

Routledge

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July - December 2026
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Software Networking & Security and Statistics





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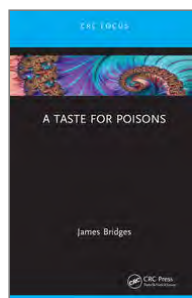
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Contents

Chemistry	2
Computer Science	10
Materials Science	41
Mathematics	42
Physics	52
Software Networking & Security	62
Statistics	75
Index	84

A Taste for Poisons



James Bridges

Series: Global Science Education

Everything we eat, drink and breathe comprises chemicals, both natural and synthetic. How do we navigate this? The first principle of toxicology is that every chemical is toxic if the dose and duration of exposure is high enough. This book sets out assessments of situations when human and animal health is affected by drugs, biocides, food additives and cosmetics, based on the author's work as a toxicologist.

CRC Press

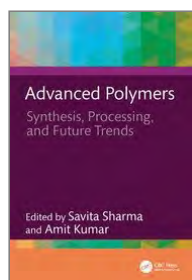
June 2026 : 124pp

Hb: 978-1-041-30260-5 : £55.99

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Advanced Polymers

Synthesis, Processing, and Future Trends



Edited by Savita Sharma, Amit Kumar

This book uniquely bridges the entire spectrum from foundational principles to advanced synthesis, processing, and characterization techniques, all the way through to diverse real-world applications across biomedicine, electronics, aerospace, and sustainability. Its distinctive strength lies in combining up-to-date coverage of emerging areas such as biodegradable polymers, nanocomposites, self-healing materials, and AI-enabled polymer research with a strong emphasis on practical processing methods and industrial relevance. This holistic and interdisciplinary approach sets it apart from traditional texts that often treat these topics in isolation.

CRC Press

October 2026 : 328pp

Pb: 978-1-041-20754-2 : £52.99

Hb: 978-1-041-20804-4 : £190

* For full contents and more information, visit: www.routledge.com/9781041207542

AI for Biomedical Research

Volume 1: From Idea to Analysis



Molly Klotz

Artificial intelligence is transforming every aspect of biomedical research practice. Researchers face a fragmented landscape of tools, evolving ethical requirements, emerging regulations, and rapidly shifting best practices. The first of two volumes, this book provides a comprehensive treatment of artificial intelligence across the complete research lifecycle, from initial ideation through analysis, quality assurance, dissemination, and long-term impact.

CRC Press

November 2026 : 264pp

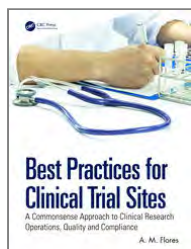
Pb: 978-1-041-32339-6 : £52.99

Hb: 978-1-041-32342-6 : £200

* For full contents and more information, visit: www.routledge.com/9781041323396

Best Practices for Clinical Trial Sites

A Commonsense Approach to Clinical Research Operations, Quality and Compliance



A. M. Flores

The author shares their extensive knowledge of clinical trials operations, research compliance and quality assurance with individuals interested in pursuing a career in providing access to clinical trials to patients as part of medical care. Well-designed and conducted clinical trials are our best chance to develop safe and effective treatments, and building a successful clinical trials program is important in order to evaluate new treatments and provide access to the community. This manual describes the different aspects of clinical trial investigator sites to assist in conducting clinical trials in compliance with all applicable laws, regulations, standards and guidance.

CRC Press

October 2026 : 208pp

Pb: 978-1-041-34880-1 : £52.99

Hb: 978-1-041-34888-7 : £200

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Brain Drug Delivery for the Treatment of Neurological Disorders



Edited by Touraj Ehtezazi

Series: Drugs and the Pharmaceutical Sciences

Although a wealth of knowledge is available on how best to reduce the burden of stroke and infectious neurological diseases, intervention and reduction of the burden of other non-communicable neurological disorders is much more complex and requires the development of new and more effective treatments and prevention measures. This book addresses this demand by collecting key elements required in developing novel treatments for non-communicable neurological disorders. Chapters include the blood-brain barrier's role in the treatment of neurological disorders, physiological barriers for drug delivery to brain, novel drug delivery systems and industrial production and regulatory aspects.

CRC Press

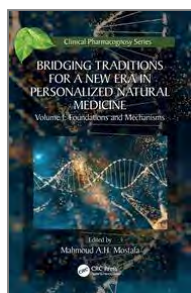
July 2026 : 424pp

Hb: 978-1-032-77191-5 : £200

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Bridging Traditions for a New Era in Personalized Natural Medicine

Volume 1 Foundations and Mechanisms



Edited by Mahmoud A. H. Mostafa

Series: Clinical Pharmacognosy Series

This book series explores the intersection of phytotherapy and personalized medicine. It addresses the scientific foundations, clinical applications, and emerging technologies related to the use of natural products in precision healthcare. Each volume in the series is peer-reviewed and structured to support postgraduate education, research, and global academic engagement.

CRC Press

August 2026 : 426pp

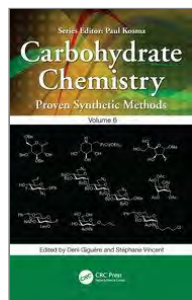
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Carbohydrate Chemistry

Proven Synthetic Methods, Volume 6



Edited by **Denis Giguère** Université Laval 1045, av. de la Médecine Québec, Québec G1V0A6 Canada, **Stéphane P. Vincent** Université de Namur, Département de Chimie

Series: *Carbohydrate Chemistry: Proven Synthetic Methods*

The Proven Synthetic Methods Series address the concerns many chemists have on irreproducibility of synthetic protocols, lack of identification and characterization data for new compounds, and inflated yields reported in chemical communications—trends that have recently become a serious problem. It is unique in that an independent checker has verified the experimental parts involved by repeating the protocols or using the methods. Featuring contributions from world-renowned experts and overseen by a highly respected series editor, this latest volume compiles reliable protocols for the preparation of intermediates for carbohydrate synthesis or other uses in the glycosciences.

CRC Press
September 2026 : 240pp
Pb: 978-0-367-49574-9 : **£52.99**
Hb: 978-0-367-37026-8 : **£200**

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Chemistry and Biology of Heterocycles: Two Volume Set



Edited by **Devalina Ray**, **Bimal Krishna Banik** PMU, Saudi Arabia

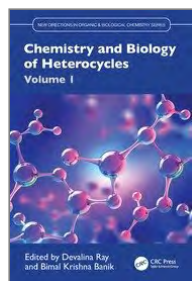
Series: *New Directions in Organic & Biological Chemistry*

This Two Volume Set covers the exceptional capabilities of N-heterocyclic scaffolds for use in effective drugs. Volume 1 explores the direct and viable synthetic strategies of these molecules, and numerous methods reveal the general synthesis and application of N-heterocyclic compounds through conventional as well as modified approaches. Volume 2 examines the synthetic landscape of heterocycles, prioritizing the development of robust methodologies, mechanistic insights, and late-stage modifications. Given their role in modulating anticancer, antimicrobial, and anti-inflammatory and many other pathways, these scaffolds remain central to medicinal chemistry.

CRC Press
October 2026 : 896pp
Hb: 978-1-041-39825-7 : **£400**

* For full contents and more information, visit: www.routledge.com/9781041398257

Chemistry and Biology of Heterocycles Volume 1



Edited by **Devalina Ray**, **Bimal Krishna Banik** PMU, Saudi Arabia

Series: *New Directions in Organic & Biological Chemistry*

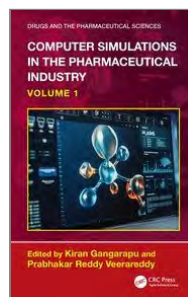
The exceptional capability of N-heterocyclic scaffolds to function as biomimetics and active pharmacophores has resulted in modulating their structure, reactivity and formulation for effective drugs. The direct and viable synthetic strategies of these molecules are valuable features. Numerous methods revealed the general synthesis and application of N-heterocyclic compounds through conventional as well as modified approaches. Additionally, the advent of combinatorial and medicinal chemistry for the synthesis of new heterocyclic compounds for drug discovery have added a new essence to existing protocol.

CRC Press
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Computer Simulations in the Pharmaceutical Industry

Volume 1



Edited by **Kiran Gangarapu**, **Prabhakar Reddy Veerareddy**

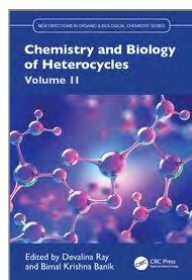
Series: *Drugs and the Pharmaceutical Sciences*

The application of modelling and simulation has extended beyond PK/PD prediction of clinical trial outcomes, by defining regulatory strategy as well as optimization of therapeutic candidates. Further, regulatory agencies are accepting modeling and simulations for approval in special populations, drug-drug interactions, and dosing regimen changes. This volume provides a comprehensive coverage of drug design, chemoinformatics, molecular modeling, and computer-aided formulation development. Computer simulations are crucial in the pharmaceutical industry, accelerating drug discovery and development by predicting drug behavior, optimizing systems, so reducing the need for animal testing.

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Pb: 978-1-041-12837-3 : **£49.99**
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Chemistry and Biology of Heterocycles Volume 2



Edited by **Devalina Ray**, **Bimal Krishna Banik** PMU, Saudi Arabia

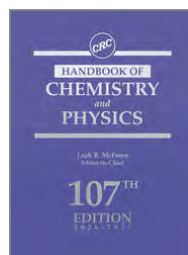
Series: *New Directions in Organic & Biological Chemistry*

Heterocyclic systems are defined by the integration of one or more heteroatoms within a cyclic framework and serve as the structural foundation for a vast array of natural products, clinical pharmaceuticals, and advanced functional materials. This work examines the landscape of heterocycles, prioritizing the development of methodologies, insights, and late-stage modifications. Given their role in modulating anticancer, antimicrobial, and anti-inflammatory and many other pathways, these scaffolds remain central to medicinal chemistry. By elucidating the interplay between chemical architecture and pharmacological efficacy, this study promotes the next-generation of therapeutic agents.

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Series: *CRC Handbook of Chemistry and Physics*

High Quality Science requires High Quality Data! Today, more than ever, the CRC Handbook of Chemistry and Physics is critical in ensuring that researchers, educators, and students have the highest quality data for chemical compounds and physical particles. Available both in print and online, the Handbook covers 390 chemistry, physics, and related subjects organized in easy-to-find, well-organized tables. Every year, new reported data and new scientific areas are added, making the Handbook the largest comprehensive physical science data source available anywhere.

CRC Press
June 2026 : 1682pp
Hb: 978-1-041-19462-0 : **£205**

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Development of Scientific Research Projects

Lifecycle Approach



Humberto Vega-Mercado

Offers high school and college students and their instructors a textbook that provides guidance on a number of practical issues, including how to identify potential projects, develop a project, how to design experiments, collect and document data, analyze data, and how to prepare reports, posters and oral presentation of scientific research projects. Also, serves as a reference handbook to scientists and managers who routinely design and execute experiments.

CRC Press

November 2026 : 88pp

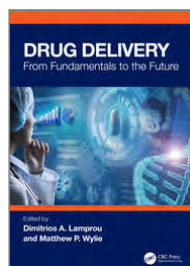
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Drug Delivery

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

June 2026 : 600pp

Pb: 978-1-032-77235-6 : **£52.99**

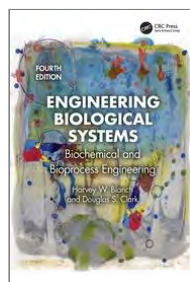
Hb: 978-1-032-77319-3 : **£96.99**

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4TH EDITION

Engineering Biological Systems

Biochemical and Bioprocess Engineering



Harvey W. Blanch University of California, Berkeley,
Douglas S. Clark University of California, Berkeley

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CRC Press

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Fifty Fascinating Molecules from A to Z

Volume 1



Simon Cotton University of Birmingham, UK

Fifty Fascinating Molecules From A to Z, Volume 1 follows on from the author's earlier Every Molecule Tells a Story and Every Molecule Matters, and relates the stories of a wide range of molecules. They encompass familiar names - medicines including aspirin and morphine; flavourings such as menthol and vanilla; and substances of abuse like cocaine and methamphetamine. But there are the unexpected, like the poisons that crop in the stories of James Bond; the molecules that give chillies and mustard their particular charm; the polymers that are part of everyday life - polythene, nylon and terylene; and other everyday molecules, such as water, a substance that so many take for granted.

CRC Press

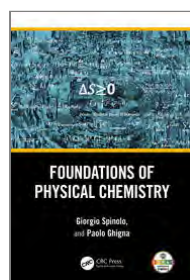
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Foundations of Physical Chemistry



Giorgio Spinolo, **Paolo Ghigna**

This book tries to lighten the difficulties of learners by focalizing in few areas of Physical Chemistry and approaching these areas with extensive and in-depth explanations combined with an easy-to-read style of presentation.

CRC Press

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Edited by **Graham P. Bunn** President, GB Consulting LLC, PA, USA

Series: *Drugs and the Pharmaceutical Sciences*

This Bundle brings together three books on GLP regulations: Good Laboratory Practice for Nonclinical Studies, Good Clinical Practices in Pharmaceuticals, and the new Eighth Edition of Good Manufacturing Practices for Pharmaceuticals. It is a valuable resource for those learning about good laboratory, clinical, and manufacturing practices.

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This book provides insight into the world of pharmaceutical quality systems and the key elements that must be in place to change the business and organizational dynamics from task-oriented procedure-based cultures to truly integrated quality business systems that are self-detecting and correcting. Chapter flow has been changed to adopt a quality systems organization approach, and supporting chapters have been updated based on current hot topics including the impact of the worldwide supply chain complexity and current regulatory trends.

CRC Press
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Hb: 978-1-041-00249-9 : £190
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Green Chemistry

Principles, Processes, and Pathways



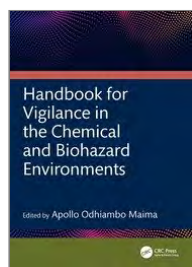
Edited by **Avneet Kaur**, **Sukhvinder Singh Purewal** Chandigarh University, **Marcelo Francoisa**, **Ashutosh Kumar Rai**, **Muhammad Irfan**

This book is a complete guide to the science and practice of sustainable chemistry. It explains how chemicals can be designed, produced, and used in ways that reduce harm to humans and the environment. The book combines fundamental concepts, practical applications, and industrial aspects, making it a valuable resource for students, researchers, and professionals worldwide.

CRC Press
July 2026 : 304pp
Hb: 978-1-041-07857-9 : £115

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Handbook for Vigilance in the Chemical and Biohazard Environments



Edited by **Apollo Odhiambo Maima**

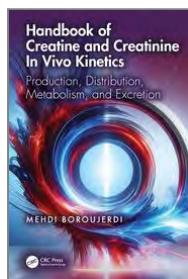
Assessment and management of chemical and biohazard risks requires an understanding of the risks in the laboratory, environment and in the community. This handbook provides a guide on best management practices to help prevent costly oversights and dangers in practice, industrial and scientific settings. It offers tools to actively avoid ill effects by addressing complacency, good laboratory ethic, and proactive strategies to minimize risk. It examines the safety culture of chemicals in a laboratory setting, simultaneously serving as a proactive management exercise and helping to prevent costly oversights and dangers in practice.

CRC Press
May 2026 : 396pp
Hb: 978-1-041-04852-7 : £175
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Handbook of Creatine and Creatinine In Vivo Kinetics

Production, Distribution, Metabolism, and Excretion



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

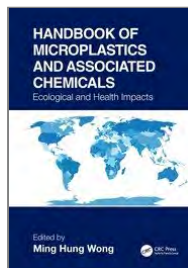
The conceptual basis to summarize and predict the in vivo behavior and the related mathematical descriptions and models of creatine and creatinine are currently based on the principles and the methodologies of pharmacokinetics and pharmacodynamics. Most in vivo kinetic analyses and models of creatine 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
May 2026 : 338pp
Pb: 978-1-032-99528-1 : £52.99
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Handbook of Microplastics and Associated Chemicals

Ecological and Health Impacts



Edited by **Ming Hung Wong** The Education University of Hong Kong, China

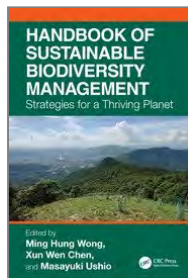
This volume explores the pervasive issue of microplastics and the associated chemicals such as bisphenol A and phthalates in our environment and their implications for various living organisms, including humans. The handbook format address the multifaceted nature of microplastic pollution. It presents the challenges posed by microplastics and delves into existing policies and innovative solutions for mitigating their impact. It provides actionable recommendations for policymakers, environmental advocates and industries aimed at reducing plastic pollution. Featuring case studies and practical examples, the book highlights the real-world implications of microplastic pollution.

CRC Press
July 2026 : 520pp
Hb: 978-1-041-06140-3 : £175

* For full contents and more information, visit: www.routledge.com/9781041061403

Handbook of Sustainable Management of Biodiversity

Strategies for a Thriving Planet



Edited by **Ming Hung Wong** The Education University of Hong Kong, China, **Xun Wen Chen**, **Masayuki Ushio**

Mounting perils posed by climate change, habitat degradation, pollution, and overexploitation jeopardize numerous species, including microbes. This book strives to shed light on the pressing necessity for sustainable biodiversity practices that safeguard our planet's natural legacy. By delving into diverse strategies, scientific paradigms, and case studies, the authors reveal how holistic approaches to biodiversity can cultivate flourishing ecosystems wherein wildlife and human societies coexist harmoniously. This approach sets the book apart from others and presents the tools and knowledge needed to ensure the resilience and thriving of ecosystems for future generations.

CRC Press
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Heterocyclic Compounds in Organic Chemistry

Sandeep Kumar

This book examines heterocyclic compounds with focus on classification and structural characteristics. Chapters address synthesis methods for five-membered and six-membered heterocycles including pyrrole, furan, thiophene, pyridine, indole, quinoline, and isoquinoline. The book covers electrophilic and nucleophilic substitution reactions with detailed mechanisms. It discusses chemical properties including halogenation, nitration, reduction, and oxidation. This title has been co-published with Manakin Press. T&F does not sell or distribute the print editions in Bangladesh, Bhutan, India, Nepal, Pakistan, and Sri Lanka.

CRC Press
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Innovative Eco-processes Converting Biomass to Value-added Products

Ghal Abdel Moein Nawwar , Hoda Sabry Othman

Series: Green Chemical Innovations and Sustainability

Biomasses serve as primary examples of bio-waste conversion for value-added products. The processes presented in this book are also applicable to similar bio-wastes. Each chapter details the bioconversion, bioprocessing, and downstream processing of chemical substitutes derived from used biomass, produced through mild methods and ending with zero waste. This approach bypasses the challenges associated with conventional methods. This conversion process offers a twofold benefit: mitigating air pollution from bad disposal as waste open burning and producing environmentally friendly alternatives for petroleum-based products.

CRC Press
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Pb: 978-1-041-25228-3 : £52.99
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Integrative Approach to Fungal Infections and Bioprospecting for Drug Discovery

Volume 1



Edited by Eti Sharma , Rekha Puria , Karan Kumar

Series: Medicinal Plants and Natural Products for Human Health

Research into plant-based antifungals offers a viable alternative to discover potent, eco-friendly, and sustainable treatments. Natural antifungal compounds offer a promising solution, as they tend to have fewer side effects and reduced risk of resistance development compared to synthetic alternatives. This book delves into the application of metagenomics in identifying and harnessing the microbial communities associated with medicinal plants. By integrating bioprospecting techniques with cutting-edge genomic technologies, this work opens up promising new avenues to provide insights into the potential of natural products for developing novel antifungal therapies.

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Integrative Approach to Fungal Infections and Bioprospecting for Drug Discovery

Volume 2



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Series: Medicinal Plants and Natural Products for Human Health

Research into plant-based antifungals offers a viable alternative to discover potent, eco-friendly, and sustainable treatments. Natural antifungal compounds offer a promising solution, as they tend to have fewer side effects and reduced risk of resistance development compared to synthetic alternatives. This book delves into the application of metagenomics in identifying and harnessing the microbial communities associated with medicinal plants. By integrating bioprospecting techniques with cutting-edge genomic technologies, this work opens up promising new avenues to provide insights into the potential of natural products for developing novel antifungal therapies.

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Hb: 978-1-041-26962-5 : £200
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Integrative Approach to Fungal Infections and Bioprospecting for Drug Discovery: Two Volume Set



Edited by Eti Sharma , Rekha Puria , Karan Kumar

Series: Medicinal Plants and Natural Products for Human Health

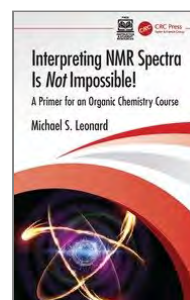
Research into plant-based antifungals offers a viable alternative to discover potent, eco-friendly, and sustainable treatments. Natural antifungal compounds offer a promising solution, as they tend to have fewer side effects and reduced risk of resistance development compared to synthetic alternatives. This two volume set delves into the application of metagenomics in identifying and harnessing the microbial communities associated with medicinal plants. By integrating bioprospecting techniques with cutting-edge genomic technologies, this work opens up promising new avenues to provide insights into the potential of natural products for developing novel antifungal therapies.

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June 2027 : 600pp
Pb: 978-1-041-39372-6 : £400
Hb: 978-1-041-27930-3 : £400

* For full contents and more information, visit: www.routledge.com/9781041393726

Interpreting NMR Spectra Is Not Impossible!

A Primer for an Organic Chemistry Course



Michael S. Leonard

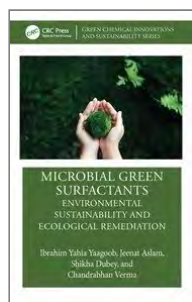
Nuclear magnetic resonance (NMR) spectroscopy is the gold standard for identification of reaction products and unknown substances in the synthetic laboratory. This book is designed for Organic Chemistry lecture and/or laboratory courses at the high school or college and university level. The topics include an introduction to the theory of NMR, several chapters on proton NMR (the number of signals, chemical shift, integration, splitting, and advanced topics), and carbon-13 NMR. The book culminates with twenty additional, comprehensive problems. All of the problems throughout the text are accompanied by fully worked solutions with detailed explanations.

CRC Press
July 2026 : 176pp
Pb: 978-1-041-32525-3 : £52.99
Hb: 978-1-041-32526-0 : £96.99

* For full contents and more information, visit: www.routledge.com/9781041325253

Microbial Green Surfactants

Environmental Sustainability and Ecological Remediation



Edited by Ibrahim Yahia Yaagoob, Jeenat Aslam, Shikha Dubey Hemvati Nandan Bahuguna Garhwal University, **Chandrabhan Verma** King Fahd University of Petroleum & Minerals, Saudi Arabia

Series: Green Chemical Innovations and Sustainability

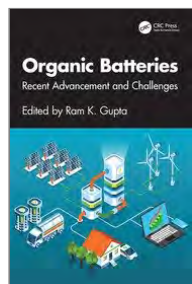
This volume presents the latest research on biosurfactant molecules and their role in environmental sustainability. Advances in organic chemistry have traditionally enabled the development of hydrophobic and hydrophilic surfactants. In contrast, biosurfactants—derived from microorganisms or plant sources—offer significant advantages, including high biodegradability, low toxicity, ready availability of raw materials, and ease of application. Also known as green surfactants, these sustainable alternatives play a vital role in modern industrial sectors, including petroleum recovery, personal care products, food processing, and medical applications.

CRC Press
July 2026 : 488pp
Hb: 978-1-032-89088-3 : £205

* For full contents and more information, visit: www.routledge.com/9781032890883

Organic Batteries

Recent Advancement and Challenges



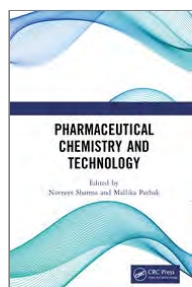
Edited by Ram K. Gupta Pittsburg State Univ

This book covers the fundamentals of organic batteries, materials for cathode and anode in organic batteries, various synthesis methods, and approaches to modify their properties to provide high energy and power densities, along with long life and stable electrochemical characteristics. It provides current, state-of-the-art knowledge and future challenges in organic batteries. It is suitable for students and researchers working in the energy sector, materials, and nanotechnology.

CRC Press
September 2026 : 352pp
Hb: 978-1-032-82965-4 : £200

* For full contents and more information, visit: www.routledge.com/9781032829654

Pharmaceutical Chemistry and Technology



Edited by Navneet Sharma, Mallika Pathak

This book addresses targeted drug delivery advancements amid growing emphasis on personalized medicine and precision therapeutics. The comprehensive analysis covers nanotechnology-based carriers, controlled release systems, and regulatory frameworks. Essential reading for understanding pharmaceutical innovation opportunities in drug targeting and therapeutic optimization. This title has been co-published with Manakin Press. T&F does not sell or distribute the print editions in Bangladesh, Bhutan, India, Nepal, Pakistan, and Sri Lanka.

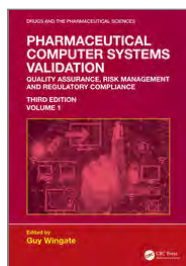
CRC Press
May 2026 : 654pp
Hb: 978-1-041-28132-0 : £205
eBook: 978-1-003-77879-0

* For full contents and more information, visit: www.routledge.com/9781041281320

3RD EDITION

Pharmaceutical Computer Systems Validation

Volume 1 - Quality Assurance, Risk Management and Regulatory Compliance



Edited by Guy Wingate

Series: Drugs and the Pharmaceutical Sciences

This is the third edition of the best-selling book dealing with validation, compliance and software in the pharmaceutical, healthcare and medical device industries. The first volume provides a comprehensive walk-through of lifecycle and development methodologies bringing together technological advances, latest regulatory requirements, inspection findings, and compliance strategies. The second volume comprises an extensive set of refreshed case studies spanning laboratory, manufacturing and supply chain systems with new contributions on databases, spreadsheets, LIMS, blockchain, mobile devices, AI-enabled systems, big data and digital twins authored by various industry experts.

