutionary stochastic processes and combines that to study evolutionary factor models. The book includes many real examples to illustrate applications from such fields as macroeconomics, finance, neuroscience, communication, and psychology. MATLAB® and R code is included throughout the book for implementation of the methods.

Chapman & Hall
August 2026 : 256pp
Hb: 978-1-466-50592-6 : \$120

* For full contents and more information, visit: www.routledge.com/9781466505926

Experimental Design for Data Science and Engineering



V. Roshan Joseph Georgia Institute of Technology

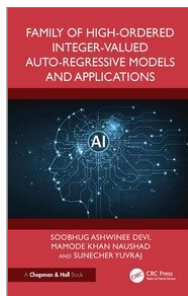
Series: *Chapman & Hall/CRC Texts in Statistical Science*

The book describes efficient statistical methods for making the experiments cheaper and computations faster for extracting valuable information from data and help identify discrepancies in the theory. It also includes recent advances in experimental designs for dealing with large amounts of observational data. Traditionally the design and analysis of physical and computer experiments are treated differently, but this book attempts to create a unified framework using Gaussian process models. A wide variety of topics are covered -- from designs for interpolating or integrating simple functions to designs that are useful for optimizing and calibrating complex computer models.

Chapman & Hall
March 2026 : 302pp
Hb: 978-1-041-11752-0 : \$99.99

* For full contents and more information, visit: www.routledge.com/9781041117520

Family of High-Ordered Integer-Valued Auto-Regressive Models and Applications



Ashwinee Devi Soobhug , Naushad Mamode Khan , Sunecher Yuvraj

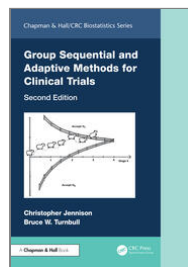
This book tackles the complexities of integer-valued time series analysis, focusing on over-dispersion, excess zeros, and non-stationarity. It explores high-ordered INAR(p) models with diverse thinning mechanisms and innovation distributions, finding CML superior for inference. The target audience includes researchers, statisticians, and practitioners working with count data and time series analysis in fields like econometrics, finance, epidemiology, and criminology.

Chapman & Hall
March 2026 : 148pp
Hb: 978-1-041-15055-8 : \$110

* For full contents and more information, visit: www.routledge.com/9781041150558

2ND EDITION

Group Sequential and Adaptive Methods for Clinical Trials



Christopher Jennison University of Bath , England, UK,
Bruce W. Turnbull Cornell University, Ithaca, New York, USA

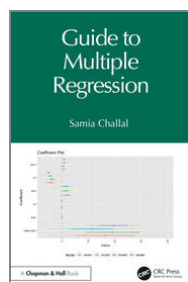
Series: *Chapman & Hall/CRC Biostatistics Series*

This comprehensive second edition reflects the remarkable evolution in adaptive clinical trial methodology over the past two decades. Since publication of the first edition, these approaches have transformed from theoretical concepts to widely accepted practices, now endorsed by regulatory authorities, including formal FDA guidance.

Chapman & Hall
December 2025 : 648pp
Hb: 978-1-584-88847-5 : \$110
eBook: 978-1-584-88848-2

* For full contents and more information, visit: www.routledge.com/9781584888475

Guide to Multiple Regression



Samia Challal

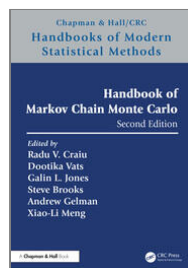
This book is intended to equip the reader with concept knowledge, on multilinear regression methods, and develop technical skills, while solving problems with the R programming language. The goal is not to become an expert in both directions. It is rather an incentive to do research on advanced models in data analysis once confidence is gained with the practice of some methods. We believe that using a computer is the only practical means of performing a linear or multilinear regression on a data set of even moderate size. Therefore, our purpose is to make these connections between theory, technology, and applications, as clear as possible.