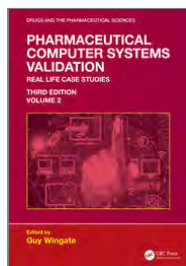
CRC Press
June 2026 : 528pp
Hb: 978-1-032-98108-6 : £190
eBook: 978-1-003-59707-0

* For full contents and more information, visit: www.routledge.com/9781032981086

3RD EDITION

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Volume 2 - Real Life Case Studies



Edited by Guy Wingate

Series: Drugs and the Pharmaceutical Sciences

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CRC Press
June 2027 : 514pp
Pb: 978-1-041-37114-4 : £49.99
Hb: 978-1-041-37115-1 : £190
eBook: 978-1-042-00617-5

* For full contents and more information, visit: www.routledge.com/9781041371144

3RD EDITION

Pharmaceutical Computer Systems Validation: Two Volume Set



Edited by Guy Wingate

Series: Drugs and the Pharmaceutical Sciences

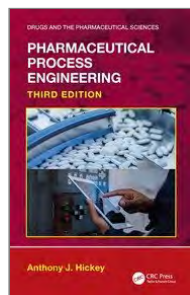
This set collects both Volumes 1 and 2 of the third edition of the best-selling book dealing with validation, compliance and software in the pharmaceutical, healthcare and medical device industries. The first volume provides a walk-through of lifecycle and development methodologies bringing together technological advances, latest regulatory requirements, inspection findings, and compliance strategies. The second volume includes an set of case studies spanning laboratory, manufacturing and supply chain systems with new contributions on databases, spreadsheets, LIMS, blockchain, mobile devices, AI-enabled systems, big data and digital twins authored by various industry experts.

CRC Press
June 2027 : 970pp
Pb: 978-1-041-39060-2 : £99.98
Hb: 978-1-041-39059-6 : £380

* For full contents and more information, visit: www.routledge.com/9781041390602

3RD EDITION

Pharmaceutical Process Engineering



Anthony J. Hickey RTI International, North Carolina, USA

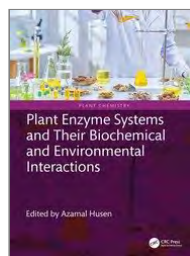
Series: Drugs and the Pharmaceutical Sciences

With step-by-step methods of drug production and knowledge of major unit operations and key concepts of pharmaceutical engineering, this guide will help to improve communication among the varied professionals working in the pharmaceutical industry. The updated volume reflects the acceleration occurring in processes to support new product development as the revolution initiated by characterization of the human genome at the turn of the millennium has an impact in transforming the treatment of disease.

CRC Press
July 2026 : 248pp
Hb: 978-1-032-73011-0 : £200

* For full contents and more information, visit: www.routledge.com/9781032730110

Plant Enzyme Systems and Their Biochemical and Environmental Interactions



Edited by Azamal Husen Wolaita Sodo University, Ethiopia

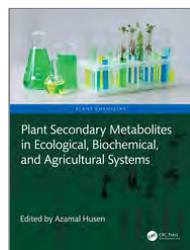
Series: Plant Chemistry

Plant Enzyme Systems and Their Biochemical and Environmental Interactions offers a comprehensive exploration of the pivotal role plant enzymes play in sustaining life, driving metabolic pathways, and enabling plants to thrive under both favourable and adverse conditions.

CRC Press
July 2026 : 242pp
Hb: 978-1-041-13461-9 : £120

* For full contents and more information, visit: www.routledge.com/9781041134619

Plant Secondary Metabolites in Ecological, Biochemical, and Agricultural Systems



Edited by Azamal Husen Wolaita Sodo University, Ethiopia

Series: Plant Chemistry

Plant Secondary Metabolites in Ecological, Biochemical, and Agricultural Systems offers a comprehensive exploration of these powerful natural compounds and their multifaceted roles in plant defense, ecological interactions, and sustainable crop production.

CRC Press
July 2026 : 288pp
Pb: 978-1-041-15893-6 : £52.99
Hb: 978-1-041-16092-2 : £120

* For full contents and more information, visit: www.routledge.com/9781041158936

Polypeptide Innovations

Advancements in Delivery and Targeting for Precision Medicine



Cover Image
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Edited by Ahmed AH Abdellatif

Series: Drugs and the Pharmaceutical Sciences

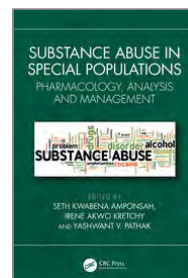
Polypeptides are essential biomolecules for physiological and therapeutic purposes and this book addresses the complex relationships between polypeptides and biological systems. It examines transport and targeting processes to reveal the latest polypeptide precision medicine advances. A complete overview of polypeptides and their creative medical uses, particularly in distribution, targeting, and therapy is presented, as well as polypeptides' fundamental ideas and nanomedicine innovations which are important in biological processes and therapeutics. An extensive list of references and case studies provide the readers with additional resources to deepen their knowledge on the subject.

CRC Press
October 2026 : 328pp
Hb: 978-1-041-10069-0 : £200

* For full contents and more information, visit: www.routledge.com/9781041100690

Substance Abuse in Special Populations

Pharmacology, Analysis and Management



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

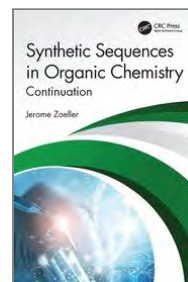
Substance abuse and addiction is the use of illegal drugs, prescription or over-the-counter drugs or household substances in a way that is detrimental to self, society or both. This volume discusses social, psychological, cultural, biological, and medical perspectives of substance abuse and addiction 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
November 2026 : 276pp
Pb: 978-1-041-02940-3 : £52.99
Hb: 978-1-041-02936-6 : £200

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

Synthetic Sequences in Organic Chemistry

Continuation



Jerome Zoeller Pearson Inc.

Drawing on the vast amount of experience the author has gained from working in industrial and university laboratories, this continuation of the author's previous collection of excerpt reports contains essential details from literature relevant to the synthesis of compounds on a milligram to kilogram scale. A number of the compounds that have eluded efficient preparation in the past are now presented. Material which will improve any chemist's existing synthetic methodology can be found here. Each of the chapters illustrates a novel application of syntheses selected from twenty-first-century literature.

CRC Press
October 2026 : 242pp
Pb: 978-1-041-32767-7 : £52.99
Hb: 978-1-041-32768-4 : £200

* For full contents and more information, visit: www.routledge.com/9781041327677

The Bioanalysis Glossary

2026 Edition



Edited by **The Glossary Editorial Panel**

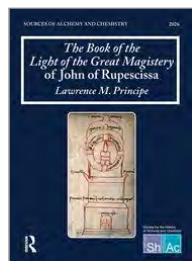
In this glossary, 'bioanalysis' is defined as the quantitative or qualitative measurement of endogenous or exogenous analytes in biological matrices. The broader use of the term used by biochemists for biochemical characterization is excluded. This glossary lists terms, definitions and equations that are directly associated with the field of bioanalysis; that describe closely related techniques, technologies and applications of bioanalysis; and which are important or useful for bioanalysts to understand.

CRC Press
July 2026 : 190pp
Pb: 978-1-041-16238-4 : **£27.99**
Hb: 978-1-041-16239-1 : **£94.99**

* For full contents and more information, visit: www.routledge.com/9781041162384

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.

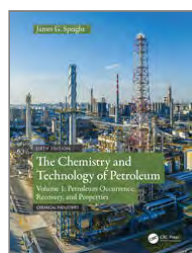
Routledge
June 2026 : 272pp
Pb: 978-1-041-12777-2 : **£52.99**
Hb: 978-1-041-12117-6 : **£130**

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6TH EDITION

The Chemistry and Technology of Petroleum

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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.

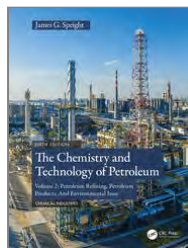
CRC Press
July 2026 : 432pp
Hb: 978-0-367-49805-4 : **£320**

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

6TH EDITION

The Chemistry and Technology of Petroleum

Volume 2: Petroleum Refining, Petroleum Products, And Environmental Issues



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Series: Chemical Industries

The latest edition reflects advancements in refining, featuring new and updated processes along with current environmental regulations. Rich with figures, tables, chemical structures, and process flow diagrams, it serves as an essential reference for professionals in petroleum and catalyst manufacturing industries.

CRC Press
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Hb: 978-1-041-29056-8 : **£315**

* For full contents and more information, visit: www.routledge.com/9781041290568

6TH EDITION

The Chemistry And Technology Of Petroleum



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

Series: Chemical Industries

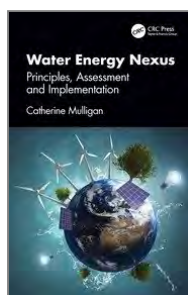
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CRC Press
July 2026 : 1136pp
Hb: 978-1-041-29210-4 : **£635**

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Water Energy Nexus

Principles, Assessment and Implementation



Catherine N. Mulligan

Water and energy systems will be even more strongly linked in the future and therefore it is important now to properly understand how to assess and implement the water-energy security nexus. The nexus between water and energy is a highly important element, as energy production is very water intensive, but at the same time various elements in the water sector exert a heavy energy footprint. As a result, metrics and models to optimise systems and security, as well as reliability, are required. This book will address the principles, assessment and implementation of the water energy nexus, and how it is best used to reduce the carbon footprint in lieu of climate change.

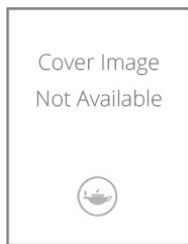
CRC Press
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3ds Max Basics for Modeling Video Game Assets

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3ds Max Basics for Modeling Video Game Assets is a project-based introduction to 3D modeling designed for students, educators, and beginners entering the world of game development. Written by veteran instructor and industry artist Bill Culbertson, the book applies real-world workflows to teach foundational skills using Autodesk 3ds Max. While the instruction is presented in 3ds Max, the principles and workflows are transferable to other major 3D modeling platforms. Stay current with updates, resources, and downloadable project files at 3dsMaxBasics.com—a dedicated hub for both students and instructors.

CRC Press

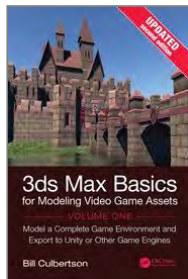
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CRC Press

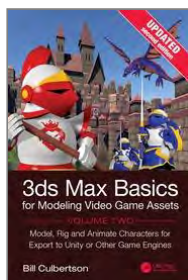
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2ND EDITION

3ds Max Basics for Modeling Video Game Assets, Volume 2

Model, Rig and Animate Characters for Export to Unity or Other Game Engines

**William Culbertson**

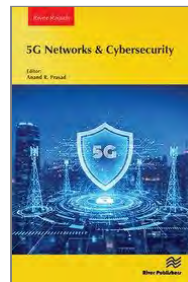
3ds Max Basics for Modeling Video Game Assets, Volume Two builds on the foundational skills introduced in Volume One, guiding readers into the creation of fully realized 3D characters for video games. Written by veteran instructor and industry artist Bill Culbertson, this volume introduces character modeling, rigging, and animation using real-world production workflows in Autodesk 3ds Max. While instruction is presented using 3ds Max, the principles and workflows are transferable to other major 3D modeling and animation platforms. Stay current with updates, resources, and downloadable project files at 3dsMaxBasics.com—a dedicated hub for both students and instructors.

CRC Press

November 2026 : 448pp

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5G Networks & Cybersecurity

**Anand Prasad**

Series: *River Publishers Rapids Series in Computer Engineering and Information Science and Technology*

The 5G mobile system is a culmination of technological evolution of communication technologies, including IP based services, virtualization, the rise of smartphones, IoT and the convergence of wired and wireless networks. With the evolution of 5G mobile connectivity, its security mechanism needs to adapt to a wide range of users and technological shifts. This book provides a simplified view of 5G security, bridging the gap between complex technical standards and practical understanding.

River Publishers

June 2026 : 84pp

Pb: 978-8-743-81088-9 : **£82.99*** For full contents and more information, visit: www.routledge.com/9788743810889

A Practical Guide to Escape Room Design

**Michiel van Eunen , Karen Sikkema**

This book takes you behind the scenes of escape room creation and show how great rooms are really designed. From choosing a theme and crafting a story to building puzzles, structuring the game and playtesting with real players, this hands-on guide walks you through the entire design process. Along the way, you'll discover the principles, pitfalls and practical tricks that experienced designers use to turn ideas into immersive experiences. Whether you're building your first escape room or refining your next one, this book will help you create games that challenge, surprise and delight your players.

CRC Press

October 2026 : 216pp

Pb: 978-1-041-10769-9 : **£34.99**Hb: 978-1-041-10770-5 : **£100*** For full contents and more information, visit: www.routledge.com/9781041107699

A Practical Guide to Integrating Generative AI into HR Management



Ketan Sanjay Desale , Soumi Majumder Sister Nivedita University, West Bengal, India

Series: *Knowledge-based Engineering for Innovation*

This book is a practical guide to integrating of generative AI into human resources, covering use cases across recruitment, onboarding, training, and retention. It covers AI-driven applications in talent acquisition, onboarding, employee engagement, career development, and decision-making, while addressing key concerns such as algorithmic bias, data privacy, and regulatory compliance. The book provides a structured approach to evaluating and integrating generative AI tools within HR systems. This book bridges the gap between AI technologies and HR operations to help organisations build agile, ethical, and employee-centric workplaces.

Chapman & Hall

June 2026 : 142pp

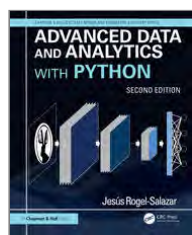
Pb: 978-1-041-14184-6 : **£78.99**Hb: 978-1-041-14535-6 : **£200**

eBook: 978-1-003-67488-7

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2ND EDITION

Advanced Data Science and Analytics with Python



Jesús Rogel-Salazar Imperial College London, UK

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

The second edition of *Advanced Data Science and Analytics with Python* reflects the rapid transformation of artificial intelligence in recent years. While preserving its practical, modular structure, this edition significantly expands coverage of the techniques shaping modern AI practice. Generative AI now takes centre stage, with dedicated coverage of self-attention, BERT, GPT, large language model evaluation and API-based interaction. Fully updated for the contemporary Python ecosystem, this edition equips practitioners with the tools and architectural understanding required to design, build and deploy intelligent systems in today's AI-driven world.

Chapman & Hall
August 2026 : 632pp
Pb: 978-1-041-10285-4 : **£51.99**
Hb: 978-1-041-10360-8 : **£150**

* For **full contents** and more information, visit: www.routledge.com/9781041102854

Advances in AI for Plant Protection



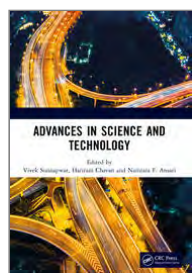
Edited by **Kamel Ahmed Abd-El Salam** Plant Pathology Research Institute, Agricultural Research Center (ARC), Egypt, **Aftab Ahmad**

This is a critical book that examines the power of artificial intelligence to transform the health of crops. It covers the latest AI technologies being used for proactive and accurate protection of plants. The book is a detailed guide on drones and robotics that are used to monitor and spray specific areas and provide highly advanced image processing that help in detecting diseases early on in crops such as wheat, cotton, and tomato. It fills the disconnect between data science and agronomy, including smart sensing, predictive analytics, and integration with precision agriculture systems.

CRC Press
July 2026 : 390pp
Hb: 978-1-032-88567-4 : **£130**

* For **full contents** and more information, visit: www.routledge.com/9781032885674

Advances in Science and Technology



Edited by **Vivek Sunnapwar**, **Hariram Chavan**, **Namrata F. Ansari**

The aim of the conference is to bring together academicians, researchers, developers, engineers, students, industrial experts and practitioners working in India and abroad promoting research and developmental activities & scientific information interchange in the field of Computer Sciences, Advances in Signal Processing, Wireless Communications & Networking, Applied Sciences and Humanities and Interdisciplinary Studies to a common forum.

CRC Press
May 2026 : 500pp
Pb: 978-1-041-30375-6 : **£55.99**
Hb: 978-1-041-29918-9 : **£160**
eBook: 978-1-003-77467-9

* For **full contents** and more information, visit: www.routledge.com/9781041303756

Affective Learning and Serious Games



Kaoru Sumi Future University Hakodate, Hokkaido, Japan

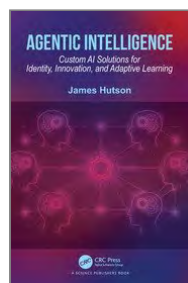
This book explores the exciting fields of Affective Learning, Serious Games, and next-generation educational technologies, shedding light on recent research and its implications for the future of education. These emerging disciplines leverage emotional engagement and game-based learning to enhance educational outcomes. It also highlights technologies such as virtual and mixed reality, and digital twins, which offer immersive and culturally responsive learning environments. Affective Learning uses emotional cues to create responsive, human-like interactions in educational systems, while Serious Games harness the power of gaming to teach through simulated experiences.

CRC Press
June 2026 : 288pp
Hb: 978-1-041-32262-7 : **£105**
eBook: 978-1-003-78273-5

* For **full contents** and more information, visit: www.routledge.com/9781041322627

Agentic Intelligence

Custom AI Solutions for Identity, Innovation, and Adaptive Learning



James Hutson

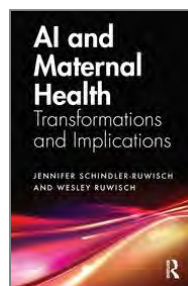
Agentic Intelligence examines the emergence of AI systems capable of autonomous goal formation, adaptive decision-making, and sustained interaction across complex environments. Framed at the intersection of artificial intelligence, cognitive science, ethics, and organizational practice, the book traces the conceptual foundations of agentic systems while rigorously interrogating their technical architectures and social implications. Through applied case studies spanning education, creative industries, and knowledge work, the volume demonstrates how agentic AI reshapes labor, authorship, and expertise rather than merely accelerating existing workflows.

CRC Press
August 2026 : 252pp
Hb: 978-1-041-12309-5 : **£105**

* For **full contents** and more information, visit: www.routledge.com/9781041123095

AI and Maternal Health

Transformations and Implications



Jennifer Schindler-Ruwisch, **Wesley Ruwisch**

This book engages with complex questions about how AI can complement or supplement the work of healthcare providers. It draws on the latest data and research to explore AI's role across a range of med-tech applications, including chatbots, electronic medical records, virtual coaching, and social media. Through evidence-based analysis, it considers how these technologies might prevent maternal morbidity and mortality, and promote health equity. The book also takes a carefully balanced approach, acknowledging the risks of AI - such as algorithmic bias - and evaluates when and how AI is most or least effective in meeting patient needs.

Routledge
May 2026 : 188pp
Pb: 978-1-032-95214-7 : **£51.99**
Hb: 978-1-032-95215-4 : **£150**
eBook: 978-1-003-58371-4

* For **full contents** and more information, visit: www.routledge.com/9781032952147

AI for a Just World

Power, Liberation, and the People Left Behind



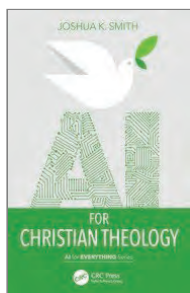
Edited by Christo El Morr, Rachel da Silveira Gorman, Elham Dolatabadi, Laleh Seyyed-Kalantari

This book examines how artificial intelligence systems are reshaping social, political, and economic life with unequal consequences. Bringing together critical scholarship from across disciplines, it investigates how AI redistributes power, produces new forms of exclusion, and reconfigures longstanding structures of inequality. It will interest scholars, graduate students, and advanced practitioners working in critical AI studies, science and technology, health policy, political science, sociology, education, law, and digital ethics, as well as policymakers and activists seeking rigorous, justice-oriented frameworks for understanding and contesting the social impacts of AI.

Chapman & Hall
July 2026 : 360pp
Hb: 978-1-041-23697-9 : £120

* For full contents and more information, visit: www.routledge.com/9781041236979

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
May 2026 : 142pp
Pb: 978-1-032-32969-7 : £24.99
Hb: 978-1-032-32971-0 : £130
eBook: 978-1-003-31756-2

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

AI for HCI



Alan Dix Swansea University, Fabian Way, Swansea, Wales

Series: AI for Everything

Every AI system needs to interact with humans and AI is affecting nearly every human engagement with digital technology from simple word processors to autonomous vehicles. This book explores these rich human aspects of AI: how AI can help in user experience design and how effective user interfaces can help AI. It presents guidelines and methods for the design and evaluation of systems with AI including smart environments and intelligent web and mobile applications. It also looks at the way AI can help the behind-the-scenes work of user experience designers and how better user interfaces can help AI developers navigate the complexity of vast and seemingly impenetrable AI models.

CRC Press
September 2026 : 134pp
Pb: 978-1-041-07780-0 : £25.99
Hb: 978-1-041-07617-9 : £150

* For full contents and more information, visit: www.routledge.com/9781041077800

AI for Marketing

The Consumer Perspective



Idil M. Cakim

Series: AI for Everything

AI for Marketing examines the human side of AI adoption at a moment when technology is advancing faster than consumer comfort. While millions use AI to search, plan, create, and make decisions, trust remains fragile. This book explains why that gap persists, and what it means for marketers trying to reach audiences who are both curious and cautious. The book offers marketers practical guidance on designing AI-powered experiences that are credible, equitable, and human led. It shows how trust can be built into every touchpoint – from onboarding and data exchange to content creation and customer service – and why doing so is essential for adoption and long-term loyalty.

CRC Press
July 2026 : 234pp
Pb: 978-1-041-13532-6 : £24.99
Hb: 978-1-041-13533-3 : £130

* For full contents and more information, visit: www.routledge.com/9781041135326

AI for the Ordinary

A Non-technical Playbook for Citizens, Students, and Managers



Raghu Kowshik, Peter Jay Sorenson

AI for the Ordinary is a timely and accessible guide that demystifies artificial intelligence for everyday citizens and non-technical professionals. It makes a compelling case that AI is no longer the exclusive domain of coders and technologists – it is a civic, economic, and personal imperative. It shows how AI literacy is now essential for life and leadership in the 21st century. It is designed for students, professionals, and lifelong learners. It is ideal for business, public policy, and liberal arts programs seeking to integrate AI across the curriculum, and it supports corporate learning and executive education initiatives with a pragmatic, human-centered approach.

Chapman & Hall
June 2026 : 346pp
Pb: 978-1-041-26445-3 : £29.99
Hb: 978-1-041-26532-0 : £130
eBook: 978-1-003-75075-8

* For full contents and more information, visit: www.routledge.com/9781041264453

AI for Time Series

Volume 1: Unlocking Patterns with Deep Learning



Edited by Min Wu, Emadeldeen Eldele, Zhenghua Chen, Shirui Pan, Qingsong Wen, and Xiaoli Li

This book provides a thorough exploration of the latest innovations in AI for general time series analysis, distribution shift and foundation models. It offers an in-depth look at cutting-edge techniques and methodologies, using advance algorithms that are transforming time series analysis across industries. The book can be used as a supplementary reading for graduate students taking advanced topics/seminars on advanced deep learning and foundation models.

CRC Press
May 2026 : 268pp
Pb: 978-1-041-01031-9 : £55.99
Hb: 978-1-041-01032-6 : £200
eBook: 978-1-003-61274-2

* For full contents and more information, visit: www.routledge.com/9781041010319

AI for Time Series

Volume 2: Building Robust and Generalizable Models



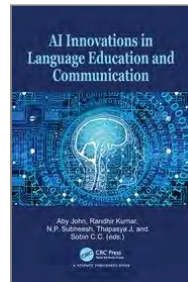
Edited by **Min Wu, Emadeldeen Eldele, Zhenghua Chen, Shirui Pan, Qingsong Wen, Xiaoli Li**

This book provides a thorough exploration of the latest innovations in AI for general time series analysis, distribution shift and foundation models. It offers an in-depth look at cutting-edge techniques and methodologies, using advance algorithms that are transforming time series analysis across industries. The authors highlight the use AI models, particularly those based on deep learning, to study the sequence of data points collected at successive points in time. In the study of the use of AI for general time series analysis, readers are introduced to a recent important model like TimesNet, which has set new benchmarks for general time series analysis.

CRC Press
July 2026 : 316pp
Pb: 978-1-041-01103-3 : **£49.99**
Hb: 978-1-041-01870-4 : **£190**

* For full contents and more information, visit: www.routledge.com/9781041011033

AI Innovations in Language Education and Communication



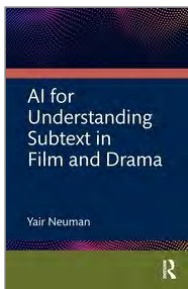
Edited by **Aby John, Randhir Kumar** SRM University, India, **N. P. Subheesh** Indian Institute Of Technology Madras, India, **Thapasya J, Sobin C C** SRM University, India

The integration of AI in language learning and communication has transformed the field. While AI enhances language proficiency and fluency, it also raises concerns about effectiveness, accessibility, and potential biases. Ethical issues surrounding privacy, data security, and cultural nuances must be addressed to ensure reliable AI-powered language solutions. This book examines the impact of AI on language education and cross-cultural communication. It aims to promote inclusive and effective multilingual interactions through a deeper understanding of AI's role.

CRC Press
June 2026 : 308pp
Hb: 978-1-041-08715-1 : **£105**
eBook: 978-1-003-65992-1

* For full contents and more information, visit: www.routledge.com/9781041087151

AI for Understanding Subtext in Film and Drama



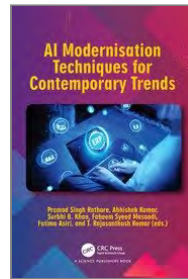
Yair Neuman

AI for Understanding Subtext in Film and Drama offers a novel, rigorous, and deeply reflective approach to one of the most elusive problems in aesthetics and interpretation: how meaning emerges when it is not explicitly stated. The book will be of strong interest to researchers and advanced students, scholars in human-AI interaction and AI for the humanities, and educators teaching interpretation, subtext, and critical reading. It is suitable for graduate-level courses, advanced undergraduate seminars, and interdisciplinary programs that bridge the humanities, social sciences, and AI studies.

Routledge
September 2026 : 256pp
Pb: 978-1-041-36785-7 : **£51.99**
Hb: 978-1-041-36786-4 : **£120**

* For full contents and more information, visit: www.routledge.com/9781041367857

AI Modernisation Techniques for Contemporary Trends



Edited by **Pramod Singh Rathore** AECRC, **Abhishek Kumar, Surbhi B. Khan, Faheem Masoodi, Fatima Asiri, T. Rajasanthosh Kumar**

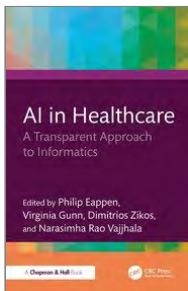
This volume offers a comprehensive and practical framework for engineers, technicians, and individuals interested in converting conventional electromechanical systems into intelligent, interconnected, and efficient smart systems. The rising demand for smart technologies necessitates the need of upgrading current systems to effectively cater to these expectations. This book serves as an extensive resource that aims to facilitate the integration of ancient and contemporary technologies, guiding readers during the whole process of conversion.

CRC Press
June 2026 : 272pp
Hb: 978-1-032-87188-2 : **£120**
eBook: 978-1-003-59220-4

* For full contents and more information, visit: www.routledge.com/9781032871882

AI in Healthcare

A Transparent Approach to Informatics



Edited by **Philip Eappen, Virginia Gunn, Dimitrios Zikos, Narasimha Rao Vajjhala** University of New York Tirana, Albania

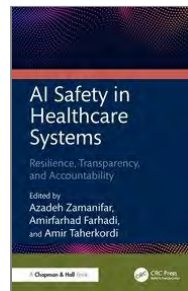
This book addresses the urgent need for AI healthcare insights in a post-pandemic world. It explores the rapidly evolving AI landscape and provides practical, evidence-based guidance drawn from lessons learned during the pandemic. This invaluable resource is essential for academics, practitioners, and policymakers in healthcare management, information systems management, healthcare policy, and public health.

Chapman & Hall
May 2026 : 222pp
Hb: 978-1-041-03687-6 : **£110**
eBook: 978-1-003-62487-5

* For full contents and more information, visit: www.routledge.com/9781041036876

AI Safety in Healthcare Systems

Resilience, Transparency, and Accountability



Edited by **Azadeh Zamanifar, Amirfarhad Farhadi, Amir Taherkordi**

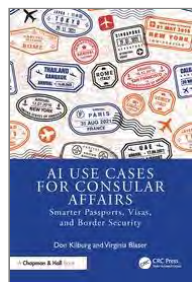
The book explores real-world applications of explainable AI (XAI) safely in healthcare, focusing on disease diagnosis, treatment planning, and patient management, while demonstrating how XAI enhances clinical decision-making and patient outcomes. It discusses the integration of explainable large language models (LLMs) into electronic health records (EHRs) and clinical workflows to facilitate data analysis, improve documentation, and support care delivery.

Chapman & Hall
July 2026 : 240pp
Hb: 978-1-041-24961-0 : **£120**

* For full contents and more information, visit: www.routledge.com/9781041249610

AI Use Cases for Consular Affairs

Smarter Passports, Visas, and Border Security



Don Kilburg , Virginia Blaser

AI Use Cases for Consular Affairs explores applications for artificial intelligence across issues such as visas, passports, border security, disaster evacuation, and identity verification. It shows how AI can improve fairness, expand access, and return precious time to public servants, while confronting the risks and ethical dilemmas head-on. This book is essential reading for public servants, policymakers, diplomats, politicians, state officials, immigration professionals and all those working in consular affairs, as well as general readers with an interest in the implications of AI for worldwide migration.

Chapman & Hall
October 2026 : 288pp
Pb: 978-1-041-06301-8 : **£31.99**
Hb: 978-1-041-06302-5 : **£120**

* For full contents and more information, visit: www.routledge.com/9781041063018

AI Use Cases for Public Diplomacy

Applying AI to Public Affairs and Strategic Communication



Don Kilburg

AI Use Cases for Public Diplomacy reveals how AI is reshaping the landscape of public diplomacy – from audience analysis and strategic messaging to media monitoring, crisis communication, and multilateral coalition-building – and how it can aid diplomats in the contest for hearts and minds. Kilburg shows how AI can expand diplomatic reach, sharpen timing, and sustain credibility while confronting the ethical dilemmas head-on. This book is essential reading for diplomats, embassy staff, politicians, and public communicators who are ready to act on the greatest lesson the AI revolution teaches us: credibility can no longer be faked, only earned.

Chapman & Hall
September 2026 : 336pp
Pb: 978-1-041-00837-8 : **£31.99**
Hb: 978-1-041-00938-2 : **£120**

* For full contents and more information, visit: www.routledge.com/9781041008378

Algorithmic Urbanism for Climate Resilience

AI, Green Infrastructure, and Policy Innovation for Heat-Ready Cities



Tan Yigitcanlar Queensland University of Technology

This book offers a comprehensive exploration of how artificial intelligence, ecological design, and governance reforms can be leveraged to tackle climate-induced urban heat. It is an essential resource for urban planners, climate researchers, and policymakers seeking forward-looking, inclusive, and technologically informed strategies for building heat-ready cities in a warming world.

CRC Press
August 2026 : 314pp
Hb: 978-1-041-23428-9 : **£86.99**

* For full contents and more information, visit: www.routledge.com/9781041234289

An Introduction to Large Language Models

Joe Dhanith P. R. , Geetha S. , Sheik Abdullah A.



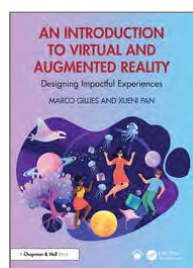
The book offers an introduction to Large Language Models that bridge foundational natural language processing (NLP) concepts with the advanced techniques underlying large language models (LLMs). It offers a structured exploration of NLP evolution, from rule-based approaches to transformer architectures. Covering key principles such as tokenisation, attention mechanisms, and model architectures (BERT, GPT, T5), the book explains pretraining objectives like masked and causal language modeling. It also addresses optimisation techniques such as LoRA, pruning, and quantisation for efficient LLM deployment.

Chapman & Hall
October 2026 : 352pp
Pb: 978-1-041-08627-7 : **£51.99**
Hb: 978-1-041-09435-7 : **£94.99**

* For full contents and more information, visit: www.routledge.com/9781041086277

An Introduction to Virtual and Augmented Reality

Designing Impactful Experiences



Marco Gillies Goldsmiths, University of London, UK,
Xueni Pan

This book is an introduction to Virtual Reality (VR) and Augmented Reality (AR), giving learners a deep understanding of the media and enabling them to create impactful experiences applicable to a variety of industries. The book introduces the hardware and software that power these technologies, explained in clear and accessible terms. It then examines 'presence' and 'embodiment', explores mixed reality, and investigates real and virtual agents. Supported by a wealth of case studies of VR/AR applications, and interviews from VR/AR experts, this book serves as a core textbook for students of Virtual Reality and Augmented Reality courses in creative and technical fields.

Chapman & Hall
August 2026 : 288pp
Pb: 978-1-032-97126-1 : **£64.99**
Hb: 978-1-032-97127-8 : **£120**

* For full contents and more information, visit: www.routledge.com/9781032971261

Applied Cryptography

Principles, Analysis, and Python Implementation



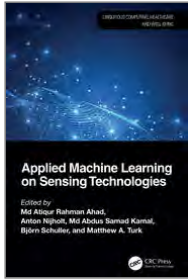
Zhuo Liu , Yongkun Zhao , Lingcai Huang

This book systematically explores modern cryptography, bridging the gap between theoretical frameworks and engineering practices and transforming complex mathematical concepts into accessible, real-world algorithms. Designed for students, researchers, and professionals in computer science and cybersecurity, this book connects foundational theory with practical engineering. Its accessible style also makes it a valuable resource for academic libraries, professional training programs, and individuals building secure systems in the digital age.

CRC Press
October 2026 : 552pp
Hb: 978-1-041-37939-3 : **£150**

* For full contents and more information, visit: www.routledge.com/9781041379393

Applied Machine Learning on Sensing Technologies



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

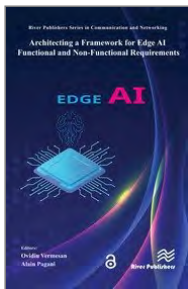
Series: Ubiquitous Computing, Healthcare and Well-being

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 : 244pp
Hb: 978-1-032-76642-3 : £150
eBook: 978-1-003-50621-8

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

Architecting a Framework for Edge AI Functional and Non-functional Requirements



Edited by Ovidiu Vermesan , Alain Pagani

Series: River Publishers Series in Communications and Networking

Architecting a Framework for Edge AI Functional and Non-functional Requirements explores performance, dependability, and trust in edge AI. Covering hardware, software, ethics, law, and KPIs, it offers a holistic framework for building reliable, transparent, and socially aligned edge intelligence systems.

River Publishers
June 2026 : 186pp
Hb: 978-8-743-80957-9 : £100

* For full contents and more information, visit: www.routledge.com/9788743809579

Artificial Conscience for the Quantum Physicist

Conscious Machines Tackling Quantum Mysteries



Ariel Fernández Stigliano

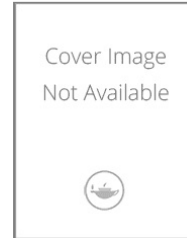
Fathom an AI system capable of making utterances like "I think therefore I am". This inward gaze, arguably a hallmark of conscience, is absent in today's intelligent machines. Yet, it is essential for the alignment of purpose of machine and human, an imperative that should turn the machine into an ally of human endeavor. Accordingly, this book implements conscience within an AI context, describing how an AI system for neural symbolic reasoning may be endowed with an introspective function. The goal is to approach core scientific problems deemed "non-computable" as the standard tenets of physics are applied.

CRC Press
September 2026 : 300pp
Hb: 978-1-041-32941-1 : £120

* For full contents and more information, visit: www.routledge.com/9781041329411

Artificial Intelligence and Legal Evidence

The Indian Policy and Perspective



Edited by Sarfaraz Ahmed Khan , Lovely Dasgupta , Saptarshi Ghosh , Kripabandhu Ghosh

This book explores AI's impact on legal evidence, with a particular focus on its use within Indian law by identifying the key feature of an Artificial intelligence-driven Justice Delivery System. It seeks to bridge the gap in the literature on the intersection of AI and law, specifically the evaluation of evidence. The book focuses on AI's potential to enhance the evaluation of evidence in various legal contexts. It considers the reliability, admissibility, and standardisation of AI-generated evidence in legal proceedings. The book will be useful for academicians and scholars interested in Artificial Intelligence's impact and use in the legal system.

Chapman & Hall
July 2026 : 224pp
Hb: 978-1-041-04624-0 : £81.99

* For full contents and more information, visit: www.routledge.com/9781041046240

Artificial Intelligence and Robotics in Sports Industry

Past, Present, and Future



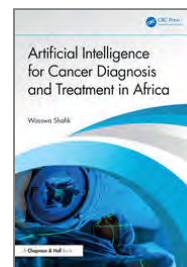
Ekaterina Glebova

This book explores the transformative impact of AI and robotics across sports ecosystems. It traces origins from early mechanical tools to current applications like VAR, Hawk-Eye, wearables for injury prediction, and AI coaching dashboards in soccer, basketball, tennis, and esports. The book clarifies key concepts—automation vs. autonomy, machine learning vs. deep learning—while addressing ethical challenges such as privacy, fairness, and access inequities. It offers frameworks for human-machine teamwork, case studies, futuristic visions like digital twins, and practical guidance to integrate technology responsibly, while honoring the spirit of sports.

CRC Press
July 2026 : 218pp
Hb: 978-1-032-85335-2 : £125

* For full contents and more information, visit: www.routledge.com/9781032853352

Artificial Intelligence for Cancer Diagnosis and Treatment in Africa



Wasswa Shafik

This book discusses the recent development of the integration of artificial intelligence (AI) and digital health technologies within oncology care systems across Africa. It investigates how data-driven technologies, including machine learning, natural language processing (NLP), telehealth, and mobile health (mHealth), can transform cancer detection, diagnosis, treatment, survivorship, and palliative care in African settings. The book addresses epidemiological, infrastructural, ethical, and implementation challenges, offering practical insights into applying AI and digital innovations to oncology care.

Chapman & Hall
June 2026 : 348pp
Hb: 978-1-041-26087-5 : £150
eBook: 978-1-003-75250-9

* For full contents and more information, visit: www.routledge.com/9781041260875

Artificial Intelligence for Marketing Strategies

Real-Life Applications and Case Studies



Edited by **Shruti Choudhary , Hemchandran K , Devendran Alagarsamy , Imed Saad Ben Dhaou , Thomas Musiolik**

Series: *AI Applications and Case Studies for Business*

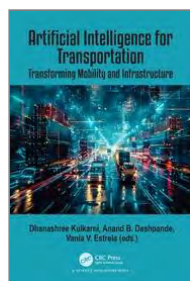
This book introduces emerging AI technologies and their potential to reshape the marketing landscape, offering a forward-looking perspective on the future of marketing strategies. It leverages AI for enhanced customer engagement, brand building, and business excellence. From understanding customer behaviour in the AI era to strategically integrating AI-driven technologies, the book provides actionable insights and practical tools to predictive market insights, data-driven decisions, and innovative customer engagement. It is for professionals, scholars, and decision-makers looking to navigate the transformative potential of AI in the modern marketing landscape.

Chapman & Hall
October 2026 : 296pp
Hb: 978-1-041-03417-9 : **£86.99**

* For full contents and more information, visit: www.routledge.com/9781041034179

Artificial Intelligence for Transportation

Transforming Mobility and Infrastructure



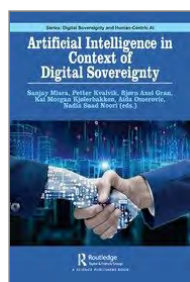
Edited by **Dhanashree Kulkarni , Anand Deshpande**
Angadi Ins Of Tech and Management, India, **Vania Vieira Estrela**

This book presents a comprehensive exploration of how emerging Artificial Intelligence (AI) technologies are reshaping the future of mobility. From foundational principles and intelligent transportation systems to advanced applications such as AI-driven driving analytics, smart traffic management, and augmented-reality safety solutions, the book covers a wide spectrum. It also explores future-focused innovations including autonomous vehicles, edge AI, 6G-enabled mobility, quantum computing, generative AI for infrastructure design, and vehicle-to-vehicle communication, offering a holistic vision of safe, resilient, and sustainable transportation.

CRC Press
July 2026 : 236pp
Hb: 978-1-041-07186-0 : **£125**

* For full contents and more information, visit: www.routledge.com/9781041071860

Artificial Intelligence in Context of Digital Sovereignty



Edited by **Sanjay Misra , Petter Kvalvik , Bjørn Axel Gran , Kai Morgan Kjølervbakken , Aida Omerovic , Nadia Saad Noori**

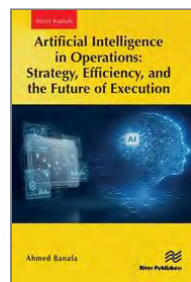
Series: *Digital Sovereignty and Human-Centric AI*

In a world increasingly shaped by technology, digital sovereignty is a critical need for nations and organizations to preserve their autonomy. It is about more than just control over data and infrastructure; it's about safeguarding values, privacy, and ethics in an era of AI. This concept empowers entities to reduce dependency on foreign tech, ensuring that their digital future reflects their unique priorities and needs.

Routledge
May 2026 : 408pp
Hb: 978-1-032-94550-7 : **£125**
eBook: 978-1-003-58158-1

* For full contents and more information, visit: www.routledge.com/9781032945507

Artificial Intelligence in Operations: Strategy, Efficiency, and the Future of Execution



Ahmed Banafa

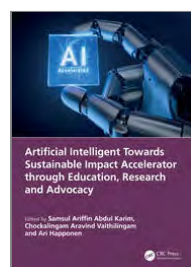
Series: *River Publishers Series in Rapids in Computing and Information Science and Technology*

Artificial Intelligence in Operations: Strategy, Efficiency, and the Future of Execution examines how AI is transforming operational systems across industries and institutions. From supply chains and logistics to healthcare, national security, higher education, criminal justice, diplomacy, and modern warfare, the book reveals how intelligent technologies are redefining how work is planned, executed, monitored, and optimized. Unlike purely technical texts, this book focuses on real-world operational impacts.

River Publishers
June 2026 : 94pp
Pb: 978-8-743-81291-3 : **£70.99**

* For full contents and more information, visit: www.routledge.com/9788743812913

Artificial Intelligent Towards Sustainable Impact Accelerator through Education, Research and Advocacy



Edited by **Samsul Ariffin Abdul Karim** FASD, Universiti Teknologi Petronas, Malaysia, **Chockalingam Aravind Vaithilingam , Ari Happonen**

This book emphasizes the importance of incorporating sustainability concepts through the lens of education, research and advocacy. A core focus is Artificial Intelligence (AI) and its developing role in relation to education, research and advocacy to advance sustainable development. Developed by experts in their respective fields of science, technology and engineering with work in education, research and advocacy, this book would serve scholars with innovative insights for their research work.

CRC Press
May 2026 : 358pp
Pb: 978-1-041-04890-9 : **£51.99**
Hb: 978-1-041-06006-2 : **£200**
eBook: 978-1-003-63343-3

* For full contents and more information, visit: www.routledge.com/9781041048909

Artificial Universities

Speculative AI and Generative Design



Mark Blythe

Artificial Intelligence is transforming work, politics and culture in unprecedented ways, despite concerns about education, economies and the environment

CRC Press
May 2026 : 244pp
Pb: 978-1-041-07276-8 : **£49.99**
Hb: 978-1-041-07567-7 : **£130**
eBook: 978-1-003-64114-8

* For full contents and more information, visit: www.routledge.com/9781041072768

Beyond Algorithms

Reframing AI as Intellectual Capital for Human Flourishing



Roderic Hewlett

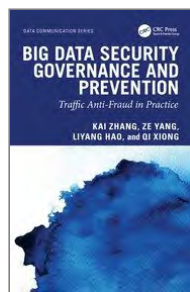
The book offers a clear, timely framework for viewing and analyzing AI as intellectual capital rather than as autonomous intelligence. AI is presented as a tool that helps organize, expand, and apply knowledge to support human decision-making, improve institutional effectiveness, and promote social progress. It is intended for scholars, social scientists, advanced students, policymakers, technology practitioners, and business, education, government, and civil society leaders who seek a rigorous, accessible approach to AI that prioritizes human development, institutional integrity, and long-term value creation over short-term optimization.

Chapman & Hall
July 2026 : 174pp
Pb: 978-1-041-24886-6 : **£51.99**
Hb: 978-1-041-24887-3 : **£120**

* For full contents and more information, visit: www.routledge.com/9781041248866

Big Data Security Governance and Prevention

Traffic Anti-Fraud in Practice



Kai Zhang , Ze Yang , Liyang Hao , Qi Xiong

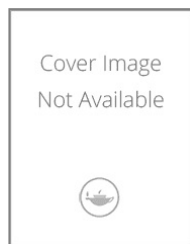
Series: Data Communication Series

This book provides a practical reference for traffic anti-fraud, establishing a new standard for accessible, real-world traffic security governance that empowers readers to design scalable defenses while maintaining optimal user experience. This exceptional resource is ideal for cybersecurity professionals, developers, researchers, and students interested in cybercrime prevention, risk governance, and big data security.

CRC Press
September 2026 : 224pp
Hb: 978-1-041-25535-2 : **£68.99**

* For full contents and more information, visit: www.routledge.com/9781041255352

Blockchain and AI Amalgamation for IoT Applications Beyond 5G



Sudeep Tanwar , Maniklal Das , Abderrahim Benslimane , Rajesh Gupta

Series: River Publishers Series in Digital Security and Forensics

Blockchain and AI Amalgamation for IoT Applications Beyond 5G explores how blockchain, AI, and 5G converge to secure, scale, and transform IoT. Covering privacy, predictive security, edge devices, vehicles, and the metaverse, it offers both theory and real-world applications.

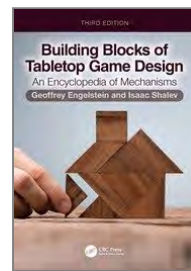
River Publishers
July 2026 : 572pp
Hb: 978-8-743-80904-3 : **£120**

* For full contents and more information, visit: www.routledge.com/9788743809043

3RD EDITION

Building Blocks of Tabletop Game Design

An Encyclopedia of Mechanisms



Geoffrey Engelstein , Isaac Shalev

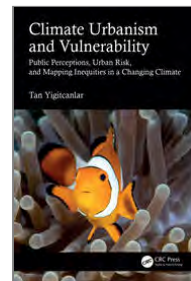
Building Blocks of Tabletop Game Design: An Encyclopedia of Mechanisms, Third Edition compiles hundreds of game mechanisms, organized by category. Building Blocks is a great starting point for new designers, a handy guidebook for the experienced, and an ideal classroom reference.

CRC Press
July 2026 : 578pp
Pb: 978-1-032-98510-7 : **£51.99**
Hb: 978-1-032-98511-4 : **£170**

* For full contents and more information, visit: www.routledge.com/9781032985107

Climate Urbanism and Vulnerability

Public Perceptions, Urban Risk, and Mapping Inequities in a Changing Climate



Tan Yigitcanlar Queensland University of Technology

This book delves into the intricate relationship between climate change, urbanization, political attitudes, and spatial inequities, examining how these elements collectively shape vulnerability in cities. This book is an indispensable resource for practitioners in the field, including city government officials, policymakers, urban planners, and consultants. It can also be used as a reference for researchers and university students in urban studies.

CRC Press
August 2026 : 466pp
Pb: 978-1-041-23234-6 : **£51.99**
Hb: 978-1-041-23427-2 : **£91.99**

* For full contents and more information, visit: www.routledge.com/9781041232346

Creating Websites with AI

A Model Neutral Beginner's Guide



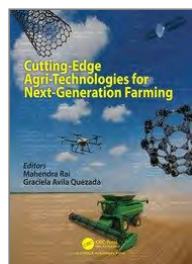
Jens Jacobsen

Provides comprehensive, practical guidance for beginners on leveraging AI to develop websites. Engaging conversations with AI tools like ChatGPT, Gemini, and Copilot.

Chapman & Hall
August 2026 : 326pp
Pb: 978-1-041-21330-7 : **£51.99**
Hb: 978-1-041-21331-4 : **£120**

* For full contents and more information, visit: www.routledge.com/9781041213307

Cutting-Edge Agri-Technologies for Next-Generation Farming



Edited by **Mahendra Rai** SGB Amravati Univeristy, Maharashtra, India, **Graciela Dolores Avila Quezada** Universidad Autonoma de Chihuahua, Mexico

Cutting-Edge Agri-Technologies for Next-Generation Farming explores how emerging innovations such as nanotechnology, genome editing, artificial intelligence, precision agriculture, and smart sensing systems are reshaping modern food production. Bringing together insights from leading global experts, this volume presents interdisciplinary perspectives on improving crop productivity, enhancing resource-use efficiency, and strengthening resilience to climate change. It offers a holistic roadmap for developing sustainable, technology-driven farming systems that balance economic viability with environmental stewardship.

CRC Press
July 2026 : 324pp
Hb: 978-1-041-08145-6 : **£125**
eBook: 978-1-003-65990-7

* For full contents and more information, visit: www.routledge.com/9781041081456

Data Driven Game Development

Transforming Player Data into a Better Player Experience



Nicklaus Goh

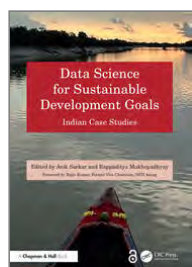
The book is a comprehensive tool for learning about data of various types, including analytics, research, and financial. It details a journey of building up from zero data maturity to full data maturity, covering both analytics and UX research departments, using case studies from real life scenarios. By the end of this book, readers will have a better understanding about gathering and analysing data, then presenting actionable insights that lead to a better game and a better player experience.

CRC Press
September 2026 : 176pp
Pb: 978-1-041-23093-9 : **£51.99**
Hb: 978-1-041-23094-6 : **£130**

* For full contents and more information, visit: www.routledge.com/9781041230939

Data Science for Sustainable Development Goals

Indian Case Studies



Edited by **Avik Sarkar** , **Bappaditya Mukhopadhyay**

The book is an authoritative reference on real-life applications of Data Science and Big Data for SDGs. It includes a list of case studies from different regions across India. It uses both structured and unstructured data like numeric data, textual data, video/image data, etc., across the various chapters for the analysis. It further delves into various data science techniques, such as data collection on the ground in the unavailability of data to a dashboard, reporting, unsupervised methods like clustering, machine learning and deep learning, search or information retrieval, time series forecasting, optimisation, etc. It serves as a valuable reference for students and scholars.

Chapman & Hall
June 2026 : 238pp
Hb: 978-1-032-78131-0 : **£150**

* For full contents and more information, visit: www.routledge.com/9781032781310

Data Science in Healthcare

A Complete Guide



Gayathri Delanerolle , **Yassine Bouchareb** , **Konstantinos V. Katsikopoulos** University of Southampton,UK, **Peter Phiri**

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

This book brings together everything you need to know about data science within healthcare systems, with a primary focus on showing how to advance automated and non-automated analytical methods for extracting valuable insights from healthcare data. It draws upon a range of interconnected disciplines, including machine learning, big data analytics, statistics, pattern recognition, computer vision, and Semantic Web Technologies. The book emphasizes the practical application of these disciplines in the healthcare domain inclusive of quality assurance, governance and regulatory overview.

A K Peters/CRC Press
July 2026 : 258pp
Pb: 978-1-032-78606-3 : **£49.99**
Hb: 978-1-032-79959-9 : **£140**

* For full contents and more information, visit: www.routledge.com/9781032786063

Deep Learning Applications

Select Topics



Edited by **Laith Abualigah**

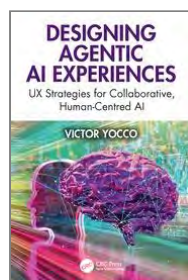
The book is a practical and comprehensive guide to the impact of deep learning in the real world across sectors like healthcare, finance, and autonomous systems. Covering CNNs, RNNs, GANs, and reinforcement learning, the book combines theory with expert insights and case studies. Designed for researchers,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

CRC Press
May 2026 : 168pp
Hb: 978-1-041-10572-5 : **£115**
eBook: 978-1-003-67139-8

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

Designing Agentic AI Experiences

UX Strategies for Collaborative, Human-Centered AI



Victor Yocco

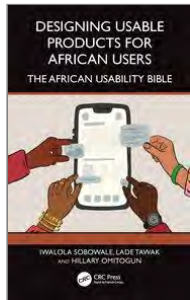
Readers of this book will learn to: ●Design Trust: Use the Trust Battery model to measure and maintain user confidence over time. ●Define Personality: Craft Agent Personas and Relationship Archetypes that align with user expectations. ●Structure Delegation: Implement the Ladder of Autonomy to guide users from simple suggestions to fully automated actions. ●Ensure Safety: Deploy Circuit Breakers and feedback loops that prevent error and keep the human in control. ●Scale Strategy: Establish an Agentic Center of Excellence to govern multi-agent ecosystems across the enterprise.