Chapman & Hall
December 2025 : 240pp
Hb: 978-1-041-01891-9 : \$100
eBook: 978-1-003-61683-2

* For full contents and more information, visit: www.routledge.com/9781041018919

2ND EDITION

Handbook of Markov Chain Monte Carlo



Edited by **Radu V. Craiu , Dootika Vats , Galin Jones , Steve Brooks , Andrew Gelman , Xiao-Li Meng**

Series: *Chapman & Hall/CRC Handbooks of Modern Statistical Methods*

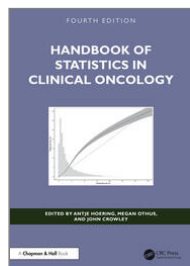
Thoroughly revised and expanded second edition of the Handbook of Markov Chain Monte Carlo reflects the dramatic evolution of MCMC methods since the publication of the first edition. With the addition of two new editors, Radu V. Craiu and Dootika Vats, this comprehensive reference now offers deeper insights into the theoretical foundations and cutting-edge developments that are reshaping the field.

Chapman & Hall
March 2026 : 680pp
Hb: 978-1-032-59157-5 : \$220

* For full contents and more information, visit: www.routledge.com/9781032591575

4TH EDITION

Handbook of Statistics in Clinical Oncology



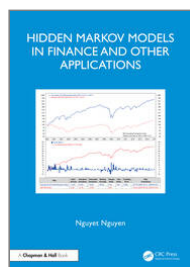
Edited by **John Crowley** Cancer Research and Biostatistics, Washington, USA, **Antje Hoering** Fred Hutchinson Cancer Research Center, USA, **Megan Othus** Fred Hutchinson Cancer Center, USA

Since the third edition of this Handbook, significant advances have transformed the field of oncology. Most cancer types now offer multiple treatment options, with immunotherapies and targeted therapies becoming the standard of care. Master protocols, which allow the addition of new treatment arms without requiring new protocols, have gained popularity—not only to expedite the approval process for new therapies but also to ensure that patients receive the most beneficial treatments tailored to their individual needs. This revised edition features contributions from leading cancer trial statisticians, providing expert insights into modern oncology trial design and methodology.

Chapman & Hall
December 2025 : 584pp
Hb: 978-1-032-59695-2 : \$210

* For full contents and more information, visit: www.routledge.com/9781032596952

Hidden Markov Models in Finance and other Applications



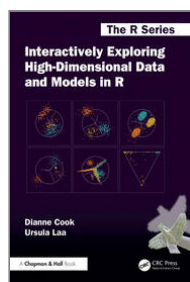
Nguyet Nguyen

This book provides fundamental concepts and algorithms of the Hidden Markov Model (HMM) and its applications in finance, such as stock price predictions, and other areas such as speech recognition. Their wide range uses make HMMs very attractive to researchers in both academia and industry. Only a basic knowledge of probability, statistics, and programming is necessary, and readers will learn the concepts and algorithms of the HMM through definitions, real-life examples, and R code.

Chapman & Hall
December 2025 : 208pp
Hb: 978-1-041-00371-7 : \$120

* For full contents and more information, visit: www.routledge.com/9781041003717

Interactively Exploring High-Dimensional Data and Models in R



Dianne Cook Monash University, Australia, **Ursula Laa** BOKU University, Vienna

Series: Chapman & Hall/CRC The R Series

High-dimensional data visualisation is valuable for understanding dimension reduction methods, unsupervised and supervised classification. This book is organised into these three topics, following overview and introductory chapters. The dimension reduction chapters cover principal component analysis and nonlinear dimension reduction. The chapters on cluster analysis cover hierarchical and k-means algorithms, model-based and self-organising maps, and finish with ways to communicate results and how to compare different results. The chapters on classification cover linear discriminant analysis, tree and forest algorithms, support vector machines and neural networks.

Chapman & Hall
December 2025 : 272pp
Pb: 978-1-032-74609-8 : \$64.99
Hb: 978-1-032-74844-3 : \$160

* For full contents and more information, visit: www.routledge.com/9781032746098

Long Memory Time Series Analysis



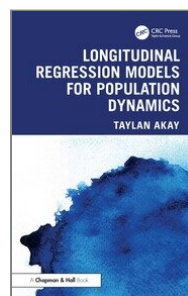
Gnanadarsha Sanjaya Dissanayake, **Hassan Doosti**

Long Memory Time Series Analysis is a comprehensive text which covers long memory time series, with the different long memory time series discussed. The authors cover modelling and forecasting using various time series, deploying traditional and machine learning methodologies. The core audience is the students attending advance studies in Time Series. It can also be used by researchers and data scientists involved in utilizing time series analysis in a modern context.