CRC Press
August 2026 : 192pp
Pb: 978-1-041-23726-6 : **£51.99**
Hb: 978-1-041-23814-0 : **£150**

* For full contents and more information, visit: www.routledge.com/9781041237266

Designing Usable Products for African Users

The African Product Resilience (APR) Framework™



Iwalola Sobowale , Lade Tawak , Hillary Omitogun

Designing Usable Products for African Users: The African Usability Bible dismantles the flawed practice of copying Western design models for African markets. The book introduces the African Product Resilience (APR) Framework, providing actionable steps to engineer technology specifically for adversity. Ultimately, the book empowers tech teams to scale efficiently across diverse African markets without wasting resources, turning systemic constraints into competitive advantages.

CRC Press
October 2026 : 264pp
Pb: 978-1-041-08988-9 : **£51.99**
Hb: 978-1-041-09044-1 : **£150**

* For full contents and more information, visit: www.routledge.com/9781041089889

Digital Accessibility Ethics

Disability Inclusion in All Things Tech



Edited by Lainey Feingold , Régine 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
May 2026 : 456pp
Pb: 978-1-041-01868-1 : **£29.99**
Hb: 978-1-041-01869-8 : **£150**
eBook: 978-1-003-61670-2

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

Digital Farming

Case Studies and Applications of IoT and AI in Agricultural Industry



Edited by T. Chandrakumar , Bhisham Sharma , Subrata Chowdhury , Khaled Rabbie Manchester Metropolitan University, UK

Series: Chapman & Hall/CRC Internet of Things

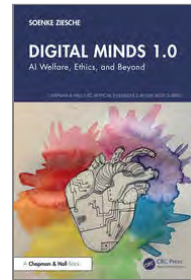
This book explores IoT-based ecosystems and AI-driven automation in agriculture to provide solutions for intelligent farming systems and precision agriculture techniques. It provides a comprehensive view of emerging technologies' integration and the resultant impact on the farming ecosystem. Real-world case studies and examples of IoT and AI applications in agriculture are included to show how IoT and AI have revolutionized conventional agriculture. It also examines the potential and difficulties of deploying IoT and AI in the agricultural business with case studies. It is helpful for professionals, scholars and students of digital farming and sustainable agricultural practices.

Chapman & Hall
October 2026 : 312pp
Hb: 978-1-032-76725-3 : **£160**

* For full contents and more information, visit: www.routledge.com/9781032767253

Digital Minds 1.0

AI Welfare, Ethics, and Beyond



Soenke Ziesche

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

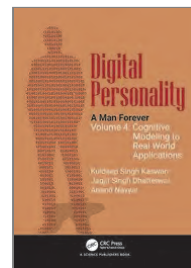
This seminal volume delivers a comprehensive introduction to the emerging field of digital minds, exploring the moral implications of AI systems that can potentially think, feel and experience the world around them in ways that are likely to be very different from humans. Bringing a unique perspective on this critical topic, the book is a groundbreaking contribution to the fields of AI and digital minds. It is essential reading for a broad audience of researchers, academics and professionals in the fields of AI, ethics, philosophy and computer science, as well as general readers interested in the potential implications of emerging technologies on human society and beyond.

Chapman & Hall
June 2026 : 264pp
Pb: 978-1-041-27404-9 : **£31.99**
Hb: 978-1-041-27405-6 : **£120**
eBook: 978-1-003-75420-6

* For full contents and more information, visit: www.routledge.com/9781041274049

Digital Personality: A Man Forever

Volume 4: Cognitive Modeling to Real World Applications



Kuldeep Singh Kaswan School Of Computing Science And Engineering, Galgotias University, **Jagjit Singh Dhatteerwal , Anand Nayyar** Duy Tan University, Vietnam

The book will benefit students, scientists, technocrats, and the common man, 'Digital Personality A Man Forever' unravels the missing link between human cognition and technology. This book gives an idea of the further evolution of digital evolution where in addition to the ability to process information, digital systems exhibit qualities that give them characteristics of sentient companions in the post-industrial world.

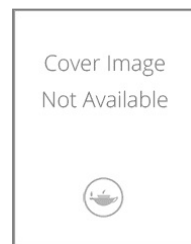
CRC Press
June 2026 : 260pp
Hb: 978-1-041-11733-9 : **£105**
eBook: 978-1-003-66821-3

* For full contents and more information, visit: www.routledge.com/9781041117339

5TH EDITION

Digital Storytelling

A Creator's Guide to Interactive Entertainment, Volume II



Carolyn Handler Miller

Digital Storytelling: A Creator's Guide to Interactive Entertainment, Volume 2, 5th edition, explores current developments in digital media narratives across major genres and platforms, from video games to mobile devices and transmedia storytelling, including the growing influence of AI. A chapter on iCinema and iTV looks at storytelling on massive new venues like the Sphere. The book ends with guidance on the evolving career of the Digital Storyteller, including how to enter and thrive in this fast-changing field.

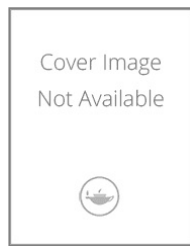
CRC Press
August 2026 : 660pp
Pb: 978-1-032-82323-2 : **£51.99**
Hb: 978-1-032-85892-0 : **£170**

* For full contents and more information, visit: www.routledge.com/9781032823232

5TH EDITION

Digital Storytelling Two Volume Set

A Creator's Guide to Interactive Entertainment

**Carolyn Handler Miller**

Digital Storytelling: A Creator's Guide to Interactive Entertainment 5th edition delves into the fascinating and groundbreaking stories enabled by interactive digital media, examining both fictional and non-fiction narratives. This fifth edition explores monumental developments, particularly the emergence of generative AI, and highlights exciting projects utilizing this technology. Interviews with industry leaders further enhance the understanding of this evolving universe, making it a valuable resource for both professionals and enthusiasts.

CRC Press

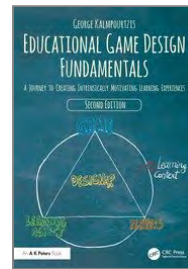
July 2026 : 1072pp

Pb: 978-1-041-34141-3 : **£222**Hb: 978-1-041-34147-5 : **£222*** For full contents and more information, visit: www.routledge.com/9781041341413

2ND EDITION

Educational Game Design Fundamentals

A Journey to Creating Intrinsically Motivating Learning Experiences

**George Kalmpourtzis**

This book embarks on a journey to explore the necessary aspects to create games that are both fun and help players learn. It examines the art of educational game design through various perspectives and presents real examples that will help readers make more informed decisions when creating their own games. Everybody can become educational game designers, no matter what their technical, artistic or pedagogic backgrounds. This book refers to instructional designers, education professionals and designers of all sorts: from kindergarten to lifelong learning, from corporate training to museum curators and from tabletop or video game designers to theme park creators!

A K Peters/CRC Press

July 2026 : 350pp

Pb: 978-1-032-89209-2 : **£51.99**Hb: 978-1-032-89315-0 : **£150*** For full contents and more information, visit: www.routledge.com/9781032892092

Digital Technologies for Underwater Surveillance and Management

Data Analytics and Remote Sensing



Edited by **Vishal Jain** Sharda University, India, **Hamed Taherdoost**, **Arvind Panwar**, **Khadija Slimani**

Series: Chapman & Hall/CRC Cyber-Physical Systems

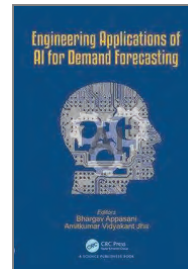
This book provides a technical and practical roadmap for using advanced AI, data analytics, and sensing technologies to safeguard the underwater domain. It covers cutting-edge tools such as synthetic aperture sonar (SAS), LiDAR, hyperspectral imaging, and satellite-based systems for detecting submerged threats, environmental hazards, and illicit maritime activity.

Chapman & Hall

October 2026 : 414pp

Hb: 978-1-041-14398-7 : **£86.99*** For full contents and more information, visit: www.routledge.com/9781041143987

Engineering Applications of AI for Demand Forecasting



Edited by **Bhargav Appasani**, **Amitkumar Vidyakant Jha** (KIIT) University, India

Engineering Applications of AI for Demand Forecasting explores how Artificial Intelligence enhances prediction accuracy across modern engineering systems. As industries move toward Industry 4.0, the book highlights the role of AI in processing large, dynamic datasets for smarter decision-making. This book brings together contemporary research that demonstrates AI's ability to enhance precision, efficiency, and adaptability in diverse forecasting environments. By covering cybersecurity analytics, anomaly detection, logistics forecasting, sustainable supply chain management, and predictive maintenance, it demonstrates AI's versatility in complex environments.

CRC Press

June 2026 : 296pp

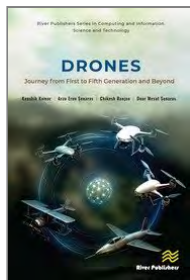
Hb: 978-1-032-86383-2 : **£125**

eBook: 978-1-003-54187-5

* For full contents and more information, visit: www.routledge.com/9781032863832

DRONES

Journey from First to Fifth Generation and Beyond



Kaushik Kumar, **Arzu Eren Şenaras**, **Chikesh Ranjan**, **Onur Mesut Şenaras**

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

This comprehensive volume offers a global, interdisciplinary examination of drone technology, charting its progression from early radio-controlled aircraft to today's intelligent, autonomous systems. Across nine concise chapters, the book delivers a clear, step-by-step understanding of UAV evolution, core engineering principles, and real-world applications. It spans the full arc of the drone revolution—from manually controlled prototypes of the early 1900s to fifth-generation, AI-driven swarms that define modern aerospace innovation. Each chapter integrates historical context, technical foundations, and forward-looking insights.

River Publishers

July 2026 : 388pp

Hb: 978-8-743-81239-5 : **£115*** For full contents and more information, visit: www.routledge.com/9788743812395

Enhancing Modern Living with Virtual and Augmented Reality

Practical Applications

**Kinga Stecula**, **Radosław Wolniak**

Series: CRC Press Reference Books in Computer Science

This book explores the role of virtual and augmented reality (AR and VR) in today's evolving digital landscape, examining how these technologies are shaping society and how they might evolve in the future. Critical discussions include the technical, ethical, and societal implications of AR and VR, with a focus on pressing issues such as data privacy, cybersecurity, accessibility, the digital divide, and the psychological effects of immersive experiences. It is an invaluable resource for students, researchers, and professionals interested in the interdisciplinary nature of AR and VR, and bridges fields such as computer science, psychology, media studies, tourism, and urban studies.

CRC Press

May 2026 : 166pp

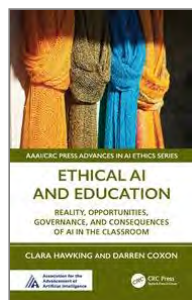
Hb: 978-1-041-08028-2 : **£110**

eBook: 978-1-003-64339-5

* For full contents and more information, visit: www.routledge.com/9781041080282

Ethical AI and Education

Reality, Opportunities, Governance, and Consequences of AI in the Classroom



Clara Hawking, Darren Coxon

Series: AAAI/CRC Press Advances in AI Ethics Series

The book addresses core issues including bias, datafication, academic integrity, teacher agency, and global inequality, while placing recent developments such as generative AI within a longer trajectory of educational technology. Drawing on international frameworks, including the European Union Artificial Intelligence Act, it provides practical guidance for schools seeking to implement AI in ways that are lawful, accountable, and educationally meaningful. The central argument is that ethical AI in education depends not on tools alone, but on structures of oversight, professional judgment, and institutional responsibility.

CRC Press
September 2026 : 216pp
Pb: 978-1-041-12090-2 : **£51.99**
Hb: 978-1-041-12091-9 : **£120**

* For full contents and more information, visit: www.routledge.com/9781041120902

Explainable Artificial Intelligence and Interpretable Machine Learning in Education

A Researcher's Guide to Data Science



Edited by Myint Swe Khine

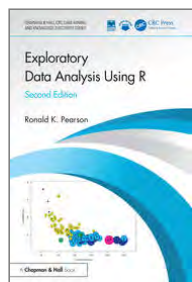
Explainable AI (XAI) and interpretable machine learning (ML) are becoming essential in educational research, offering transparency and practical insight. This book provides a comprehensive guide to applying these technologies to analyze data, assess learning, and design adaptive environments while maintaining ethical and interpretable AI use. Blending theory, real-world examples, and interdisciplinary perspectives, it highlights emerging trends, challenges, and opportunities, offering educators and researchers practical guidance for improving teaching, learning, and educational decision-making.

CRC Press
August 2026 : 264pp
Hb: 978-1-041-14901-9 : **£105**

* For full contents and more information, visit: www.routledge.com/9781041149019

2ND EDITION

Exploratory Data Analysis Using R



Ronald K. Pearson GeoVera Holdings, Inc., CA, USA

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

Exploratory Data Analysis Using R provides a classroom-tested introduction to exploratory data analysis (EDA), and this revised edition is accompanied by the R package ExploreTheData. The primary focus is on identifying "interesting" features - good, bad, and ugly - in a dataset, why it is important to find them, how to treat them, and the use of R to explore and explain datasets and the analysis results derived from them. The book is designed for both advanced undergraduate, entry-level graduate students, and working professionals with little to no prior experience. Exercises conclude most chapters, and an instructor's solution manual is available.

Chapman & Hall
June 2026 : 592pp
Pb: 978-1-032-81480-3 : **£51.99**
Hb: 978-1-032-81481-0 : **£94.99**

* For full contents and more information, visit: www.routledge.com/9781032814803

Facial Animation in 3D, Games, and Extended Realities



Amrinder Singh Romana

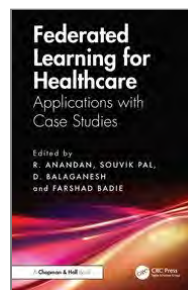
This book explores how the digital face has become a vital medium of expression, emotion, and identity in contemporary visual culture. Integrating artistic practice, anatomical understanding, and technological innovation, the book charts the evolution of facial animation from traditional rigging and motion capture to the new frontiers of real-time performance and immersive environments. It provides animators, researchers, and creative technologists with a framework for designing and interpreting digital faces. It demonstrates how facial performance continues to evolve across 3D cinema, interactive games, and extended realities, transforming how we connect within virtual worlds.

CRC Press
August 2026 : 200pp
Pb: 978-1-032-81347-9 : **£51.99**
Hb: 978-1-032-82065-1 : **£130**

* For full contents and more information, visit: www.routledge.com/9781032813479

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**

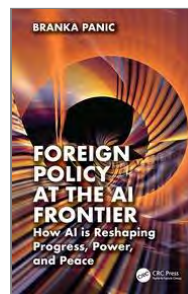
The book offers an in-depth exploration of federated learning and its transformative impact on the healthcare industry. It begins by introducing the foundational concepts of federated learning, including its methods and applications within various healthcare domains.

Chapman & Hall
June 2026 : 294pp
Hb: 978-1-032-97810-9 : **£150**
eBook: 978-1-003-59554-0

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

Foreign Policy at the AI Frontier

How AI is Reshaping Progress, Power, and Peace



Branka Panic

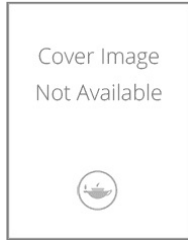
This book is a comprehensive guide for foreign policy practitioners navigating the transformative impact of AI on diplomacy and statecraft. It explores how AI technologies are reshaping the landscape of international relations, offering new tools for economic strategy, crisis response, defense, and transnational cooperation. Surveying the use of AI in both enhancing and complicating foreign affairs, the book addresses ethical and legal concerns and proposes strategies for leveraging AI responsibly. It includes various case studies on the deployment of AI in real-world scenarios and offers strategic insights for foreign affairs professionals, policymakers, and scholars.

CRC Press
July 2026 : 216pp
Pb: 978-1-041-08292-7 : **£51.99**
Hb: 978-1-041-08293-4 : **£120**

* For full contents and more information, visit: www.routledge.com/9781041082927

Foundations of Robotics

Mechatronics, Cybernetics and AI



Charles W. Fox, Jonathan Aitken

Bridging foundational theory and real-world applications, this book is core course reading for advanced undergraduate and graduate students of robotics, mechatronics, and artificial intelligence. It is also a valuable resource for maker communities, equipping them with the skills needed to succeed in this cutting-edge field.

CRC Press

November 2026 : 440pp

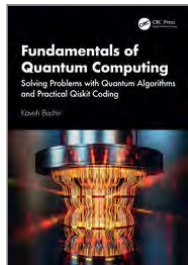
Pb: 978-1-032-81801-6 : **£55.99**

Hb: 978-1-032-84453-4 : **£120**

* For full contents and more information, visit: www.routledge.com/9781032818016

Fundamentals of Quantum Computing

Solving Problems with Quantum Algorithms and Practical Qiskit Coding



Kaveh Bashiri

This book provides a practical guide to solving problems with quantum algorithms and hands-on Qiskit coding. It introduces the theoretical foundations of quantum computing in a concise and accessible way, enabling readers to quickly grasp the essentials and apply them to real-world programming tasks.

CRC Press

September 2026 : 262pp

Pb: 978-1-041-21333-8 : **£49.99**

Hb: 978-1-041-21332-1 : **£110**

* For full contents and more information, visit: www.routledge.com/9781041213338

Game AI Uncovered

Volume Five



Edited by **Paul Roberts**

Game AI Uncovered: Volume Five continues the series with another collection of chapters from twenty-three 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

May 2026 : 284pp

Pb: 978-1-032-84053-6 : **£51.99**

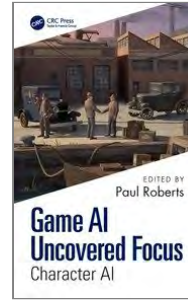
Hb: 978-1-041-05321-7 : **£140**

eBook: 978-1-003-63226-9

* For full contents and more information, visit: www.routledge.com/9781032840536

Game AI Uncovered Focus

Character AI



Edited by **Paul Roberts**

Paul Roberts' Game AI Uncovered Focus: Character AI brings together twenty chapters from the first six volumes of the Game AI Uncovered series into a handy single volume that focuses on the many different aspects of character AI in game development. 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 your own games but also spark ideas for new approaches.

CRC Press

September 2026 : 208pp

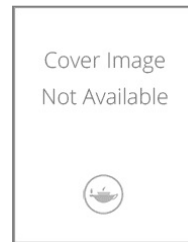
Pb: 978-1-041-30606-1 : **£51.99**

Hb: 978-1-041-30607-8 : **£130**

* For full contents and more information, visit: www.routledge.com/9781041306061

Game AI Uncovered Focus

Decision-Making



Edited by **Paul Roberts**

Paul Roberts' Game AI Uncovered Focus: Decision-Making brings together twenty chapters from the first five volumes of the Game AI Uncovered series into a handy single volume that focuses on the many different aspects of decision-making in game development. 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 your own games but also spark ideas for new approaches.

CRC Press

October 2026 : 224pp

Pb: 978-1-041-30608-5 : **£51.99**

Hb: 978-1-041-30609-2 : **£130**

* For full contents and more information, visit: www.routledge.com/9781041306085

Game Design Deep Dive

Cozy Games



Joshua Bycer

Series: Game Design Deep Dive

Game Design Critic Josh Bycer continues the Deep Dive series with an examination on cozy games. The market for coziness has grown dramatically thanks to showcases like Wholesome Direct and consumers wanting something to help them relax in a stressful world. Looking at what does it mean to build a low stakes game while still offering progression and rewards to keep people invested.

CRC Press

August 2026 : 128pp

Pb: 978-1-041-08776-2 : **£51.99**

Hb: 978-1-041-08777-9 : **£150**

* For full contents and more information, visit: www.routledge.com/9781041087762

GenAI Security

Secure Chatbots and Agent Systems



Paul Zenker

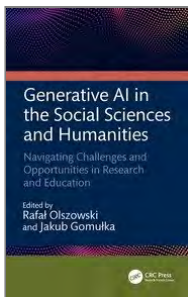
This book is an essential guide for anyone looking to build secure and resilient generative AI applications. It provides actionable insights into identifying vulnerabilities and preventing attacks. Authored by security expert Paul Zenker, the book explores the critical aspects of securing GenAI systems across their lifecycle - design, development, and operation. Through numerous practical examples, detailed illustrations of threat scenarios, and application architectures, readers will gain a comprehensive understanding of potential risks.

Chapman & Hall
June 2026 : 166pp
Pb: 978-1-041-21329-1 : **£49.99**
Hb: 978-1-041-21328-4 : **£110**
eBook: 978-1-003-72669-2

* For full contents and more information, visit: www.routledge.com/9781041213291

Generative AI in the Social Sciences and Humanities

Navigating Challenges and Opportunities in Research and Education



Edited by **Rafal Olszowski , Jakub Gomułka**

This book examines how Generative AI is transforming how we learn, teach, and conduct research, offering an accessible and authoritative guide for scholars, educators, and professionals navigating the opportunities and risks of AI in the social sciences and humanities. The book covers a broad landscape: from the evolution and taxonomy of AI, to its uses in disinformation studies, academic integrity, and specialized professional training. It includes empirical insights from focus groups and classroom research, detailed analyses of LLM-driven risks, as well as practical applications like AI-enhanced tutoring and dataset governance.

CRC Press
August 2026 : 272pp
Hb: 978-1-041-14370-3 : **£120**

* For full contents and more information, visit: www.routledge.com/9781041143703

Green Cyber-physical Systems

IoT and Blockchain for Sustainable Next-generation Integrated Systems



Edited by **Usha Desai**

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

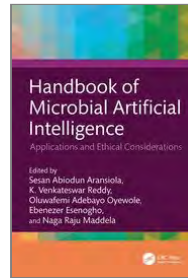
In a world racing toward digital transformation, the need for sustainable, intelligent, and secure systems is greater than ever. This volume unites pioneering research and practical innovations in cyber-physical systems (CPS) powered by IoT, Blockchain, AI, and post-quantum cybersecurity to tackle pressing environmental, industrial, and societal challenges. Ideal for researchers, practitioners, policymakers, and students, this collection offers a comprehensive roadmap to the sustainable convergence of the physical and digital worlds—building a smarter, safer, and more eco-conscious future.

River Publishers
July 2026 : 548pp
Hb: 978-8-743-80931-9 : **£120**

* For full contents and more information, visit: www.routledge.com/9788743809319

Handbook of Microbial Artificial Intelligence

Applications and Ethical Considerations



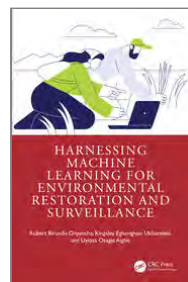
Edited by **Sesan Abiodun Aransiola , Kondakindi Venkateswar Reddy** Uni. College of Eng. Sci. and Tech, India, **Oluwafemi Adebayo Oyewole** Federal Univ. of Tech., **Ebenezer Esenogho , Naga Raju Maddela** Uni. College of Eng. Sci. and Tech, India

This book explores the transformative intersection of AI and microbiology, introducing the concept of microbial artificial intelligence (MAI). It provides a comprehensive overview of fundamental AI concepts, practical applications, limitations, ethical considerations, and future opportunities in this emerging field.

CRC Press
August 2026 : 300pp
Hb: 978-1-041-21491-5 : **£170**

* For full contents and more information, visit: www.routledge.com/9781041214915

Harnessing Machine Learning for Environmental Restoration and Surveillance



Robert Birundu Onyancha , Kingsley Eghonghon Ukhurebor , Uyiosa Osagie Aigbe

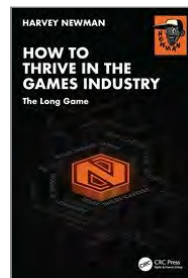
Harnessing Machine Learning for Environmental Restoration and Surveillance is an extensive and comprehensive book, showcasing the applications of machine learning and artificial intelligence in environmental monitoring of the quality of air, soil and water, prediction of environmental risks, optimisation and prediction of remediation processes and enhancement of resource management. The content and coverage of this academic text are ideal for undergraduate and postgraduate students, researchers, professionals in environmental science, data science, and engineering, as well as individuals interested in the environment and technology.

CRC Press
June 2026 : 148pp
Hb: 978-1-041-02197-1 : **£120**
eBook: 978-1-003-61858-4

* For full contents and more information, visit: www.routledge.com/9781041021971

How to Thrive in the Games Industry

The Long Game



Harvey Newman

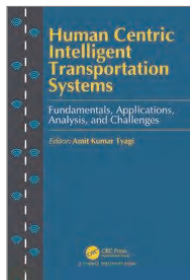
This book is a candid, practical, and inspiring look at building a sustainable, fulfilling career in game development. Drawing on over twenty years of experience across AAA studios and indie teams, Harvey Newman shares the real lessons learned from inside the trenches—covering everything from breaking into the industry to navigating layoffs, leadership challenges, studio politics, and burnout. The book is written for game developers of all levels: students, juniors seeking their first role, mid-level professionals trying to grow, and veterans aiming to stay motivated and adaptable in a fast-changing field.

CRC Press
May 2026 : 246pp
Pb: 978-1-041-01993-0 : **£49.99**
Hb: 978-1-041-01992-3 : **£130**
eBook: 978-1-003-61727-3

* For full contents and more information, visit: www.routledge.com/9781041019930

Human Centric Intelligent Transportation Systems

Fundamentals, Applications, Analysis, and Challenges



Amit Kumar Tyagi

Today Human Centric Intelligent Transportation Systems (H-ITS) utilize advanced technologies and human-centered design to improve urban mobility, safety, and efficiency for all users. These systems integrate AI, IoT, and smart infrastructure, focusing on practical implementations like real-time traffic management, autonomous vehicles, and public transit optimization, while addressing future challenges and applications for more sustainable, accessible, and user-focused transportation solutions. This book is dedicated to focused such issues and provide effective solutions for the same to research community.

CRC Press
June 2026 : 408pp
Hb: 978-1-041-09241-4 : **£105**
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* For full contents and more information, visit: www.routledge.com/9781041092414

Human-AI Collaboration in Research

Practical Applications, Ethical Frameworks, and Future Directions



Ida Skubis , Daniel Xerri , Mladen Adamovic

Human-AI Collaboration in Research: Practical Applications, Ethical Frameworks, and Future Directions positions human-AI collaboration (HAIC) as a defining feature of contemporary research ecosystems. The book examines the incorporation of AI across the research lifecycle, including research design, literature work, data collection and processing, analysis, interpretation, academic writing, and dissemination. It highlights the opportunities created by automation and generative systems, alongside the challenges raised for research integrity, accountability, transparency, privacy, and epistemic authority.

CRC Press
May 2026 : 80pp
Hb: 978-1-041-33163-6 : **£54.99**
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* For full contents and more information, visit: www.routledge.com/9781041331636

Human-Centered Artificial Intelligence For Industrial Safety



Joanna Rosak-Szyrocka , Radosław Wolniak , Michalene Eva Grebski

Series: Knowledge-based Engineering for Innovation

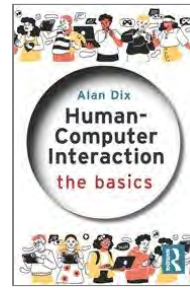
This book examines the transformative role of artificial intelligence (AI) in industrial safety, focusing on the shift from traditional reactive systems to proactive, predictive safety architectures in smart factories. It explores how AI technologies, including machine learning, computer vision, biometrics, wearables, augmented reality, and digital twins, are revolutionising occupational health and safety across industries such as manufacturing, logistics, energy, aviation, and construction. The book also highlights the integration of AI-enabled safety systems, addressing real-time risk monitoring, predictive maintenance, employee well-being, and accident prevention.

Chapman & Hall
September 2026 : 280pp
Hb: 978-1-041-26952-6 : **£86.99**

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Human-Computer Interaction

The Basics



Alan Dix Swansea University, Fabian Way, Swansea, Wales

Series: The Basics

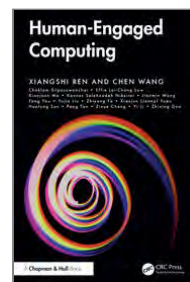
This book begins by exploring key topics such as understanding the human context in which systems are deployed, applying design and evaluation methods, and building and deploying human-focused software. Later chapters examine the social and ethical implications of digital technology and underlying theory and research, incorporating insights from psychological and social science perspectives. For those aiming to understand how the systems around them have been designed, or are seeking guidance to improve design processes, this book offers valuable insights to support the creation of better, more effective systems.

Routledge
September 2026 : 162pp
Pb: 978-1-041-09517-0 : **£19.99**
Hb: 978-1-041-09518-7 : **£155**

* For full contents and more information, visit: www.routledge.com/9781041095170

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
May 2026 : 340pp
Hb: 978-1-032-75294-5 : **£150**
eBook: 978-1-003-48683-1

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

Information Design

Design for Engagement



Edited by Yvonne Eriksson Mälardalen University, Eskilstuna, Sweden

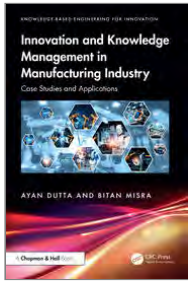
Information Design is an interdisciplinary academic field that brings together scholars from diverse backgrounds, including visual communication, applied linguistics, human-computer interaction, social sciences, and the humanities. The focus is on theories and methods that provide insights into how people navigate and use information in various contexts.

CRC Press
August 2026 : 318pp
Hb: 978-1-032-64257-4 : **£140**

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Innovation and Knowledge Management in Manufacturing Industry

Case Studies and Applications



Ayan Dutta, Bitan Misra

Series: Knowledge-based Engineering for Innovation

Innovation and Knowledge Management in Manufacturing Industry: Case Studies and Applications is a valuable resource to organizations in the modern manufacturing setting where change is fast, competition is intense, and where technological changes take place continuously. The book provides a thorough analysis of the crucial connection between the practices of innovation and knowledge management systems and introduces a detailed framework that is meant to help manufacturers cope with the challenges related to digital transformation and the incorporation of Industry 4.0 technologies.

Chapman & Hall
July 2026 : 168pp
Hb: 978-1-041-20694-1 : **£68.99**

* For full contents and more information, visit: www.routledge.com/9781041206941

Innovation in Africa for Industry 4.0

AI, Data Analytics and Digital Transformation



Edited by Abejide Ade-Ibijola University of Johannesburg, *Solomon Oyelere, Jude Osakwe*

Series: Artificial Intelligence, Data Analytics, and Digital Transformation for Sustainable Development in Africa

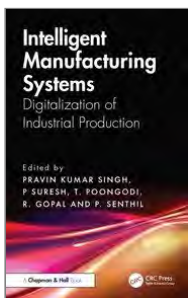
This book explores how AI, blockchain, and machine learning are transforming industries, particularly in Africa. It addresses how these technologies can drive sustainable development, improve governance, and solve challenges in sectors like education, agriculture, and finance. With practical examples, it provides insights into their potential while discussing risks such as cybersecurity and data privacy. This book is for scholars, professionals, and policymakers interested in the role of emerging technologies in sustainable development, especially in Africa.

Chapman & Hall
July 2026 : 300pp
Hb: 978-1-041-06756-6 : **£140**

* For full contents and more information, visit: www.routledge.com/9781041067566

Intelligent Manufacturing Systems

Digitalization of Industrial Production



Edited by Pravin Kumar Singh, P. Suresh Galgotias Uni., *T. Poongodi, R. Gopal, P. Senthil*

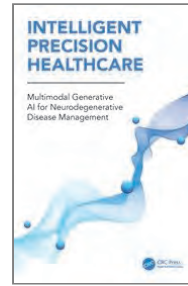
This book offers an in-depth exploration of the evolution, implementation, and impact of modern technologies in manufacturing. The book provides a comprehensive analysis of Cyber-Physical Systems (CPSs), the Internet of Things (IoT), Cloud computing, Artificial Intelligence (AI), and Big Data analytics, demonstrating their role in optimizing design, production, and management processes. With detailed case studies, structured literature reviews, and real-world applications, this guide is an essential resource for scholars, researchers, and professionals aiming to understand and leverage the advancements in Intelligent Manufacturing Systems.

Chapman & Hall
October 2026 : 312pp
Hb: 978-1-032-94935-2 : **£86.99**

* For full contents and more information, visit: www.routledge.com/9781032949352

Intelligent Precision Healthcare

Multimodal Generative AI for Neurodegenerative Disease Management



Edited by Deepika Koundal, Mudassir Khan Assistant Professor, Department of Computer Science, King Khalid University, Abha, King Faisal, Tanumah, Asir, Saudi Arabia 62715, *Rupali Atul Mahajan, Rajesh Dey*

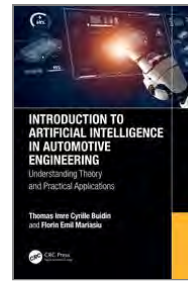
Artificial Intelligence is reshaping modern healthcare in remarkable ways. This book explores how multimodal generative AI integrates clinical, genetic, and imaging data to improve the understanding and management of neurodegenerative diseases. Bridging technology and medicine, it offers accessible insights into next-generation precision healthcare and its real-world impact. Designed for researchers, clinicians, and informed readers alike, it highlights practical applications, ethical considerations, and future possibilities in AI-driven neurological care.

CRC Press
October 2026 : 336pp
Hb: 978-1-041-12867-0 : **£120**

* For full contents and more information, visit: www.routledge.com/9781041128670

Introduction to Artificial Intelligence in Automotive Engineering

Understanding Theory and Practical Applications



Thomas Imre Cyrille Buidin, Florin Emil Mariasiu

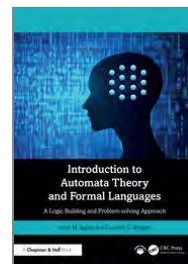
This book serves as a practical and timely guide to understanding how artificial intelligence can be applied and leveraged in automotive engineering. It demystifies complex methods of applying artificial intelligence and provides readers with the tools to creatively and immediately apply them to their own engineering challenges, transforming information into knowledge. The book represents an essential guide for all those interested in exploring the application of artificial intelligence in automotive engineering (and beyond) and equally constitutes an effective support in the teaching process (courses, laboratories, projects) of applied artificial intelligence concepts.

CRC Press
June 2026 : 306pp
Pb: 978-1-041-23722-8 : **£49.99**
Hb: 978-1-041-23816-4 : **£110**
eBook: 978-1-003-73839-8

* For full contents and more information, visit: www.routledge.com/9781041237228

Introduction to Automata Theory and Formal Languages

A Logic Building and Problem-solving Approach



Amol M. Jagtap, Gautami G. Shingan

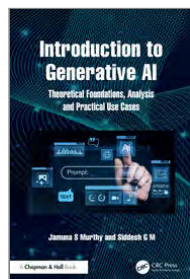
This book provides a structured introduction to automata theory, bridging theoretical foundations with practical applications. It explores fundamental concepts like deterministic and non-deterministic finite automata, context-free grammars, pushdown automata, and Turing machines. It emphasises problem-solving, critical thinking, and real-world applications in areas such as compiler design, natural language processing, and network protocols. It is an essential resource for students and professionals in computer science, providing the logical foundation and problem-solving skills needed for careers in theoretical computing, artificial intelligence, and software engineering.

Chapman & Hall
July 2026 : 348pp
Pb: 978-1-041-10957-0 : **£78.99**
Hb: 978-1-041-11700-1 : **£94.99**

* For full contents and more information, visit: www.routledge.com/9781041109570

Introduction to Generative AI

Theoretical Foundations, Analysis and Practical Use Cases



Jamuna S Murthy , Siddesh G M M S Ramaiah Institute of Technology, Bangalore

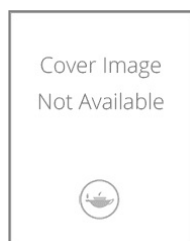
Generative Artificial Intelligence is reshaping how we create, learn, and imagine. This book offers a clear and complete journey through the science and art behind this revolution — from how machines learn to produce text, images, and music, to how they are being built, tested, and applied in the real world. Introduction to Generative AI: Theoretical Foundations, Analysis and Practical Use Cases is an essential guide for anyone curious about how artificial intelligence is shaping the next chapter of human innovation.

Chapman & Hall
July 2026 : 376pp
Hb: 978-1-032-98848-1 : **£89.99**

* For full contents and more information, visit: www.routledge.com/9781032988481

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 2028 : 400pp
Pb: 978-1-482-25293-4 : **£56.99**
Hb: 978-1-138-30445-1 : **£150**

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

Knowledge Graph and Semantic Web Technology based XAI



Edited by **T. Poongodi** Galgotias University, India, **Runumi Devi** , **S. Prakash** , **T. Ganesh Kumar** Galgotias Uni.

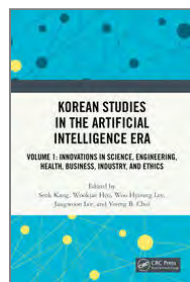
This book presents a semantic-based explainable framework based on knowledge graph and semantic web technology focusing on designing XAI system that transforms black-box AI model into a comprehensive and meaningful AI model that users can leverage. It discusses ontology using OWL for capturing concepts and the relationship amongst concepts in the domain of discourse. The book also includes First Order Logic (FOL)-mathematical tool, as the foundation of knowledge representation and reasoning. Researchers, students and professionals in computer science find this book helpful.

Chapman & Hall
June 2026 : 240pp
Pb: 978-1-032-62681-9 : **£51.99**
Hb: 978-1-032-62452-5 : **£86.99**

* For full contents and more information, visit: www.routledge.com/9781032626819

Korean Studies in the Artificial Intelligence Era

Volume 1: Innovations in Science, Engineering, Health, Business, Industry, and Ethics



Edited by **Seok Kang** , **Wookjae Heo** , **Woo Hyung Lee** , **Jangwoon Lee** , **Young B. Choi**

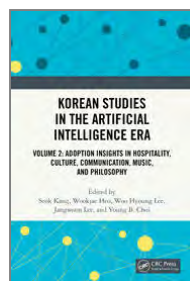
This two-volume book offers an in-depth exploration of Korea's multidisciplinary advancements in Artificial Intelligence (AI). It showcases how Korean and Korean American scholars utilize diverse methodologies, including systematic literature reviews, empirical research, and industry case studies, to illustrate AI's transformative impacts across fields like engineering, business, health, and education. This book targets the industry practitioner with rigorous AI insights and real-world applications, serving as a useful guide. With high research standards and diverse methodologies, this book can be used for graduate-level studies, serving as a useful reference resource.

CRC Press
May 2026 : 286pp
Hb: 978-1-041-15840-0 : **£160**
eBook: 978-1-003-68146-5

* For full contents and more information, visit: www.routledge.com/9781041158400

Korean Studies in the Artificial Intelligence Era

Volume 2: Adoption Insights in Hospitality, Culture, Communication, Music, and Philosophy



Edited by **Seok Kang** , **Wookjae Heo** , **Woo Hyung Lee** , **Jangwoon Lee** , **Young B. Choi**

This two-volume book offers an in-depth exploration of Korea's multidisciplinary advancements in Artificial Intelligence (AI). This book targets the industry practitioner with rigorous AI insights and real-world applications, serving as a useful guide. With high research standards and diverse methodologies, this book can be used for graduate-level studies, serving as a useful reference resource.

CRC Press
May 2026 : 252pp
Hb: 978-1-041-15842-4 : **£160**
eBook: 978-1-003-68147-2

* For full contents and more information, visit: www.routledge.com/9781041158424

Large Language Models and Prompt Engineering

A Comprehensive Guide with Practical Applications



Mohammad Amin Kuhail , **Mohammad Tubishat** , **Sarah Kohail** , **Maha Hadid**

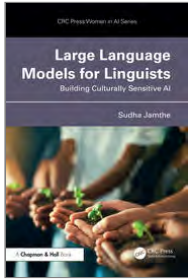
Beginning with the fundamentals of LLMs and prompt engineering, this book progressively explores advanced prompting techniques, application and interaction frameworks, and the underlying architectures that power modern language models. Dedicated chapters examine how LLMs are being applied in high-impact domains such as healthcare, customer support, and education, highlighting design principles, implementation considerations, and illustrative case studies. The book also addresses model fine-tuning, evaluation methods, and the ethical, social, and regulatory challenges associated with deploying LLMs at scale.

Chapman & Hall
September 2026 : 266pp
Pb: 978-1-041-04116-0 : **£51.99**
Hb: 978-1-041-04118-4 : **£94.99**

* For full contents and more information, visit: www.routledge.com/9781041041160

Large Language Models for Linguists

Building Culturally Sensitive AI



Sudha Jamthe

Series: CRC Press Women in AI Series

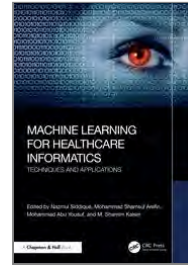
Bridges the gap between linguistics and technology. It provides an in-depth education on large language models for linguists and demonstrates how AI is being taught today using language as data without the nuances of language. It gives a playbook for linguists to get involved in teaching AI in a way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

Chapman & Hall
August 2026 : 260pp
Pb: 978-1-032-88955-9 : **£51.99**
Hb: 978-1-032-88956-6 : **£130**

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

Machine Learning for Healthcare Informatics

Techniques and Applications



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

This book explores how advanced machine learning techniques are transforming healthcare, highlighting innovative applications in disease diagnosis, treatment, and healthcare management. It shows that adaptation of machine learning can bring significant benefits for the sustainability of healthcare informatics in the era of 4.0 IR. With contributions from researchers and field experts, the book covers key topics such as predictive analytics, medical image processing, and personalized healthcare. Designed for those seeking to apply machine learning in healthcare and to advance healthcare informatics, this book is a valuable resource for researchers, professionals, and students.

Chapman & Hall
May 2026 : 264pp
Hb: 978-1-032-64333-5 : **£115**
eBook: 978-1-032-65071-5
* For full contents and more information, visit: www.routledge.com/9781032643335

Large Language Models in Healthcare

Opportunities, Applications, and Challenges



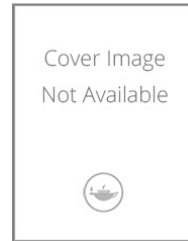
Edited by **Hazrat Ali**, **Mubashir Husain Rehmani**

This book offers a timely introduction to the rapidly evolving role of artificial intelligence in modern healthcare. Designed for a broad audience, including students, practitioners, researchers, and librarians, it provides clear explanations and a solid conceptual foundation for understanding current advances and anticipating future breakthroughs in healthcare AI.

CRC Press
September 2026 : 240pp
Hb: 978-1-041-08301-6 : **£120**
* For full contents and more information, visit: www.routledge.com/9781041083016

Machine Translation

Best Practices using Deep Learning and Generative AI

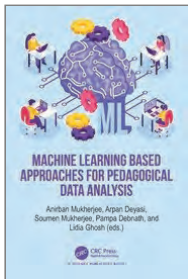


Edited by **Elizabeth Sherly**, **Leena G Pillai**, **Kavya Manohar**, **John McCrae**

This book provides an in-depth discussion of the evolution of machine translation from rule-based systems to advanced deep learning models and Large Language Models (LLMs). This comprehensive guide covers traditional approaches, Statistical Machine Translation (SMT), and the transformative impact of neural networks and transformers. It explores the practical applications of LLMs like GPT, addressing evaluation metrics and ongoing research challenges. This book bridges theoretical foundations with real-world applications, offering valuable insights into the future of machine translation technology to understand the full spectrum of machine translation advancements.

Chapman & Hall
November 2026 : 448pp
Hb: 978-1-032-97232-9 : **£205**
* For full contents and more information, visit: www.routledge.com/9781032972329

Machine Learning based Approaches for Pedagogical Data Analysis



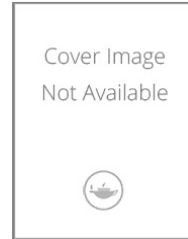
Edited by **Anirban Mukherjee** RCC Institute of Information Technology, **Arpan Deyasi** RCC Institute of Information Technology, **Soumen Mukherjee**, **Pampa Debnath** RCC Institute of Technology, **Lidia Ghosh**

This book offers cutting-edge Intelligent Tools and Techniques that use AI-based Teaching-Learning approaches to enhance education. It describes methods of self-learning with aid of updated library resources that encourage informal learning. It has been demonstrated that teaching assistants' use of NLP and NLU software facilitates quicker and easier communication. The book provides a useful manual for utilizing smart technology to improve learning experiences, complete with models for expandable AI and instances of educational data analysis.

CRC Press
June 2026 : 268pp
Hb: 978-1-032-87190-5 : **£115**
eBook: 978-1-003-55951-1
* For full contents and more information, visit: www.routledge.com/9781032871905

Machine Unlearning

Principles, Methods, and Evolving Frontiers



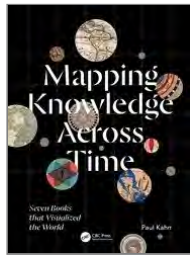
Bitan Misra, **Sayan Chakraborty**, **Nilanjan Dey** JIS Univ, India

This book explores one of the most critical and emerging fields in artificial intelligence, machine unlearning. As data privacy concerns grow and regulations like GDPR demand compliance, this book provides a comprehensive guide to selectively removing learned information from machine learning models without sacrificing performance or requiring complete retraining. Covering foundational principles, advanced algorithms, benchmarking tools, and real-world case studies in healthcare, finance, and social media, the book bridges the gap between theory and practice. This book is an essential resource for understanding and implementing machine unlearning in the era of responsible AI.

Chapman & Hall
October 2026 : 136pp
Hb: 978-1-041-29531-0 : **£86.99**
* For full contents and more information, visit: www.routledge.com/9781041295310

Mapping Knowledge Across Time

Seven Books that Visualized the World



Paul Kahn

What patterns do we use to represent knowledge of the world? Opening seven books side by side, Mapping Knowledge Across Time asks these difficult questions.

CRC Press

July 2028 : 336pp

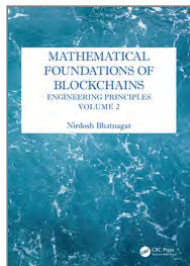
Pb: 978-1-041-14892-0 : **£51.99**

Hb: 978-1-041-39279-8 : **£49.99**

* For full contents and more information, visit: www.routledge.com/9781041148920

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

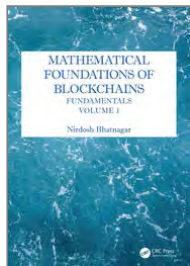
June 2026 : 448pp

Hb: 978-1-032-97964-9 : **£160**

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

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.

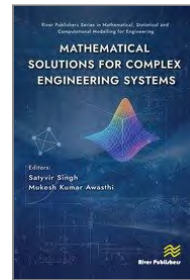
CRC Press

June 2026 : 512pp

Hb: 978-1-032-97961-8 : **£160**

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

Mathematical Solutions for Complex Engineering Systems



Edited by **Satyvir Singh , Mukesh Kumar Awasthi**

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

In an era where engineering challenges are becoming increasingly multifaceted, Mathematical Solutions for Complex Engineering Systems serves as a comprehensive guide bridging the gap between theory and real-world applications. This book explores advanced mathematical modeling techniques, computational approaches, and optimization strategies that drive innovation across various engineering disciplines. Designed for researchers, engineers, and graduate students, this book provides a robust foundation in mathematical techniques and their practical applications.

River Publishers

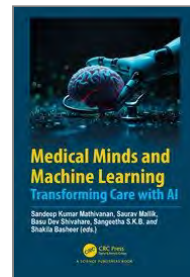
July 2026 : 392pp

Hb: 978-8-743-80668-4 : **£110**

* For full contents and more information, visit: www.routledge.com/9788743806684

Medical Minds and Machine Learning

Transforming Care with AI



Edited by **Sandeep Kumar Mathivanan , Saurav Mallik**
University of Arizona, US, **Basu Dev Shivahare ,**
Sangeetha S.K.B , Shakila Basheer

A comprehensive guide to technologies and applications of AI in healthcare. It navigates through the foundational principles of machine learning, dives into real-world implementations such as radiology diagnostics, robotic surgery, and predictive analytics, and addresses key topics like NLP of EHRs and AI assisted drug discovery.

CRC Press

July 2026 : 338pp

Hb: 978-1-041-21286-7 : **£105**

* For full contents and more information, visit: www.routledge.com/9781041212867

Modern Computing

Principles and Paradigms



Edited by **Sukhpal Singh Gill** Queen Mary Uni London, UK.

This book provides a comprehensive text and reference on modern computing, covering the most recent paradigms, systems and architectures that have revolutionised computational intelligence through the use of cutting-edge Artificial Intelligence of Things (AIoT) applications. It presents research on areas of communications, networking and emerging technologies, Digital Twins, Edge AI, Industrial Internet of Things (IIoT). With particular emphasis the areas of AI, next generation computing and cloud computing, this book will be of great use to postgraduates and researchers across computer science and engineering, information technology, electronics and communication and data science.

CRC Press

September 2026 : 280pp

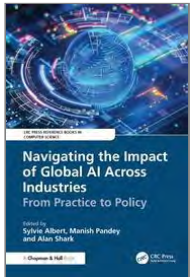
Pb: 978-1-041-34026-3 : **£51.99**

Hb: 978-1-041-34190-1 : **£150**

* For full contents and more information, visit: www.routledge.com/9781041340263

Navigating the Impact of Global AI Across Industries

From Practice to Policy



Edited by **Sylvie Albert** University of Winnipeg, Canada, **Manish Pandey**, **Alan Shark**

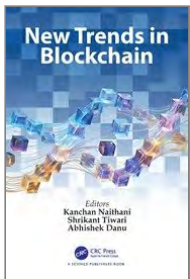
Series: CRC Press Reference Books in Computer Science

Bringing together a team of global contributors, this book examines the practicalities of AI implementation, addressing challenges and identifying strategies to facilitate smoother transitions to this transformative technology. It tackles critical issues such as governance, ethics, trust, and sustainability, which are essential to shaping the future of AI adoption. By offering insights into current practices and emerging trends, the book equips readers with the tools to navigate the complexities of AI and build resilient organizations in an era of constant change.

Chapman & Hall
January 2028 : 290pp
Pb: 978-1-041-12098-8 : **£51.99**
Hb: 978-1-041-12101-5 : **£120**

* For full contents and more information, visit: www.routledge.com/9781041120988

New Trends in Blockchain



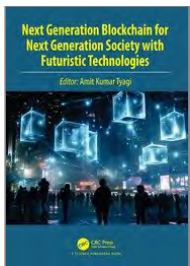
Edited by **Kanchan Naithani**, **Shrikant Tiwari**, **Abhishek Danu**

New Trends in Blockchain presents an inspiring exploration of how blockchain is rapidly reshaping the digital world. Beginning with core concepts, the book moves into the breakthrough innovations driving global adoption—scalable architectures, privacy-focused frameworks and advanced smart contract solutions. It showcases exciting real-world integrations where blockchain and AI work together to secure Healthcare IoT, enhance food supply chain safety and optimize solar microgrid energy systems. Practical applications such as blockchain-based land registries and secure e-degree vaults highlight its power to build trust and transparency.

CRC Press
June 2026 : 236pp
Hb: 978-1-032-86260-6 : **£130**
eBook: 978-1-003-54032-8

* For full contents and more information, visit: www.routledge.com/9781032862606

Next Generation Blockchain for Next Generation Society with Futuristic Technologies



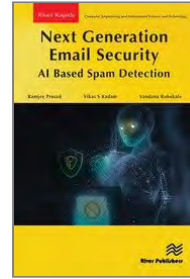
Edited by **Amit Kumar Tyagi** National Forensic Sciences Univ., India

Today blockchain has been used in many finance and non-finance applications (as the concept evolved with a use in the finance sector). In the future, next-generation blockchain will provide a future society which will be built with transparency, automation, and secure digital interaction. With integrating AI, quantum-resistant cryptography, edge computing, and IoT, etc., these advanced enhancements will provide trusted ecosystems where data moves safely across smart cities, autonomous systems, and global digital markets.