Chapman & Hall
February 2026 : 170pp
Pb: 978-1-032-62699-4 : \$66.99
Hb: 978-1-032-62696-3 : \$190

* For full contents and more information, visit: www.routledge.com/9781032626994

Longitudinal Regression Models for Population Dynamics



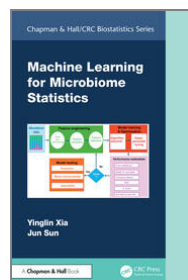
Taylan Akay

This book is an invaluable resource for all researchers interested in understanding practical applications of longitudinal regression methods. The book aims to equip the readers with practical applications of longitudinal regression with case studies derived from administrative datasets such as Australian Government's Person Level Integrated Data Asset (PLIDA) datasets. The primary audience for this book comprises social researchers and academics who engage in advanced analytical research utilizing longitudinal datasets across a variety of domains, including income, employment, health, social security, and education.

Chapman & Hall
March 2026 : 172pp
Pb: 978-1-032-98661-6 : \$66.99
Hb: 978-1-032-98665-4 : \$190

* For full contents and more information, visit: www.routledge.com/9781032986616

Machine Learning for Microbiome Statistics



Yinglin Xia, **Jun Sun** Department of Medicine, University of Illinois Chicago, USA

Series: Chapman & Hall/CRC Biostatistics Series

This book aims to address the challenges of machine learning statistics, emphasize the importance of performance valuation by appropriate metrics and independent data, and describe several important concepts of machine learning statistics, such as feature engineering and overfitting. It comprehensively reviews commonly used and newly developed machine learning models for microbiome research and provides the step-by-step procedures to perform machine learning microbiome data, including feature engineering, algorithm selection and optimization, performance evaluation and model testing. It comments the benefits and limitations of using machine learning for microbiome statistics.

Chapman & Hall
December 2025 : 736pp
Hb: 978-1-041-00524-7 : \$180

* For full contents and more information, visit: www.routledge.com/9781041005247

Mastering Clinical Data Management

The Background, Experience, and Soft Skills Needed to Succeed in CDM



Michael Goedde

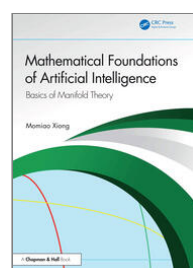
99.9% of human beings interact with the Clinical Research industry throughout their lives however very few understand the effort to bring a new medical product to patients in need and an even smaller number understand the pivotal role that CDM professionals play in this endeavor. Ranging from sharing hands-on experiences to providing examples of how to propel one's CDM career, Mastering Clinical Data Management: The Background, Experience, and Soft Skills Needed to Succeed in CDM is a glimpse of the author's three decades long experience in the field and aims to provide valuable insights for all levels of CDM professionals and those that might consider a career in CDM.

Chapman & Hall
March 2026 : 224pp
Hb: 978-1-041-09072-4 : \$99.95

* For full contents and more information, visit: www.routledge.com/9781041090724

Mathematical Foundations of Artificial Intelligence

Basics of Manifold Theory



Momiao Xiong University of Texas School of Public Health, USA

Mathematical Foundations of Artificial Intelligence: Basics of Manifold Theory is the first volume in a two-part series. Together, they establish a unifying mathematical framework based on smooth manifold theory and Riemannian geometry. Unlike traditional texts, this book combines rigor with intuition, integrating formal theory, computational methods, and interdisciplinary insights and is ideal for graduate students and professionals in mathematics, statistics, computer science, artificial intelligence, physics, bioinformatics, and biomedical sciences.