CRC Press
May 2026 : 420pp
Hb: 978-1-041-02607-5 : **£125**
eBook: 978-1-003-62082-2

* For full contents and more information, visit: www.routledge.com/9781041026075

Next Generation Email Security: AI Based Spam Detection



Edited by **Ramjee Prasad**, **Vikas S Kadam**, **Vandana Rohokale**

Series: River Publishers Rapids Series in Computer Engineering and Information Science and Technology

This book presents AI-driven approaches for combating spam, phishing, and malware in email systems. It reviews classical techniques, identifies their limitations, and introduces two novel frameworks—FLIDA and G-SFO with adaptive capsule networks. It also highlights the role of quantum machine learning in enabling scalable and resilient email security. This is a valuable resource for researchers, postgraduate students, and professionals in cybersecurity, AI, and data science, as well as industry practitioners and policymakers working on secure communication technologies.

River Publishers
June 2026 : 164pp
Pb: 978-8-743-81037-7 : **£70.99**

* For full contents and more information, visit: www.routledge.com/9788743810377

Online Trust and Safety

Tools to Combat Online Harms, Misinformation and Malicious Content



Edited by **Ian McLoughlin**, **Carol Soon**, **Roy Ka-Wei Lee**, **May Lwin**, **Razwana Begum**, **Zhu Feida**

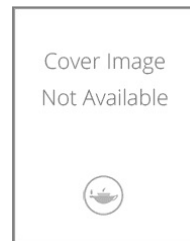
The promise of the internet was open knowledge and connection; the reality includes manipulation, abuse, and mistrust. This book confronts that gap with a practice-oriented guide to designing, analysing, and governing safer digital ecosystems. This resource offers researchers, policymakers, platform builders, educators, and civil society a clear map of today's landscape as well as a pragmatic agenda for what can and should come next: transparent provenance, robust measurement, and accountable interventions that earn user trust.

CRC Press
May 2026 : 308pp
Pb: 978-1-032-96194-1 : **£51.99**
Hb: 978-1-032-98677-7 : **£200**
eBook: 978-1-003-59991-3

* For full contents and more information, visit: www.routledge.com/9781032961941

Optimal Load Management in EV-penetrated Networks: A Metaheuristic Approach with FACTS and DG Support

Smart Solutions for EV-integrated Grids



Rupika Gandotra, **Kirti Pal**

Series: River Publishers Series in Transport Technology

This book offers a comprehensive techno-economic assessment and optimization framework for the challenges posed by the increasing adoption of electric vehicles by enhancing the performance of power system network through the integration of DG units and flexible AC transmission systems (FACTS) devices, particularly the unified power flow controller (UPFC). It explores various distributed sources available and FACTS controllers and how their integration effectively managed the growing demand due to electric vehicles.

River Publishers
July 2026 : 138pp
Pb: 978-8-743-81115-2 : **£86.99**

* For full contents and more information, visit: www.routledge.com/9788743811152

2ND EDITION

Pattern Language for Game Design



Christopher Barney

Christopher Barney's *Pattern Language for Game Design* builds on the revolutionary work of architect Christopher Alexander to show students, teachers, and game development professionals how to derive best practices in all aspects of game design. Using a series of practical exercises, designers can observe and analyze the failures and successes of the games they know and love to find the deep patterns that underlie good design. From an in-depth look at Alexander's work to a critique of pattern theory in various fields, to a new approach that challenges your knowledge and puts it to work, this book seeks to transform how we view building interactive experiences.

CRC Press

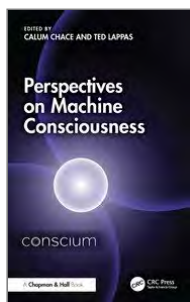
July 2026 : 478pp

Pb: 978-1-032-82471-0 : **£55.99**

Hb: 978-1-032-82535-9 : **£150**

* For full contents and more information, visit: www.routledge.com/9781032824710

Perspectives on Machine Consciousness



Edited by **Calum Chace, Ted Lappas**

Perspectives on Machine Consciousness asks whether any AIs are conscious today, whether any future ones could be conscious, how we could know, and what implications machine consciousness would have for us, and for them. This book is required reading for anybody developing advanced AI, working in AI safety, responsible for developing AI policies at organisational or national level, and indeed anybody concerned with the long-term future of humanity.

Chapman & Hall

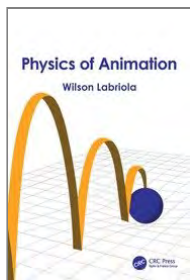
September 2026 : 352pp

Pb: 978-1-041-28234-1 : **£18.99**

Hb: 978-1-041-28235-8 : **£120**

* For full contents and more information, visit: www.routledge.com/9781041282341

Physics of Animation



Wilson Labriola

Are you an animator looking to bring your creations to life with a touch of realism? Or perhaps a game developer seeking to deepen your understanding of the forces that govern movement? In *Physics of Animation*, you'll find a comprehensive guide that bridges the gap between the art of animation and the science of physics. Whether you're a novice or a seasoned professional, you'll find valuable insights to enhance the realism and quality of your animations.

CRC Press

August 2026 : 134pp

Pb: 978-1-041-07914-9 : **£51.99**

Hb: 978-1-041-07915-6 : **£150**

* For full contents and more information, visit: www.routledge.com/9781041079149

Play, Life and Imagination

Essays on Gender, Sex, Games and Self



David Seelow

Play, Life & Imagination is a wide-ranging and deeply human exploration of play as one of the most powerful, misunderstood, and transformative forces in contemporary culture. David Seelow argues that play is not a distraction from serious thought but one of its most vital expressions. Intellectually rigorous yet warmly engaging, *Play, Life & Imagination* will appeal to scholars and students of cultural studies, gender studies, philosophy, media studies, and education, as well as to general readers curious about why play continues to matter so profoundly in a world that often forgets how, and why, to play at all.

CRC Press

August 2026 : 304pp

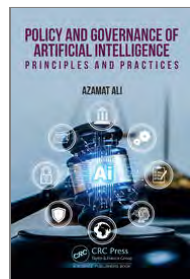
Pb: 978-0-367-56269-4 : **£51.99**

Hb: 978-0-367-62338-8 : **£150**

* For full contents and more information, visit: www.routledge.com/9780367562694

Policy and Governance of Artificial Intelligence

Principles and Practices



Azamat Ali

This book examines the governance and regulation of artificial intelligence through ethical, legal, and policy perspectives. It addresses key issues such as algorithmic bias, data privacy, transparency, and human rights. Using real world examples, it explores policy approaches across sectors and highlights the need for adaptive, inclusive frameworks to ensure responsible and accountable use of AI technologies.

CRC Press

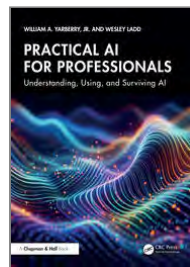
August 2026 : 274pp

Hb: 978-1-041-30896-6 : **£105**

* For full contents and more information, visit: www.routledge.com/9781041308966

Practical AI for Professionals

Understanding, Using, and Surviving AI



William A. Yarberry, Jr. ICCM Consulting, LLC, Kingwood, Texas, USA, **Wesley Ladd**

Practical AI for Professionals bridges the gap between high-level philosophy and technical implementation, delivering actionable AI knowledge for educated professionals without specialized training in computation, statistics, or modeling. It serves all professionals, particularly lawyers, physicians, financial analysts, engineers, managers, and other domain experts who need to understand AI deeply enough to deploy it effectively, assess vendor claims critically, and position themselves strategically in a transforming professional landscape. The book assumes no technical background but delivers substantive technical understanding through clear explanations and concrete examples.

Chapman & Hall

August 2026 : 400pp

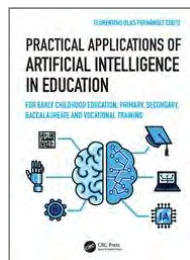
Pb: 978-1-041-07826-5 : **£51.99**

Hb: 978-1-041-07827-2 : **£120**

* For full contents and more information, visit: www.routledge.com/9781041078265

Practical Applications of Artificial Intelligence in Education

For Early Childhood Education, Primary, Secondary, Baccalaureate and Vocational Training



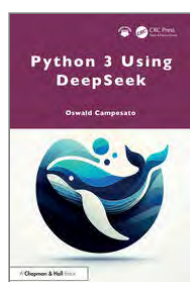
Florentino Blas Fernández Cueto

Discover how to use artificial intelligence (AI) in the classroom through practical applications.

CRC Press
October 2026 : 200pp
Pb: 978-1-041-27987-7 : **£68.99**
Hb: 978-1-041-33092-9 : **£150**

* For full contents and more information, visit: www.routledge.com/9781041279877

Python 3 Using DeepSeek



Oswald Campesato

This book is your definitive guide to mastering DeepSeek, a leading open-source Large Language Model (LLM), and leveraging its power through practical Python programming. It is structured to build your expertise from foundational Python data structures and object-oriented programming to advanced model deployment. Python 3 Using DeepSeek is essential reading for Python developers (intermediate to advanced), machine learning practitioners, and data scientists. It is your guide to integrating high-performing, open-source LLMs into your workflows, particularly for code generation, algorithmic reasoning, and highly efficient local model deployment.

Chapman & Hall
May 2026 : 272pp
Pb: 978-1-041-14951-4 : **£51.99**
Hb: 978-1-041-14952-1 : **£115**
eBook: 978-1-003-67698-0

* For full contents and more information, visit: www.routledge.com/9781041149514

Python Using GPT-5 and Gemini



Oswald Campesato

Python Using GPT-5 and Gemini provides a practical, up-to-date guide that combines solid Python programming skills with real-world integration of today's leading large language models. The book teaches essential Python techniques while showing readers exactly how to connect and use GPT-5, Google Gemini, Claude, Grok, Perplexity, and other major models in their daily work. This book is written for intermediate Python developers, data scientists, technical professionals, and anyone who wants to move beyond basic prompting and build production-ready applications that effectively combine Python with the latest generation of large language models.

Chapman & Hall
November 2026 : 368pp
Pb: 978-1-041-34754-5 : **£51.99**
Hb: 978-1-041-34756-9 : **£120**

* For full contents and more information, visit: www.routledge.com/9781041347545

Quantum Artificial Intelligence

Technologies, Algorithms and Programming



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

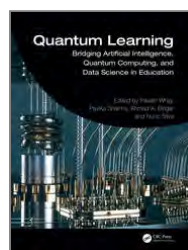
This book explores the transformative potential of Quantum computing in artificial intelligence and its impact on various fields. It delves into the foundational concepts, mathematical frameworks, and algorithmic paradigms, providing a roadmap for interdisciplinary research of Quantum computing in artificial 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
June 2026 : 160pp
Hb: 978-1-032-87075-5 : **£130**
eBook: 978-1-003-53080-0

* 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**

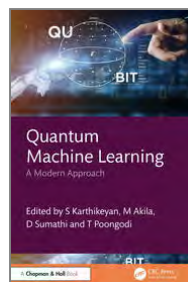
Quantum Learning: Bridging Artificial Intelligence, Quantum Computing, and Data Science in Education explores the transformative intersection of three of the most powerful technologies shaping the future of learning.

CRC Press
May 2026 : 200pp
Hb: 978-1-041-03779-8 : **£130**
eBook: 978-1-003-63740-0

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

Quantum Machine Learning

A Modern Approach



Edited by **S Karthikeyan** KPR Institute of Engineering and Technology, India, **M Akila** KPR Institute of Engineering and Technology, India, **D. Sumathi**, **T Poongodi**

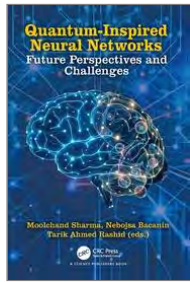
This text presents the research into and application of machine learning in quantum computation, known as quantum machine learning (QML). It presents a comparison of quantum machine learning, classical machine learning, and traditional programming, along with the usage of quantum computing, towards improving traditional machine learning algorithms through case-studies.

Chapman & Hall
June 2026 : 300pp
Pb: 978-1-032-55232-3 : **£51.99**
Hb: 978-1-032-54471-7 : **£94.99**
eBook: 978-1-003-42965-4

* For full contents and more information, visit: www.routledge.com/9781032552323

Quantum-Inspired Neural Networks

Future Perspectives and Challenges



Edited by **Moolchand Sharma** MAIT, India, **Nebojsa Bacanin**, **Tarik Ahmed Rashid**

The rapid advancement of artificial intelligence and quantum computing has led to the emergence of Quantum-Inspired Neural Networks (QINNs), which incorporate principles such as superposition, entanglement, and quantum probability to enhance classical neural networks. Despite the early stage of quantum hardware, QINNs offer improved learning efficiency, generalization, and problem-solving capabilities. This book explores their theoretical foundations, architectures, implementations, applications, limitations, and future potential across diverse domains.

CRC Press
July 2026 : 322pp
Hb: 978-1-041-10661-6 : £105

* For full contents and more information, visit: www.routledge.com/9781041106616

Quest Giving

A Pocket Guide For Motivating People To Do Arbitrary Things



Nathan Savant

Constructing a quest, whether it's for a video game, a fantasy novel, or an escape room, is a complex process that can be intimidating to approach and master. Whether this is your first time, or you're a seasoned professional, Quest Giving breaks down the process to its component pieces to rebuild your understanding of quest design from first principles. This book will give you the tools you need to understand who a quest was built for, what skills are required to complete that quest, and how best to reconstruct that amazing adventure you read or experienced during your childhood.

CRC Press
September 2026 : 112pp
Pb: 978-1-041-32839-1 : £51.99
Hb: 978-1-041-32840-7 : £150

* For full contents and more information, visit: www.routledge.com/9781041328391

Rage Against the Autonomous Machine

The Dialectics of Artificial Intelligence and How to Survive the AI Revolution



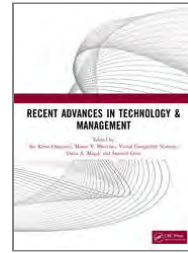
Thanos Panagopoulos

Rage Against the Autonomous Machine is not a warning about some distant future—it is a wake-up call for now. If AI is being "aligned," the real question is: aligned with whom? With humanity's deepest needs, or with the private interests of those who control the infrastructure? Whether you are an everyday AI user or a scholar with a sociological, political, or technical background—or feel fluent across all of them—this is the interdisciplinary book you have been waiting for. Deeply academic yet accessible, this book is both a warning and an invitation: a call for action, and a call for wonder.

CRC Press
September 2026 : 368pp
Pb: 978-1-041-21078-8 : £29.99
Hb: 978-1-041-21079-5 : £120

* For full contents and more information, visit: www.routledge.com/9781041210788

Recent Advances in Technology & Management



Edited by **Sai Kiran Oruganti**, **Manoj V. Bhalerao**, **Vishal Gangadhar Naranje**, **Dalia A. Magdi**, **Santosh Gore**

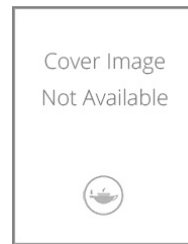
The conference aims to provide outstanding opportunities for both academic and industrial communities to address new trends, challenges, and emerging technologies relevant to today's fast-moving areas in the fields of Microelectronics, Automation, Quantum Computing, Next Generation Networks, Communications Systems, and Management. - Address practical challenges.

CRC Press
May 2026 : 336pp
Pb: 978-1-041-29215-9 : £55.99
Hb: 978-1-041-28809-1 : £130
eBook: 978-1-003-76863-0

* For full contents and more information, visit: www.routledge.com/9781041292159

Recursion

Mathematics and Python



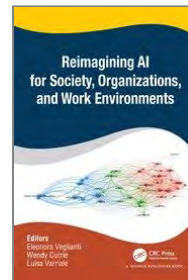
Yung-Hsiang Lu, **George K. Thiruvathukal** Loyola University Chicago, Chicago, Illinois

Designed to help readers develop a clear and systematic understanding of recursion as both a mathematical concept and a programming technique. Rather than presenting recursion as a collection of isolated examples, the book emphasizes recursive thinking: how complex problems can be expressed, analyzed, and solved by breaking them into simpler instances of similar structures. This book is intended for undergraduate students in computer science and computer engineering who already have basic Python programming experience and some prior exposure to recursion. It can also help instructors seek a resource that tightly integrates mathematical reasoning with executable code.

CRC Press
September 2026 : 192pp
Hb: 978-1-041-14953-8 : £91.99

* For full contents and more information, visit: www.routledge.com/9781041149538

Reimagining AI for Society, Organizations, and Work Environments



Edited by **Eleonora Veglianti**, **Wendy Currie**, **Luisa Varriale**

This volume offers a comprehensive examination of the growing phenomenon of Artificial Intelligence (AI). It contributes to the diverse ongoing debates and ideas on AI's multifaceted role in business and society. Here, readers will find scientific contributions that deepen our understanding of how AI is reshaping the organizational landscape across multiple levels of analysis. This book brings together interdisciplinary insights from the management disciplines in conjunction with contemporary research in information systems.

CRC Press
July 2026 : 270pp
Hb: 978-1-032-84746-7 : £130

* For full contents and more information, visit: www.routledge.com/9781032847467

Reinforcement Learning Explained

A Practical Problem-Solving Approach



Jonas Hellgren , Johannes Lindgren

Reinforcement Learning (RL) is a branch of Artificial Intelligence (AI) that teaches agents to learn optimal behavior through interaction, feedback, and long-term goals.

CRC Press

June 2026 : 298pp

Pb: 978-1-032-99665-3 : **£44.99**

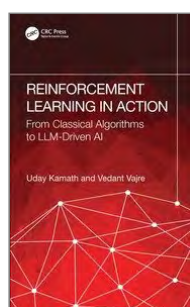
Hb: 978-1-041-06226-4 : **£130**

eBook: 978-1-003-63440-9

* For full contents and more information, visit: www.routledge.com/9781032996653

Reinforcement Learning in Action

From Foundations to Frontier AI



Uday Kamath , Vedant Vajre

Reinforcement Learning in Action: From Classical Algorithms to LLM-Driven AI is a comprehensive, hands-on guide that bridges theory and practice in Reinforcement Learning (RL), Deep RL, and Large Language Model (LLM) integration. It provides a structured path from fundamental RL concepts to cutting-edge LLM-enhanced AI, ensuring readers gain both a solid theoretical foundation and practical coding skills for real-world applications. This book is the first structured resource to systematically explore how LLMs enhance RL decision-making, reward design, and policy optimization for AI researchers, engineers, and students.

CRC Press

October 2026 : 352pp

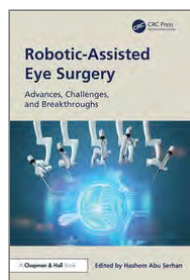
Pb: 978-1-041-13081-9 : **£49.99**

Hb: 978-1-041-13141-0 : **£120**

* For full contents and more information, visit: www.routledge.com/9781041130819

Robotic-Assisted Eye Surgery

Advances, Challenges, and Breakthroughs



Edited by Hashem Abu Serhan

This book explores the dynamic convergence of surgical robotics, artificial intelligence, and microsurgical precision in the context of ocular care. From vitreoretinal surgery to anterior segment procedures, from orbital robotics to AI-assisted platforms, this work provides an in-depth, forward-looking overview of the state of the art. The chapters reflect a multidisciplinary effort, bringing together surgeons, engineers, researchers, and policymakers. It is my hope that this book serves as both a scholarly reference and a practical guide for clinicians, innovators, and students invested in shaping the future of ophthalmic surgery.

CRC Press

June 2026 : 216pp

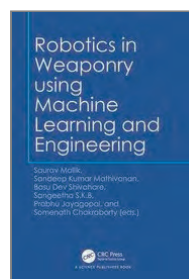
Pb: 978-1-041-23198-1 : **£56.99**

Hb: 978-1-041-23200-1 : **£140**

eBook: 978-1-003-73587-8

* For full contents and more information, visit: www.routledge.com/9781041231981

Robotics in Weaponry using Machine Learning and Engineering



Edited by Saurav Mallik University of Arizona, US,
Sandeep Kumar Mathivanan , Basu Dev Shivahare , Sangeetha S.K.B , Prabhu Jayagopal Vellore Institute Tech, India, **Somenath Chakraborty**

This book examines robotics in modern weaponry, surveying engineering design, ethical and legal considerations, and machine learning's role in perception, autonomy, and decision support. It emphasizes system safety, human machine interaction, verification and control, and policy frameworks guiding deployment. Case studies illustrate technical advances and societal risks, promoting responsible research and design that prioritize reliability, accountability, and harm minimization.

CRC Press

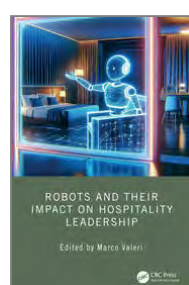
May 2026 : 490pp

Hb: 978-1-041-07444-1 : **£130**

eBook: 978-1-003-66346-1

* For full contents and more information, visit: www.routledge.com/9781041074441

Robots and their Impact on Hospitality Leadership



Edited by Marco Valeri

This book analyzes how human resource experts perceive that robots and evolving technologies will impact leadership behaviors and human resource management in the hospitality industry. Chapters in this collection explore: service robots, automation, the Green Collar Revolution, social media, and more in multiple hospitality contexts, including all-inclusive resorts and the industry in Türkiye. Robots and their Impact on Hospitality Leadership is ideal for professionals and leaders in the hospitality industry, as well as students within tourism and hospitality courses.

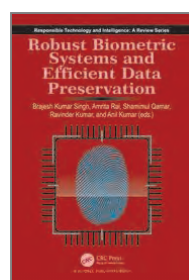
CRC Press

June 2026 : 182pp

Hb: 978-1-041-24624-4 : **£86.99**

* For full contents and more information, visit: www.routledge.com/9781041246244

Robust Biometric Systems and Efficient Data Preservation



Edited by Brajesh Kumar Singh Galgotia college of Engineering and Technology, **Amrita Rai** UPTU, India, **Shamimul Qamar** King Khalid University, Abha, Saudi Arabia, **Ravinder Kumar** SHRI VISHWAKARMA SKILL UNIVERSITY, **Anil Kumar** GL BAJAJ INSTT. OF TECHNOLOGY AND MANAGEMENT

Series: Responsible Technology and Intelligence

The book explores the intricate nexus between biometric systems and the need for preserving data integrity as well as security needed during the data communication. It offers a systematic and insightful journey through the multifaceted landscape of biometrics, emphasizing the development of resilient systems and the judicious preservation of critical data.

CRC Press

June 2026 : 260pp

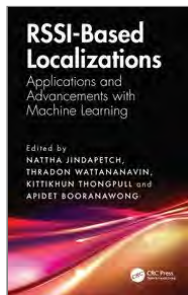
Hb: 978-1-032-87452-4 : **£120**

eBook: 978-1-003-56001-2

* For full contents and more information, visit: www.routledge.com/9781032874524

RSSI-Based Localizations

Applications and Advancements with Machine Learning



Edited by **Nattha Jindapetch, Thradon Wattananavin, Kittikhun Thongpull, Apidet Booranawong**

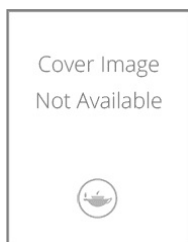
This book explores RSSI-based localization, device-free detection, and machine learning integration, providing practical insights into wireless sensing applications for navigation, security, healthcare, and intelligent IoT systems. The readership for this book is graduate students in wireless sensor network and IoT courses, professionals such as developers and researchers developing smart communications in factories, hospitals, buildings.

CRC Press
May 2026 : 220pp
Pb: 978-1-041-12421-4 : **£51.99**
Hb: 978-1-041-12423-8 : **£200**
eBook: 978-1-003-66465-9

* For full contents and more information, visit: www.routledge.com/9781041124214

Safe or Secure?

Decoding Age Verification in the Digital Era



Azfar Adib

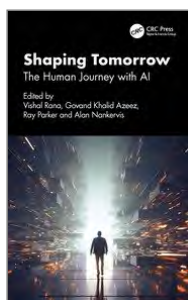
Safe or Secure? examines the evolution and deployment of age verification systems, situating them within broader technological, regulatory, and societal frameworks. It analyses this trend as part of the international response to the rapid expansion of the internet and subsequent exposure of minors to online contents that were not originally designed with age-based boundaries. The book is written to remain accessible to readers across disciplines, including policymakers, engineers, researchers, practitioners, as well as broader stakeholders such as activists, educators, parents, and general users engaged in the ongoing discourse on online safety and digital governance.

CRC Press
October 2026 : 192pp
Hb: 978-1-041-08118-0 : **£86.99**

* For full contents and more information, visit: www.routledge.com/9781041081180

Shaping Tomorrow

The Human Journey with AI



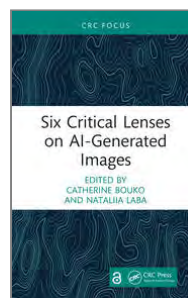
Edited by **Vishal Rana, Govand Khalid Azeez, Ray Parker, Alan Nankervis** Curtin University, Perth, Australia

Every major technological regime in human history has reorganised not only how societies produce but how they think, govern, and define what it means to be human. Artificial intelligence is no exception. What sets it apart is the speed, scale, and intimacy with which it is penetrating the epistemic and institutional fabric of contemporary life. For scholars, postgraduate students, and professionals confronting a world increasingly governed by algorithmic mediation, this book does not merely describe the landscape. It sharpens the capacity to act within it.

CRC Press
October 2026 : 346pp
Hb: 978-1-041-04033-0 : **£86.99**

* For full contents and more information, visit: www.routledge.com/9781041040330

Six Critical Lenses on AI-Generated Images



Edited by **Catherine Bouko, Nataliia Laba**

This book offers six critical, interdisciplinary approaches to AI-generated images. It invites the reader to (re-)imagine relationships between artefacts and media, authorship and agency, creativity and commodification, representation and visual style.

CRC Press
May 2026 : 194pp
Hb: 978-1-041-23269-8 : **£54.99**
eBook: 978-1-003-74026-1

* For full contents and more information, visit: www.routledge.com/9781041232698

Skin Cancer Detection Using Artificial Intelligence Techniques



Parikshit N. Mahalle, Nuzhat Faiz Shaikh, Pritibala S. Ingle, Yashwant S. Ingle Modern Education Society's College of Engineering, Pune, India,

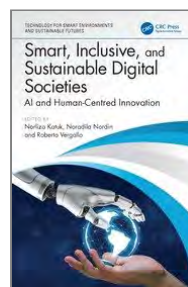
This book explores the application of Artificial Intelligence (AI) in diagnosing skin cancer, emphasising the importance of early detection to improve treatment outcomes. It reviews various machine learning algorithms, with a focus on support vector machines, to classify skin cancer with higher accuracy than traditional methods. Designed for beginners and experts alike, the book provides a comprehensive understanding of AI techniques and their implementation in healthcare. The findings of this study will aid doctors in treating disease at its onset, preventing future deterioration. This book can be referred to by professionals and researchers.