Chapman & Hall
February 2026 : 424pp
Hb: 978-1-041-07625-4 : \$140

* For full contents and more information, visit: www.routledge.com/9781041076254

Microbiome Statistics Set



Yinglin Xia, Jun Sun Department of Medicine, University of Illinois Chicago, USA

Series: Chapman & Hall/CRC Biostatistics Series

Microbiome Statistics Set addresses the statistical analysis of correlation, association, interaction, and composition in microbiome research and talks about the challenges of machine learning statistics with an emphasis on the importance of performance valuation by appropriate metrics and independent data. This set consists of 15 chapters on applied microbiome statistics and 19 chapters on machine learning for microbiome statistics and is an excellent reference for researchers, students, academics and data analysts in the field.

Chapman & Hall
January 2026 : 1192pp
Hb: 978-1-041-22013-8 : \$300

* For full contents and more information, visit: www.routledge.com/9781041220138

Monty the Null Hippopotamus

Exploring Statistical Foundations Through Simulation



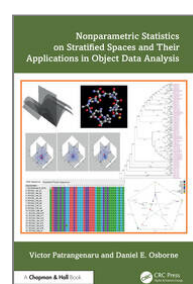
Robert B. Gramacy Virginia Tech Department of Statistics, USA

Emphasizes computational thinking, conceptual understanding through hands-on coding examples. Aims to make statistics accessible and engaging by leveraging modern computing power rather than relying on memorizing inscrutable formulas.

Chapman & Hall
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Nonparametric Statistics on Stratified Spaces and Their Applications in Object Data Analysis



Victor Patrangenaru Florida State University, Tallahassee, USA, **Daniel E. Osborne** Florida Agricultural and Mechanical University, USA

This book, a follow-up of Nonparametric Statistics on Manifolds and Their Applications to Object Data Analysis where the reader was introduced to data analysis on manifolds, is expanding the subject of data analysis on object spaces, to the case of metric spaces that have a smooth structure on an open dense subset only, that is comprised of manifolds whose boundaries are made of lower dimensional manifolds in this filtration. Such object spaces are known as stratified spaces. Key examples of complex data from which one extracts data representable as points on a stratified space, and a review on data analysis on manifolds, are provided.

Chapman & Hall
December 2025 : 208pp
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Practical Statistics in Medicine with R

Understanding Fundamental Concepts through Examples



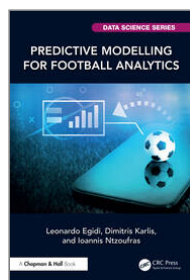
Konstantinos I. Bougioukas Aristotle University of Thessaloniki, Greece.

Whether you're new to statistical analysis or looking to enhance your analytical skills with the R programming language, this textbook provides comprehensive and practical guidance for understanding fundamental statistical concepts through healthcare examples in R. It is an ideal resource for students, educators, and healthcare researchers seeking a step-by-step first approach to effectively applying R in the analysis of healthcare data.

Chapman & Hall
May 2026 : 592pp
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Hb: 978-1-032-60058-1 : \$220

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Predictive Modelling for Football Analytics



Leonardo Egidi , Dimitris Karlis , Ioannis Ntzoufras

Series: Chapman & Hall/CRC Data Science Series

Discusses well-known models and main computational tools for the football analytics domain. Introduces footBayes R package that accompanies the reader through all examples proposed in the book.

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Prescriptions for Quant Traders Using R

Videos & Scripts



Jason Guevara , Oskars Linares

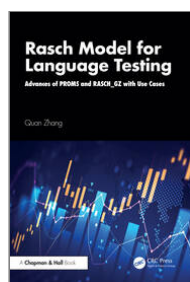
Unlock the full potential of quantitative trading with Prescriptions for Quant Traders Using R—a practical, hands-on guide for turning data into trading decisions. This book is written for quantitative traders, financial analysts, and data scientists who want more than theory. Organized into ten structured parts, it delivers step-by-step “prescriptions” using R—script-driven tasks that solve real-world trading problems. Each prescription is designed to be immediately actionable, so readers can move from concept to implementation without guesswork. What makes this book different is its clarity, utility, and its link to online video walk-throughs of R scripts.

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Rasch Model for Language Testing

Advances of PROMS and RASCH_GZ with Use Cases



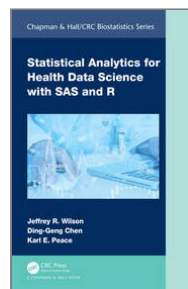
Quan Zhang

This book focuses on the crucial theme of modern test development and analysis, specifically focusing on bridging the gap between theoretical frameworks and practical applications. This book could be used by practitioners in the fields of applied linguistics, applied psychology, language testing, education management, and researchers working on language testing methods.

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Jeffrey Wilson , Ding-Geng Chen , Karl E. Peace

Georgia Southern University, USA

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Statistics for Biological Networks

How to Infer Networks from Data



Ernst Wit USI Università della Svizzera italiana, Switzerland, **Veronica Vinciotti** Brunel University, Middlesex, UK, **Vilda Purutcuoglu** Middle East Technical University, Ankara, Turkey

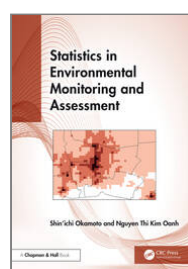
Series: Chapman & Hall/CRC Interdisciplinary Statistics

An introduction to a new paradigm in social, technological, and scientific discourse, this book presents an overview of statistical methods for describing, modeling, and inferring biological networks using genomic and other types of data. It covers a large variety of modern statistical techniques, such as sparse graphical models, state space models, Boolean networks, and hidden Markov models. The authors address gene transcription data, microRNAs, ChIP-chip, and RNAi data.

Chapman & Hall
August 2026 : 320pp
Hb: 978-1-439-84147-1 : **\$79.95**

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Statistics in Environmental Monitoring and Assessment



Shin'ichi Okamoto , Nguyen Thi Kim Oanh

The book details how statistics plays an essential role in every step of an environmental monitoring and assessment program, from the sampling design to the data management, and data analysis methods to extract meaningful information for environmental quality management. Primarily intended for graduate students in environmental sciences who wish to use statistics as a research tool, it will also benefit researchers who are interested in applications of statistical methods for designing environmental monitoring programs and analysis of environmental data to assess the status of various environmental matrices. This book is organised in three parts.

Chapman & Hall
January 2026 : 468pp
Hb: 978-1-032-98136-9 : **\$160**

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Survival Analysis

Principles and Applications in Clinical Trials and Beyond



Song Yang National Heart, Lung, and Blood Institute, National Institutes of Health, Clarksburg, MD, USA

Series: Chapman & Hall/CRC Texts in Statistical Science

Survival Analysis provides an up-to-date and reader-friendly account of topics progressing from the log-rank test, stratified analysis, and Cox regression to more advanced analyses. Heuristic arguments are used, leaving rigorous results to the appendices. The book dedicates separate chapters to critical topics like clinical trials basics, modeling and analysis for non-proportional hazards, testing and summarizing treatment effects, trial design and interim monitoring, and the analysis of terminal and non-terminal events. A separate chapter is also devoted to detailed martingale heuristics beyond what is typically offered in other texts.

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Nicholas J. Radcliffe

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Test-driven data analysis is the synthesis of ideas from test-driven development of software to data-intensive work including data science, data analysis, and data engineering. It is a methodology for improving the quality of data and of analytical pipelines and processes. It can be thought of as data analysis as if the answers actually matter. Extensive checklists are provided that can be used to improve quality before, during, and after analysis. Test-driven data analysis can be thought of as a sibling to reproducible research, with similar concerns, but greater emphasis on automated testing, and less requirement for a human to reproduce results.

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April 2026 : 432pp
Hb: 978-1-032-89715-8 : \$79.99

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The Strategic Department Chair

Leading for Academic Research Success



Lisa Chasan-Taber

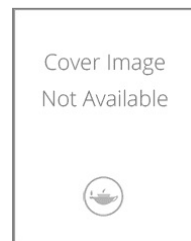
Provides techniques not only to cultivate a department that is successful in research, but to sustain that level of productivity. The book offers Department Chairs a valuable resource for negotiating the real-life challenges that they will face as academic leaders.