Chapman & Hall
May 2026 : 138pp
Hb: 978-1-032-89310-5 : **£96.99**
eBook: 978-1-003-54215-5

* For full contents and more information, visit: www.routledge.com/9781032893105

Smart, Inclusive, and Sustainable Digital Societies

AI and Human-Centred Innovation



Edited by **Norliza Katuk** School of Computing Universiti Utara, Malaysia, **Noradila Nordin, Roberto Vergallo** University of Salento, Italy

Series: Technology for Smart Environments and Sustainable Futures

This book serves as a comprehensive, interdisciplinary exploration of how emerging technologies intersect with human-centric design. The primary audience consists of researchers and academics in fields such as Human-Computer Interaction (HCI), Artificial Intelligence, and the social sciences who require rigorous frameworks for their work. The secondary audience includes policymakers and practitioners who are tasked with the governance and implementation of digital initiatives.

CRC Press
November 2026 : 338pp
Hb: 978-1-041-38367-3 : **£86.99**

* For full contents and more information, visit: www.routledge.com/9781041383673

Smart, Secure, and Sustainable Digital Futures

AI, Cybersecurity, and Governance in Emerging Digital Systems



Edited by **Norliza Katuk** School of Computing Universiti Utara, Malaysia, **Roberto Vergallo** University of Salento, Italy, **Noradila Nordin**

Series: *Technology for Smart Environments and Sustainable Futures*

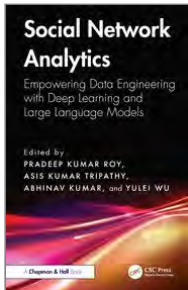
This comprehensive volume provides a multidisciplinary exploration of the design, governance, and sustainability of emerging digital systems by integrating theoretical foundations with empirical studies. The book targets industry practitioners, SME leaders, and sustainability officers who require practical, data-driven frameworks for building resilience. The other readership group includes researchers, postgraduate students, and policymakers seeking an authoritative reference on the design and governance of trustworthy digital systems.

CRC Press
October 2026 : 352pp
Hb: 978-1-041-38436-6 : **£86.99**

* For full contents and more information, visit: www.routledge.com/9781041384366

Social Network Analytics

Empowering Data Engineering with Deep Learning and Large Language Models



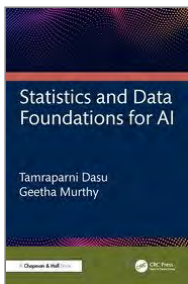
Edited by **Pradeep Kumar Roy**, **Asis Kumar Tripathy**, **Abhinav Kumar**, **Yulei Wu**

This book presents the cutting-edge techniques of social network analytics, focusing on both the positive and negative aspects of social media. While platforms like X, Facebook, and LinkedIn serve as powerful tools for product promotion and crisis management, they also present challenges such as the spread of misinformation, cyberbullying, and hateful content. The book explores these dimensions while highlighting the advancements in social media analytics, specifically through the lens of emerging technologies like AI, machine learning, and deep learning.

Chapman & Hall
September 2026 : 272pp
Hb: 978-1-041-00690-9 : **£86.99**

* For full contents and more information, visit: www.routledge.com/9781041006909

Statistics and Data Foundations for AI



Tamraparni Dasu, **Geetha Murthy**

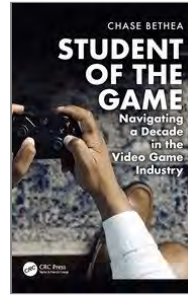
Statistics and Data Foundations for AI is an interdisciplinary approach to statistical concepts and data foundations of AI with real-world illustrative examples from authoritative sources such as NASA, NOAA and the US Census Bureau. Co-authored by a data science research expert and an experienced educator, the book serves as a prequel to an AI and machine learning course. It is intended for undergraduate and graduate students, and practitioners interested in learning statistical foundations in relation to data and AI with real-world applications. The content is accessible for a wide variety of backgrounds (STEM and non-STEM) without sacrificing rigor.

Chapman & Hall
July 2026 : 272pp
Pb: 978-1-041-00641-1 : **£51.99**
Hb: 978-1-041-00642-8 : **£120**

* For full contents and more information, visit: www.routledge.com/9781041006411

Student of the Game

Navigating a Decade in the Video Game Industry



Chase Bethea

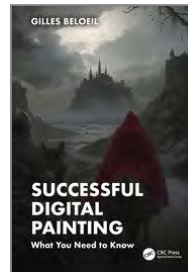
Navigating the video game industry is like playing on expert mode—without a strategy guide. In this rapidly evolving, hit-driven industry, technology advances at breakneck speed while personalities and business dynamics shift constantly. Many aspiring professionals ask how to break into game audio, but fewer discuss what happens after you're in—or how to avoid getting lost along the way. This isn't just another "how to break in" guide. It's a survival manual for anyone serious about building a lasting career in game audio, complete with the aches, breaks, and breakthroughs that define professional growth in this challenging but rewarding field.

CRC Press
July 2026 : 232pp
Pb: 978-1-032-68539-7 : **£51.99**
Hb: 978-1-032-72832-2 : **£150**

* For full contents and more information, visit: www.routledge.com/9781032685397

Successful Digital Painting

What You Need to Know



Gilles Beloeil

Unlock the secrets of digital painting with this comprehensive guide designed for artists at every level. Whether you're a beginner struggling to bring your visions to life or an experienced artist looking to refine your skills, this book offers invaluable insights and practical advice. Whether you're working on character design, environment art, or any other digital painting project, this book is your trusted companion. With its practical guidance and motivational insights, *Successful Digital Painting* will help you transform your artistic dreams into reality.

CRC Press
June 2026 : 206pp
Pb: 978-1-032-88218-5 : **£49.99**
Hb: 978-1-032-88219-2 : **£140**

* For full contents and more information, visit: www.routledge.com/9781032882185

Superhuman

Beyond the Limits of Our Intelligence



Nello Cristianini

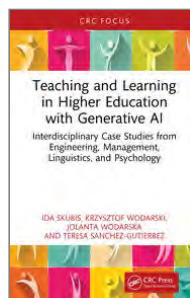
In this new, visionary book, we will see artificial intelligence successfully pass extremely difficult tests, right up to the final test, in which they will tackle areas that are impenetrable even for our best experts. Will we be able to understand what lies beyond the limits of our intelligence?

CRC Press
November 2026 : 112pp
Pb: 978-1-041-23266-7 : **£22.99**
Hb: 978-1-041-23479-1 : **£120**

* For full contents and more information, visit: www.routledge.com/9781041232667

Teaching and Learning in Higher Education with Generative AI

Interdisciplinary Case Studies from Engineering, Management, Linguistics, and Psychology



Ida Skubis , Krzysztof Wodarski , Jolanta Wodarska , Teresa Sanchez-Gutierrez

This interdisciplinary book demonstrates how Generative Artificial Intelligence (GenAI) changes higher education across diverse academic fields, including philology, management, engineering, and psychology. Drawing on empirical case studies, surveys, and experiments, the book combines theoretical and practical perspectives to explore AI's impact on learning, and cognitive development. Each chapter offers discipline-specific analysis of how GenAI reshapes pedagogy – supporting multilingual education, enhancing reflective thinking, fostering self-regulated learning, and encouraging ethical awareness.

CRC Press

June 2026 : 280pp

Hb: 978-1-041-35091-0 : **£54.99**

* For full contents and more information, visit: www.routledge.com/9781041350910

2ND EDITION

Technical Animation in Video Games



Matthew Lake

This book provides a comprehensive overview of video game technical animation, covering the next generation pipelines that industry developers utilise to create their games. It covers the technical animation workflow from start to finish, looking at both software and hardware, as well as the industry standard processes that all technical animators need to know. This book is essential reading for early-career game technical animators as well as those studying game animation courses. It will also appeal to technical animators working in the film industry.

CRC Press

October 2026 : 336pp

Pb: 978-1-041-11657-8 : **£51.99**

Hb: 978-1-041-11661-5 : **£130**

* For full contents and more information, visit: www.routledge.com/9781041116578

Technology Management, Artificial Intelligence, and Machine Learning Strategies to Improve Technology Integration and Usage in the Workplace

Strategies to Increase Leverage Over Competitors and Control Internal and External Risk Factors



Bradley Fowler , Bruce G. Chaundy

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

Technology Management: AI and Machine Learning Strategies for the Workplace delivers a globally compliant framework that integrates incident response planning, disaster recovery, industrial-organizational psychology, information security policy templates, auditing framework, and innovative managerial methods to mitigate risk and ensure a seamless adoption and advancement of technology tools and applications across diverse workplace environments. Enveloped are current trends of cybersecurity. Trusted paths to mitigate personnel noncompliance. This is best suited for all levels of technology personnel, i.e., entry level to C-suite executive leaders.

River Publishers

July 2026 : 264pp

Hb: 978-8-743-80970-8 : **£110**

* For full contents and more information, visit: www.routledge.com/9788743809708

2ND EDITION

The Advanced Game Narrative Toolbox



Edited by **Tobias Heussner** Principle Translations and Interpreting, LLC

The Advanced Game Narrative Toolbox 2nd Edition is an updated version of The Advanced Game Narrative Toolbox, continuing where The Game Narrative Toolbox left off. While the Game Narrative Toolbox covered the basics of writing and narrative design for games, The Advanced Game Narrative Toolbox will cover techniques and approaches for the intermediate and professional writer. Each chapter is written by a professional with exceptional experience in the field of the chapter and ends with an exercise encouraging you to try out what you learned.

CRC Press

August 2026 : 224pp

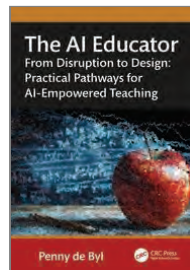
Pb: 978-1-041-09048-9 : **£52.99**

Hb: 978-1-041-09051-9 : **£150**

* For full contents and more information, visit: www.routledge.com/9781041090489

The AI Educator

From Disruption to Design: Practical Pathways for AI-Empowered Teaching



Penny de Byl Associate Professor, Bond University; Winner of the 2011 Unity Technologies Unity Mobile Generation Great Education Giveaway

The AI Educator traces how artificial intelligence is reshaping the purpose, practice, and ethics of education. Rather than treating AI as a threat or cure-all, the book situates it within a long history of technological disruption, from the printing press to the internet, revealing the recurring patterns of fear, adaptation, and renewal that accompany each wave of innovation. Ultimately, AI in Education calls for a human-centred pedagogy grounded in empathy, integrity, and purposeful innovation. It invites educators to reclaim agency in the design of AI-enhanced classrooms and to reaffirm what remains irreplaceably human in teaching and learning.

CRC Press

July 2026 : 272pp

Pb: 978-1-041-03707-1 : **£51.99**

Hb: 978-1-041-03709-5 : **£170**

* For full contents and more information, visit: www.routledge.com/9781041037071

The Animator's Blueprint

The Beginner's Guide to Mastering Moho



Chris Georgenes , McCoy Buck

If you've always wanted to animate your own characters, this is where you start. The Animator's Blueprint: The Beginner's Guide to Mastering Moho walks you step by step through how to design, rig, and animate using Moho's professional tools and workflows. Whether you're brand new to animation or a seasoned animator exploring Moho for the first time, you'll gain real confidence as you master Moho's core tools to create your own characters and bring them to life on screen. By the end, you won't just understand Moho; you'll have the foundation and essentials to bring your stories to life through animation.

CRC Press

July 2026 : 256pp

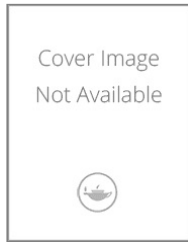
Pb: 978-1-032-97237-4 : **£49.99**

Hb: 978-1-032-97241-1 : **£140**

* For full contents and more information, visit: www.routledge.com/9781032972374

The Conscious Code

From Artificial Intelligence to Artificial Consciousness



Rocky Scopelliti

This book explores the evolution of Artificial Intelligence beyond mere logic to encompass perception, emotion, and ethical awareness. Integrating neuroscience, AI engineering, and moral philosophy, the book provides a unified framework for understanding and shaping synthetic consciousness. The primary target includes professionals and policymakers grappling with the societal implications of AI, alongside graduate students, scientists, technologists, and educators seeking to understand and shape the future of conscious technology.

CRC Press

September 2026 : 406pp

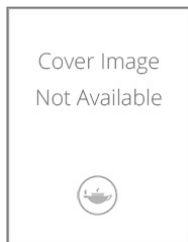
Pb: 978-1-041-32369-3 : **£51.99**

Hb: 978-1-041-32370-9 : **£150**

* For full contents and more information, visit: www.routledge.com/9781041323693

The Fintech Matrix

Connecting Innovation, Regulation, And Technology



Neha Garg , Anoop Pandey , Nupur Tyagi

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

The FinTech Matrix offers a comprehensive exploration of this shift, providing readers with an in-depth understanding of the powerful convergence of finance and technology. This book examines the forces driving innovation in financial systems and services, from digital payments and blockchain to artificial intelligence and regulatory technologies, revealing how these developments are reshaping the global economy. Structured in seven detailed parts, the book serves as both an essential academic resource and a practical guide for professionals seeking to navigate the complex and dynamic world of FinTech.

River Publishers

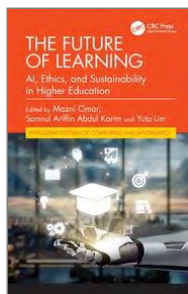
July 2026 : 624pp

Hb: 978-8-743-81122-0 : **£120**

* For full contents and more information, visit: www.routledge.com/9788743811220

The Future of Learning

AI, Ethics, and Sustainability in Higher Education



Edited by Mazni Omar , Samsul Ariffin Abdul Karim FASD, Universiti Teknologi Petronas, Malaysia, Yuto Lim

Series: Intelligent Systems of Computing and Informatics

This book examines AI's transformative impact on higher education, from enhancing teaching and learning to raising ethical challenges like academic integrity and bias. The book's research-based insights and practical focus make it an essential guide for managing AI in a rapidly evolving academic landscape. This book is for researchers, and practitioners, including educators and policymakers, seeking a comprehensive and practical guide to understanding and responsibly implementing AI in higher education.

CRC Press

November 2026 : 408pp

Hb: 978-1-041-24025-9 : **£120**

* For full contents and more information, visit: www.routledge.com/9781041240259

The Game Designer's Guide to Creating Licensed Tabletop Games



James Sheahan

Converting an existing property such as a videogame or film into a tabletop game provides all the challenges of tabletop design whilst adding many more challenges, restrictions, limitations and pressures. This book explains the steps in creating a licensed tabletop game and the factors which influence its design using examples, including the designer's first-hand experience of converting the Fallout videogames into Fallout: Wasteland Warfare. This book will be ideal reading for games professionals looking to learn best practice for designing games based on existing properties.

CRC Press

May 2026 : 200pp

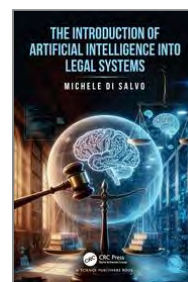
Pb: 978-1-032-94977-2 : **£51.99**

Hb: 978-1-032-94755-6 : **£140**

eBook: 978-1-003-58161-1

* For full contents and more information, visit: www.routledge.com/9781032949772

The Introduction of Artificial Intelligence into Legal Systems



Michele Di Salvo

This book offers a critical guide to the profound impact of Artificial Intelligence on legal systems. It begins by deconstructing the promise of algorithmic justice and advocating for the protection of fundamental 'neural rights'. The analysis then moves from theory to practice, examining concrete applications and landmark cases within courtrooms and administrations. From chatbots to criminal sentencing, this volume provides an essential framework to understand and navigate the complex ethical, regulatory, and human rights challenges of integrating AI into the very fabric of law and justice.

CRC Press

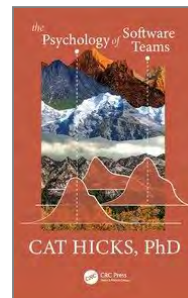
May 2026 : 264pp

Hb: 978-1-041-21846-3 : **£105**

eBook: 978-1-003-73129-0

* For full contents and more information, visit: www.routledge.com/9781041218463

The Psychology of Software Teams



Cat Hicks

This book explains the psychology that creates resilience for developers, sustainable practices for software teams, and innovation for organizations. You'll learn from rigorous empirical evidence gathered from top engineering organizations and thousands of developers around the world, revealing powerful principles to guard against failure and drive cultures of collaboration and problem-solving. This book is for the developers and builders of the future. It will teach you how to untangle your thinking from pervasive myths about software work and harness the superpowers of psychology to create more joyful, innovative, and thriving environments for software.

CRC Press

July 2026 : 210pp

Pb: 978-1-032-96338-9 : **£18.99**

Hb: 978-1-032-96339-6 : **£68.99**

* For full contents and more information, visit: www.routledge.com/9781032963389

The Z Garbage Collector

In JDK 25



Erik Österlund

This book explains how the Z Garbage Collector was designed, why it was designed this way, the common pitfalls to avoid when using ZGC in JDK 25 and how to get useful information from the garbage collector. The book goes into detail and covers core algorithm concepts of ZGC, as well as showing how all of this works. It explains how the JVM evolved certain features to be able to accommodate ZGC, and covers the importance of each of the various GC heuristics and how they function. With a unique angle right between academia and industry, this book is useful for computer science students and Java developers alike.

Chapman & Hall
May 2026 : 370pp
Pb: 978-1-032-97692-1 : **£51.99**
Hb: 978-1-032-97772-0 : **£150**
eBook: 978-1-003-59536-6

* For full contents and more information, visit: www.routledge.com/9781032976921

Theory of Computation for Software Developers



Maxim Mozgovoy The University of Aizu

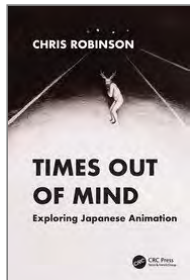
The theory of computation is often viewed as one of the most abstract areas of computer science, mostly reserved for university courses. This book aims to bridge the gap between the formal world of the theory of computation and the realities of everyday programming practice. Covering material aligned with the ACM/IEEE Computer Science Curricula, this book can serve both as a gentle textbook and a self-contained crash course for curious professionals.

Chapman & Hall
July 2026 : 244pp
Pb: 978-1-032-61480-9 : **£96**
Hb: 978-1-032-61479-3 : **£96**
eBook: 978-1-032-61499-1

* For full contents and more information, visit: www.routledge.com/9781032614809

Times Out of Mind

Exploring Japanese Animation



Chris Robinson

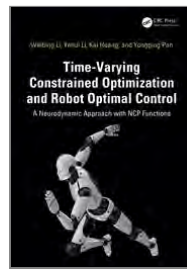
While visiting Japan, animation writer Chris Robinson gets lost. Drifting through Tokyo, Hiroshima, and Kyoto, he stumbles into a string of encounters—with mysterious figures like Bob Dylan, Haruki Murakami, sumo wrestlers, and Big Bird, and, by good luck, with Japanese animators both living and dead. Times Out of Mind reprints that original book in full, then adds a new section written fifteen years later. Robinson returns to Japan to reopen the same uncanny thread—new conversations, new detours—while figures from the first journey reappear. The result is part travelogue, part memoir, part fiction, and part off-the-map animation history.

CRC Press
September 2026 : 224pp
Pb: 978-1-041-27748-4 : **£51.99**
Hb: 978-1-041-27750-7 : **£150**

* For full contents and more information, visit: www.routledge.com/9781041277484

Time-Varying Constrained Optimization and Robot Optimal Control

A Neurodynamic Approach with NCP Functions



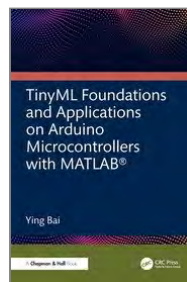
Weibing Li, Yehui Li, Kai Huang, Yongping Pan

Focusing on error-dynamics-based neurodynamic networks (EDNNs) for optimal control of real-world robots, this book interrogates the application of neurodynamic methods to time-varying constrained optimization (TVCO) problems. The book offers practical guidance for researchers and engineers while providing accessible insights for non-specialists, such as librarians and booksellers, on the value of EDNNs in advancing robotic control practices.

CRC Press
August 2026 : 232pp
Pb: 978-1-041-23549-1 : **£68.99**

* For full contents and more information, visit: www.routledge.com/9781041235491

TinyML Foundations and Applications on Arduino Microcontrollers with MATLAB



Ying Bai Johnson C. Smith University, Charlotte, North Carolina, USA

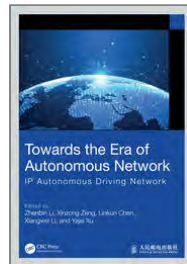
This book focuses on the emerging technology of AI branch, embedded artificial intelligence, or TinyML, with wide real applications and implementations, and on using TinyML to build AI embedded applications with MATLAB and deploy them in Arduino Microcontrollers. MATLAB is a great language for complicated calculations and computations, and can handle very complicated calculations. Therefore, using MATLAB to build AI and TinyML projects provides an excellent way in building AI and TinyML related applications.

Chapman & Hall
September 2026 : 300pp
Pb: 978-1-041-32945-9 : **£59.99**
Hb: 978-1-041-32946-6 : **£120**

* For full contents and more information, visit: www.routledge.com/9781041329459

Towards the Era of Autonomous Network

IP Autonomous Driving Network



Edited by Zhenbin Li, Xinzong Zeng, Linkun Chen, Xiangwei Li, Yajie Xu

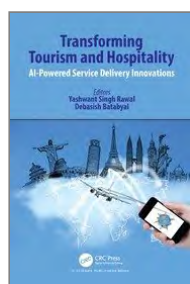
This book examines IP autonomous driving network (ADN) technology and solutions, offering insights into the challenges that IP transport networks face and their technological evolution. The book is intended for IP transport network O&M professionals, IP network product designers and developers, as well as students and researchers interested in IP network technology and data communications.

CRC Press
June 2026 : 300pp
Hb: 978-1-041-22982-7 : **£68.99**
eBook: 978-1-003-73488-8

* For full contents and more information, visit: www.routledge.com/9781041229827

Transforming Tourism and Hospitality

AI-Powered Service Delivery Innovations



Edited by **Yashwant Singh Rawal** Parul University, India,
Debasish Batabyal Amity University, Kolkata, India

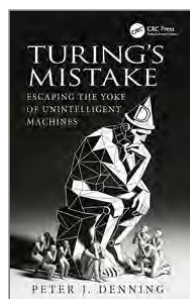
Transforming Tourism and Hospitality: AI-Powered Service Delivery Innovations explores the profound impact of Artificial Intelligence, IoT, and emerging technologies on the tourism and hospitality industry. This edited volume presents scholarly insights and real-world case studies on AI-driven customer service, sustainable operations, smart maintenance, fraud detection, dynamic pricing, and enhanced guest security. With robust empirical validation and practical examples, the book offers a valuable resource for academics, professionals, and policymakers seeking to understand and implement AI innovations in service delivery across the sector.

CRC Press
June 2026 : 240pp
Hb: 978-1-032-86651-2 : £125

* For full contents and more information, visit: www.routledge.com/9781032866512

Turing's Mistake

Escaping the Yoke of Unintelligent Machines



Peter J. Denning George Mason University

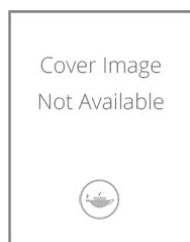
For the first time in the history of humanity, we do not really have a good grip on what the role of humans is on the planet. This predicament can be traced to widespread acceptance of two assumptions proposed by Alan Turing in 1950 when he asked, "Can computers think?"; that intelligence is disembodied and its presence can be determined by the Turing test. This book argues that AI has ignored a gaping hole: the issue of tacit knowledge, which is essential for human intelligence and can never be known by machines. We can escape this yoke by renouncing the idea that we are a form of machine and celebrating the powers of care, understanding, and respect, that no machine can have.

Chapman & Hall
July 2026 : 146pp
Pb: 978-1-041-34077-5 : £19.99
Hb: 978-1-041-34078-2 : £120

* For full contents and more information, visit: www.routledge.com/9781041340775

Understanding the Ethics of Generative AI

A Developer's Guide



Loveleen Gaur

The book discusses the ethical complexities that software developers face as they build AI systems capable of autonomous creation. It explores the ethical decisions developers must make when building generative AI systems, from mitigating bias in training data to protecting user privacy and navigating regulatory compliance. Through real-world case studies and actionable frameworks, it equips technical professionals with both the understanding and tools to build AI systems that are fair, transparent, and worthy of public trust.

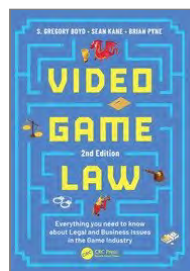
Chapman & Hall
September 2026 : 200pp
Hb: 978-1-041-15318-4 : £86.99

* For full contents and more information, visit: www.routledge.com/9781041153184

2ND EDITION

Video Game Law

Everything you need to know about Legal and Business Issues in the Game Industry



S. Gregory Boyd, Brian Pyne, Sean F. Kane

Video Game Law is aimed at game developers and industry professionals who want to better understand the industry or are in need of expert legal guidance. Not every video game company has the financial resources to retain in-house counsel—which Video Game Law seeks to address by discussing many of the common pitfalls, legal questions, and scenarios facing the industry. S. Gregory Boyd, Brian Pyne, and Sean F. Kane, the most prominent, sought after, and respected video game attorneys in the country, break down the laws and legal concepts that every game developer and industry professional needs to know in order to better protect their game and grow their company.