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Hb: 978-1-032-94535-4 : \$180

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Theory of Factorial Experiments

Modern Methods, Applications, and R Implementation



Dilip Kumar Ghosh

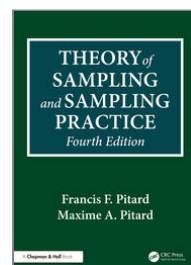
This book introduces modern methods for estimating and analysing factorial experiments, including a new Hadamard matrix-based technique for $2n_2 \times n_2$ designs. Covering confounded, asymmetrical, and super-saturated designs, it demonstrates the use of factorial experiments in constructing various block designs. It also explores the analysis of variance for asymmetrical factorial designs and confounded experiments, including single and double confounding schemes, offering a practical guide to implementing these methods in RStudio, including examples and computation of ANOVA tables. This book is for graduate students, academic researchers, and applied statisticians.

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Francis F. Pitard , Maxime A. Pitard

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December 2025 : 708pp
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2ND EDITION

Time Series

A Data Analysis Approach Using R



Robert H. Shumway , David S. Stoffer University of Pittsburgh, Pennsylvania, USA

Series: Chapman & Hall/CRC Texts in Statistical Science

The goals of this second edition are to develop the skills and an appreciation for the richness and versatility of modern time series analysis as a tool for analyzing dependent data. An expanded feature of this edition is the inclusion of many nontrivial data sets illustrating the wealth of potential applications to problems in the biological, physical, and social sciences as well as in economics and medicine. The book can be used for a one semester/quarter introductory time series course where the prerequisites are an understanding of linear regression, basic calculus-based probability and statistics skills, and math skills at the high school level.

Chapman & Hall
February 2026 : 292pp
Pb: 978-1-041-03164-2 : \$89.95
Hb: 978-1-041-03161-1 : \$240

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Time Series Decomposition and Seasonal Adjustment



Ping Zong

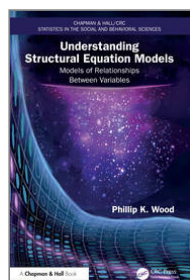
This book provides an in-depth examination of time series decomposition and seasonal adjustment, focusing on the X-13ARIMA-SEATS and TRAMO-SEATS methods. Seasonal adjustment removes distortions such as seasonal fluctuations and holiday effects from economic indicators (eg, GDP, CPI), enabling clearer insights into underlying trends, cycles, and shocks. These tools are vital for sound policymaking, accurate forecasting, and reliable international comparisons. Intended for students, researchers, staff at national statistical agencies, central banks, and financial institutions, the book equips readers with methodological and practical tools to navigate evolving economic data landscapes.

Chapman & Hall
March 2026 : 360pp
Hb: 978-1-041-20461-9 : \$140

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Understanding Structural Equation Models

Models of Relationships Between Variables



Phillip K. Wood

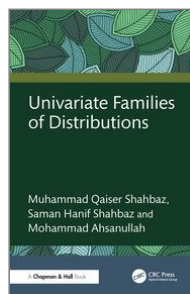
Series: Chapman & Hall/CRC Statistics in the Social and Behavioral Sciences

Designed for graduate students, early-career researchers, and advanced undergraduates who wish to move beyond plug-and-play SEMs to a deeper, more philosophical and data-conscious understanding. Its careful balance of theory, worked examples, and emphasis on skepticism, will help its audience build confidence in using SEMs flexibly and responsibly for a broad range of social and behavioral science research.

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December 2025 : 402pp
Pb: 978-1-032-96242-9 : \$74.99
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Univariate Families of Distributions



Muhammad Qaiser Shahbaz , Saman Hanif Shahbaz , Mohammad Ahsanullah

This book offers a comprehensive exploration of popular continuous distribution families, including Exponentiated, Beta, Kumaraswamy, T-X, and Transmuted. It details methods for developing new distribution families, their properties, and inference. Practical applications of the members of families are enhanced by R code for maximum likelihood estimation. The target audience includes graduate and postgraduate statistics students, research fellows in distribution theory, and readers in allied fields like mathematics and physics.

Chapman & Hall
March 2026 : 268pp
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