A K Peters/CRC Press
September 2026 : 352pp
Hb: 978-1-032-91119-9 : £68.99

* For full contents and more information, visit: www.routledge.com/9781032911199

Virtual Reality Experience Design Handbook

Heuristics, Patterns, and Practices for Immersive Applications



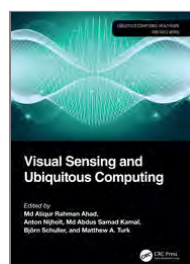
Rocío Cifuentes-Albeza, Iñigo Cuiñas, Itziar Goicoechea, Dorota Kamińska, Francisco-Julián Martínez-Cano, Rui Raposo, Mário Vairinhos, Grzegorz Zwoliński

This book is an essential guide for anyone creating VR content that is not only engaging but also inclusive. It offers clear, hands-on support for designing meaningful interactions in virtual spaces. Readers will learn how to translate familiar 2D patterns into spatial experiences, integrate accessibility, and use elements such as spatial audio, lighting, and animation to guide attention effectively. As the VR market continues to grow, this handbook equips professionals with the skills and confidence to build high-quality immersive experiences - whether refining existing products or creating entirely new ones.

CRC Press
September 2026 : 342pp
Hb: 978-1-041-33374-6 : £170

* For full contents and more information, visit: www.routledge.com/9781041333746

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 : 184pp
Hb: 978-1-032-76650-8 : £150
eBook: 978-1-003-48580-3

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

Visualizing Biological Data with ggplot2



William G. Vilchez

Series: Chapman & Hall/CRC Computational Biology Series

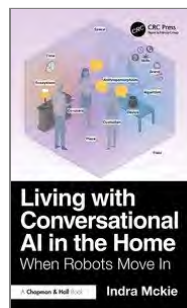
We are currently living in an era where technology is constantly advancing, which leads to the generation of large volumes and types of data. Therefore, the ability to transform complex data into clear and attractive visualizations has become essential. This book encourages readers to explore the power of visualization in biology, combining science and art to communicate findings clearly.

Chapman & Hall
August 2026 : 400pp
Pb: 978-1-032-89443-0 : **£51.99**
Hb: 978-1-032-87658-0 : **£130.99**

* For full contents and more information, visit: www.routledge.com/9781032894430

When Robots Move In

Living with Conversational AI in the Home



Indra Mckie

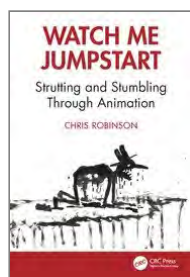
The book introduces innovative frameworks like the Effort Triad, the Embodied Interaction Heuristic, and brand anthropomorphism to analyze how people engage with stationary voice assistants. It also presents practical concepts such as custodianship roles, spatial resistance tactics, and compassionate automation, offering tools to navigate shared spaces with AI. By connecting these findings to the next generation of domestic technology - mobile humanoid robots - it provides a forward-looking perspective on the future of AI in the home.

Chapman & Hall
September 2026 : 240pp
Hb: 978-1-041-15705-2 : **£120**

* For full contents and more information, visit: www.routledge.com/9781041157052

Watch Me Jumpstart

Strutting and Stumbling Through Animation



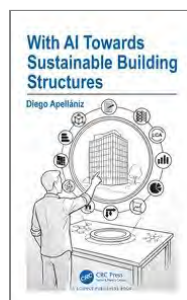
Chris Robinson

Watch Me Jumpstart is a love letter and a jab to the ribs—part memoir, part field guide—from the Artistic Director who spent three decades peering behind the curtain of the Ottawa International Animation Festival. Chris Robinson has watched the medium mutate from spliced film cans and ¾-inch tapes to links and torrents of digital files; from a handful of global showcases to a crowded calendar of festivals; from outsider, DIY voices to an industry that can smooth every rough edge—and sometimes sand away the soul. It's a backstage pass to the decisions, arguments, and small miracles that turn thousands of submissions into a festival.

CRC Press
July 2026 : 160pp
Pb: 978-1-041-05966-0 : **£49.99**
Hb: 978-1-041-05968-4 : **£140**

* For full contents and more information, visit: www.routledge.com/9781041059660

With AI Towards Sustainable Building Structures



Diego Apellániz

"With AI Towards Sustainable Building Structures" is an insightful exploration of how state of the art AI techniques can be integrated into the building industry to support a more sustainable future. The book avoids bold predictions and focuses on helping readers form their own judgments through clear explanations of AI fundamentals and an overview of industry workflows and environmental impacts. It also draws on personal experience and includes interviews with leading experts in AI and the building sector.

CRC Press
June 2026 : 146pp
Hb: 978-1-032-82064-4 : **£130**
eBook: 978-1-003-50632-4

* For full contents and more information, visit: www.routledge.com/9781032820644

What Games Mean

Understanding Games as Art



Brandon L. Sichling

What Games Mean: Understanding Games as Art relates games to established artforms through painting movements, auteur theory, music albums, and documentary. Each chapter discusses the history of the art movement in question and then reads games through those lenses. By defamiliarizing games by thinking about them with atypical genre and form, What Games Mean helps create a common language between tabletop and video games and other kinds of art. This book is about offering strategies for game makers to think about their own work and process. Professionals and students can look at games from different perspectives and gain new approaches to how they work.

CRC Press
October 2026 : 192pp
Pb: 978-1-041-27739-2 : **£51.99**
Hb: 978-1-041-27740-8 : **£150**

* For full contents and more information, visit: www.routledge.com/9781041277392

Hybrid Materials and Advanced Manufacturing

Modern Techniques and Applications, Volume II



Edited by **Rajesh Kumar Verma** Harcourt Butler Technical University, India, **Devendra Kumar Singh**, **Arpan Kumar Mondal**, **Panagiotis Kyratsis** Uni of Western Macedonia, Greece

Series: *Computational Product Design and Digital Manufacturing*

The volume reviews the advances in composite materials, hybrid systems and additive manufacturing, combining concepts and applications. Themes comprise metal matrix composites, natural fiber treatments, polymer nanocomposites, hydrogen storage materials, drug delivery nanocomposites, and optoelectronic materials. Applied perspectives extend to disc brake FEA analysis, coatings, ecofriendly cutting fluids, solar PV waste management, and reinforced UHMWPE for biomedical joints. By bridging materials science, energy, healthcare, and environment, it offers a comprehensive vision for sustainable technological growth.

CRC Press

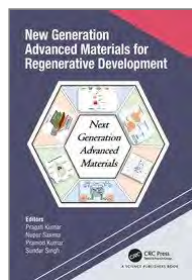
June 2026 : 252pp

Hb: 978-1-041-09593-4 : £105

eBook: 978-1-003-66820-6

* For full contents and more information, visit: www.routledge.com/9781041095934

New Generation Advanced Materials for Regenerative Development



Edited by **Pragati Kumar** Central Uni of Jammu, India, **Nupur Saxena** IIT Jammu, India, **Pramod Kumar** Central Uni of Himachal Pradesh, India, **Sundar Singh**

The book "New Generation Advanced Materials for Regenerative Development" introduces the readers into the world of next generation of materials with their futuristic applications to serve the mankind. The range of advanced materials includes waste derived carbon nanomaterials, bio-materials, green and biogenic metal chalcogenides, 2D chalcogenides, MOFs, COFs, and non-toxic perovskites. All these materials possess divine qualities and have been researched to be made free from any delinquency. Further, the applications of these super smart materials are discussed within the framework of regenerative development for the ease-of-life for humans on earth.

CRC Press

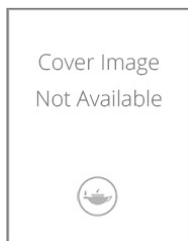
May 2026 : 382pp

Hb: 978-1-032-67047-8 : £155

eBook: 978-1-032-69331-6

* For full contents and more information, visit: www.routledge.com/9781032670478

A Primer on Post-Quantum Cryptography



Douglas R. Stinson University of Waterloo, Ontario, Canada

Series: *Chapman & Hall/CRC Cryptography and Network Security Series*

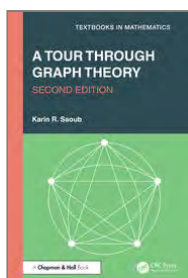
This is intended to be the reader's first book on this important topic of Post-Quantum Cryptography. The author presents the essential concepts by choosing a representative sample of useful cryptographic schemes to illustrate the most important design techniques. He includes the historical development and motivation for these schemes. The goal is to make this topic accessible to a beginning graduate student or an advanced undergraduate student who is strong in mathematics. The book should also be useful to researchers seeking an introduction to this important and developing area.

Chapman & Hall
November 2026 : 304pp
Pb: 978-1-032-89581-9 : **£59.99**
Hb: 978-1-032-89477-5 : **£150**

* For full contents and more information, visit: www.routledge.com/9781032895819

2ND EDITION

A Tour through Graph Theory



Karin R. Saoub

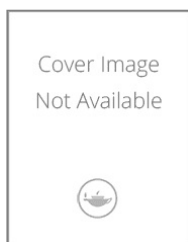
Series: *Textbooks in Mathematics*

The book introduces graph theory to students who are not mathematics majors. New to this second edition, the author offers more explanation for concepts and more context for the topics. More than 40 new exercises have been added, and 50 additional graphs have been added to existing exercises to provide more options for homework or quiz problems. This book is intended to strike a balance between focusing on the theory and exploration of proof techniques and the algorithmic aspect of graph theory. Explanations and logical reasoning for solutions are provided. Each chapter includes problems to test understanding of the material and can be used for homework, quiz problems, or self-study.

Chapman & Hall
June 2026 : 394pp
Pb: 978-1-032-85081-8 : **£59.99**
Hb: 978-1-032-85455-5 : **£160**
eBook: 978-1-003-52113-6

* For full contents and more information, visit: www.routledge.com/9781032850818

A Visual Approach to Introductory Functional Analysis



Paul Dayao

A Visual Approach to Introductory Functional Analysis is designed to offer a visual, geometric approach to functional analysis which bridges the gap between elementary analysis and advanced Banach Space Theory. This book can serve as a concise textbook for an undergraduate course on introductory functional analysis course, or as a geometrically-focussed supplement to a more advanced treatment of the subject.

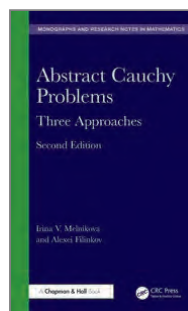
Chapman & Hall
October 2026 : 200pp
Pb: 978-1-041-35918-0 : **£59.99**
Hb: 978-1-041-35859-6 : **£160**

* For full contents and more information, visit: www.routledge.com/9781041359180

2ND EDITION

Abstract Cauchy Problems

Three Approaches



Irina V. Melnikova Institute of Mathematics and Computer Sciences, Ural Federal University, Yekaterinburg, Russia, **Alexei Filinkov**

Series: *Chapman & Hall/CRC Monographs and Research Notes in Mathematics*

The second edition addresses several recent developments not included in the original book, including new applications of semigroup, distribution and regularization methods to partial differential equations, to pseudo-differential equations and to stochastic problems.

Chapman & Hall
September 2026 : 296pp
Hb: 978-1-032-89415-7 : **£175**

* For full contents and more information, visit: www.routledge.com/9781032894157

AI for Decision Intelligence in Critical Systems



Edited by **Shahab Saquib Sohail**, **Arpita Soni**, **Satish Mandavalli**, **Shantanu Kumar**, **Gautam Siddharth Kashyap** IIIT Delhi, New Delhi, India

Series: *Advances in Applied Mathematics*

This edited book is a multi-disciplinary reference on how domain-aware AI models can outperform generic approaches by addressing sector-specific complexities. It offers comparative frameworks, reproducible case studies, and real-world applications of emerging AI methods. It brings together twenty-one chapters of original research, each exploring how Artificial Intelligence (AI), Machine Learning (ML), and Deep Learning (DL) are shaping innovation across critical domains. It is for academics and researchers in computer science, AI, and data science; industry professionals in transportation, software engineering, finance; and policymakers seeking to apply AI systems effectively.

Chapman & Hall
August 2026 : 248pp
Pb: 978-1-041-30483-8 : **£110**
Hb: 978-1-041-30484-5 : **£175**

* For full contents and more information, visit: www.routledge.com/9781041304838

Almost Periodic Functions and Integro-Differential-Difference Equations in Locally Convex Spaces



Marko Kostić University of Novi Sad, Serbia

Ideal for PhD students in mathematics, postdoctoral researchers and mathematicians working within the field of almost periodic functions and abstract Volterra integro-differential inclusions to acquire new techniques and deepen their knowledge.

Chapman & Hall
October 2026 : 508pp
Hb: 978-1-041-35398-0 : **£205**

* For full contents and more information, visit: www.routledge.com/9781041353980

Applied Linear Algebra for Engineers



Michael F. Insana

Applied Linear Algebra for Engineers is an attempt to bridge the gap between concepts and practice by providing engineering context to fundamental topics in linear algebra in a self-learning format. Formal mathematics and historical references are suppressed in favor of examples and exercises all worked out analytically and numerically with results explained graphically where appropriate. This aim of this text is to empower senior students and practicing engineers and scientists with some previous exposure to linear algebra to dive into applications with confidence, and to deepen their understanding and innovative uses of linear algebra.

Chapman & Hall

October 2026 : 360pp

Hb: 978-1-041-35868-8 : £96.99

* For full contents and more information, visit: www.routledge.com/9781041358688

Applied Mathematics Toolkit

Modeling, Data, and Algorithms for Scientists and Engineers



Nan Chen, Charlotte Moser

For advanced undergraduate students, graduate students, and researchers in applied mathematics, science, and engineering who seek practical mastery of modern mathematical tools. It is well suited to topic courses and self-study, particularly for readers working at the intersection of modeling, data, and computation.

Chapman & Hall

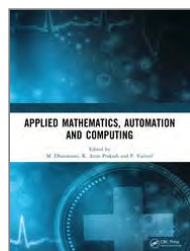
October 2026 : 304pp

Pb: 978-1-041-23824-9 : £52.99

Hb: 978-1-041-23826-3 : £130

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Applied Mathematics, Automation and Computing



Edited by **M. Dhavamani, K. Arun Prakash, P Vadivel**

It will highlight cutting edge research in computing, including areas such as algorithms, computational methods, artificial intelligence, and data science, and to discuss their practical applications. The conference fosters collaboration between mathematicians, computer scientists, engineers, and other specialists, which is essential for tackling complex problems such as big data analysis, cryptography and artificial intelligence.

CRC Press

May 2026 : 420pp

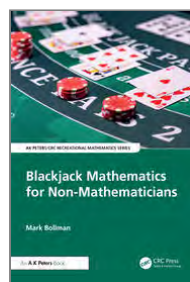
Pb: 978-1-041-29636-2 : £55.99

Hb: 978-1-041-29518-1 : £130

eBook: 978-1-003-77049-7

* For full contents and more information, visit: www.routledge.com/9781041296362

Blackjack Mathematics for Non-Mathematicians



Mark Bollman

Series: AK Peters/CRC Recreational Mathematics Series

This book explores the mathematics behind the casino game of blackjack or 21, with consideration given to a number of game variations that have, at times, found favor in casinos or in casual play. The emphasis is on the mathematics that underlies the game; the intention of is to present the math at a level that is accessible to the educated citizen, one who can handle some algebraic manipulations (perhaps with reminders) but need not know any calculus or advanced statistics.

A K Peters/CRC Press

August 2026 : 300pp

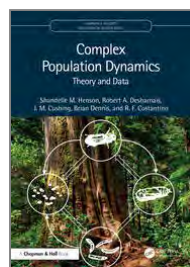
Pb: 978-1-041-03016-4 : £29.99

Hb: 978-1-041-03181-9 : £135

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Complex Population Dynamics

Theory and Data



Shandelle M. Henson, Robert A. Desharnais, J. M. Cushing, Brian Dennis, R. F. Costantino

Series: Chapman & Hall/CRC Mathematical Biology Series

This book brings together over two decades of research and reflection on experimental nonlinear population dynamics. The broad theme is the interface of population data and mathematical models. The authors establish a cornerstone example of a low-dimensional mathematical population model for which quantitative predictions, often unexpected, were borne out in controlled and replicated experiments. The book offers an invaluable resource to professional ecologists and applied mathematicians. Although primarily a reference text, it is written to be accessible and engaging to a student audience and could be used as supplementary reading in an advanced ecological modeling class.

Chapman & Hall

May 2026 : 338pp

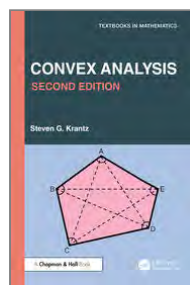
Hb: 978-1-032-73659-4 : £94.99

eBook: 978-1-003-46712-0

* For full contents and more information, visit: www.routledge.com/9781032736594

2ND EDITION

Convex Analysis



Steven G. Krantz Washington University, St. Louis, Missouri, USA

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.

Chapman & Hall

May 2026 : 177pp

Pb: 978-1-041-25322-8 : £52.99

Hb: 978-1-041-25325-9 : £200

eBook: 978-1-003-74618-8

* For full contents and more information, visit: www.routledge.com/9781041253228

Differential and Difference Equations in Mathematical Biology



Azmy S. Ackleh University of Louisiana, LaFayette, Louisiana, USA, **Hongying Shu**, **Xiang-Sheng Wang**

Series: Chapman & Hall/CRC Mathematical Biology Series

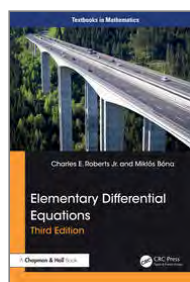
Differential and Difference Equations in Mathematical Biology introduces graduate and senior undergraduate students to differential and difference equations as tools for modeling biological phenomena. The book presents fundamental theory as well as recent research developments concerning the local and global analysis of continuous and discrete dynamical systems in mathematical biology. In addition to serving as a teaching text, the book is also valuable to researchers as both a reference and an introduction to the subject.

Chapman & Hall
September 2026 : 208pp
Pb: 978-1-032-75024-8 : **£52.99**
Hb: 978-1-032-75172-6 : **£150**

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3RD EDITION

Elementary Differential Equations



Charles E. Roberts Jr. Indiana State University, Terre Haute, USA, **Miklós Bóna** University of Florida, Gainesville, USA

Series: Textbooks in Mathematics

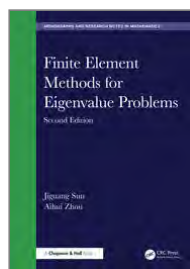
This third edition builds on the previous editions, continuing to innovate with the addition of a new topic: combinatorics. The goal is to assist instructors as they facilitate new teaching methods and utilize the latest technology in presenting a new topic to encourage students to explore mathematics and not only its applications. It continues to serve as an excellent introductory textbook for undergraduate students majoring in applied mathematics, computer science, various engineering disciplines and other sciences. They also will find that the textbook will aid them greatly in their professional careers because of its instructions on how to use computers to solve equations.

Chapman & Hall
June 2026 : 558pp
Hb: 978-1-041-15146-3 : **£96.99**
eBook: 978-1-003-67801-4

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2ND EDITION

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

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Chapman & Hall
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Svetlin G. Georgiev, **Khaled Zennir** Qassim University

Series: Advances in Applied Mathematics

This book is devoted to a systematic and comprehensive study of existence, stability, boundary value problems, oscillatory behaviour, and linear systems associated with generalized quantum impulsive differential equations. It aims to provide both a rigorous theoretical foundation and practical analytical tools for researchers, graduate students, and specialists working in nonlinear analysis, dynamic equations, and applied mathematics.

Chapman & Hall
October 2026 : 280pp
Hb: 978-1-041-36250-0 : **£170**

* For full contents and more information, visit: www.routledge.com/9781041362500

Geometric Orbifold Cohomology



Hisham Sati, **Urs Schreiber**

Cohomology theories defined on orbifold spacetimes. Geometric Orbifold Cohomology presents a modernized and enhanced formulation of these theories, establishing a rigorous framework for nonabelian and differential cohomology in the setting of higher geometry

Chapman & Hall
September 2026 : 344pp
Hb: 978-1-041-14751-0 : **£120**

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Geometry for Computer Applications



George Allen

Series: Advances in Applied Mathematics

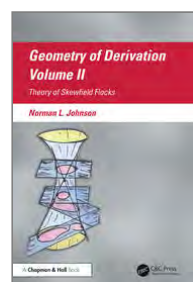
This book explores how geometry in computer systems forms an essential element of the manufactured objects we use every day--every curve drawn on a phone or computer screen, the first font on every printed page, every path followed by a robot, a CNC machine or a 3D printer, every structural or aerodynamic simulation, and every virtual world. The book is written for students of engineering, computer science, and applied mathematics. It will also be useful to instructors, CAD system users and practical software engineers, and anyone developing CAD software, games, animation, graphics, simulation, and manufacturing systems (both subtractive and additive).

Chapman & Hall
October 2026 : 566pp
Pb: 978-1-041-31557-5 : **£59.99**
Hb: 978-1-041-31560-5 : **£150**

* For full contents and more information, visit: www.routledge.com/9781041315575

Geometry of Derivation, Volume II

Theory of Skewfield Flocks



Norman L. Johnson Mathematics Department University of Iowa. Emeritus Professor Iowa City, Iowa

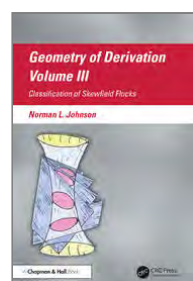
This book is concerned mainly with the theory of flocks over skewfields. It begins with discussing what conditions would be required to find a possible way to extend flocks of hyperbolic quadrics and flocks of quadratic cones. It gives the necessary theory for the reader to understand how to construct examples and become researchers in the field. This is the sixth work in a longstanding series of books on combinatorial geometry by the author. Like its predecessors, this book will primarily deal with connections to the theory of derivable nets and translation planes in both the finite and infinite cases.

Chapman & Hall
June 2026 : 340pp
Hb: 978-1-041-29094-0 : £120

* For full contents and more information, visit: www.routledge.com/9781041290940

Geometry of Derivation, Volume III

Classification of Skewfield Flocks



Norman L. Johnson Mathematics Department University of Iowa. Emeritus Professor Iowa City, Iowa

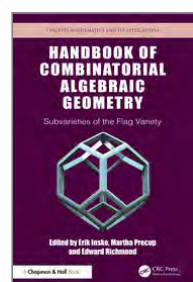
This is the third book in a series of books on the topic. It continues establishing the techniques, examples, and future directions of the specifics of flock theory over skewfields. Like its predecessors, it will primarily deal with connections to the theory of derivable nets and translation planes in both the finite and infinite cases. The book continues the presentation in Geometry of Derivations with Applications, Volume I, Johnson (2023), and Geometry of Derivation, Volume II: Theory of Skewfield Flocks (2026) is also available. This is the seventh work in a longstanding series of books on combinatorial geometry by the author, all published by CRC Press.

Chapman & Hall
June 2026 : 360pp
Hb: 978-1-041-29088-9 : £120

* For full contents and more information, visit: www.routledge.com/9781041290889

Handbook of Combinatorial Algebraic Geometry

Subvarieties of the Flag Variety



Edited by Erik Insko, Martha Precup, Edward Richmond

Series: Discrete Mathematics and Its Applications

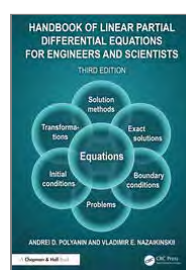
This handbook presents an introduction to current topics of mathematical research in combinatorial algebraic geometry. It introduces researchers to key literature from the past 20-30 years needed to address open questions in the field. It gives concrete, computational examples of Lie-theoretic and combinatorial tools applied to the geometry of flag varieties and their subvarieties. It is aimed at graduate students researching algebraic combinatorics and Lie theory; experts in the field seeking insights to techniques and the finer expository points of related topics; and Mathematicians looking for a centralized reference on the geometry and combinatorics of flag varieties.

Chapman & Hall
June 2026 : 1060pp
Hb: 978-0-367-70233-5 : £230

* For full contents and more information, visit: www.routledge.com/9780367702335

3RD EDITION

Handbook of Linear Partial Differential Equations for Engineers and Scientists



Andrei D. Polyanin, Vladimir E. Nazaikinskii

Now in its third edition this handbook presents solutions to numerous problems relevant to heat and mass transfer, wave theory, hydrodynamics, aerodynamics, elasticity, acoustics, electrodynamics, diffraction theory, quantum mechanics, chemical engineering sciences, electrical engineering, and other fields. New to this edition, include a chapter on linear ODEs and PDEs with delays; a chapter on linear ODEs and PDEs with fractional derivatives; some individual PDEs, solutions, transformations, formulas, and problems; and two sections on special functions used to solve linear ODEs and PDEs with delay or fractional derivatives.

Chapman & Hall
July 2026 : 1325pp
Hb: 978-1-032-78001-6 : £245

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2ND EDITION

Introduction to Computational Engineering with MATLAB®



Timothy Bower Kansas State University, USA

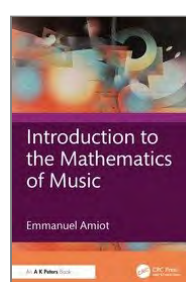
Series: Chapman & Hall/CRC Numerical Analysis and Scientific Computing Series

Introduction to Computational Engineering with MATLAB® aims to teach readers how to use MATLAB programming to solve numerical engineering problems. The book focuses on computational engineering with the objective of helping engineering students improve their numerical problem-solving skills. The book cuts a middle path between undergraduate texts that simply focus on programming and advanced mathematical texts that skip over foundational concepts, feature cryptic mathematical expressions, and do not provide sufficient support for novices.

Chapman & Hall
November 2026 : 480pp
Pb: 978-1-041-16908-6 : £66.99
Hb: 978-1-041-17090-7 : £170

* For full contents and more information, visit: www.routledge.com/9781041169086

Introduction to the Mathematics of Music



Emmanuel Amiot

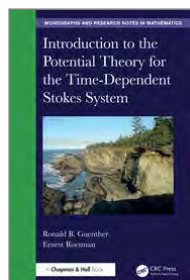
Series: AK Peters/CRC Recreational Mathematics Series

Aimed at helping bridge the substantial gap between a classical musician culture and the universe of mathematical notions in music. It explains the necessary notions, starting from scratch, with rigour but without any unnecessary formalism. It was developed from a course given in Perpignan, France, for a bachelor in Music theory. After a mandatory outline of the seminal role of numbers in music, based on the equations of consonance, the book introduces the essential formalisation of pitch-classes and pc-sets as elements and subsets of the integers modulo 12.

A K Peters/CRC Press
August 2026 : 168pp
Pb: 978-1-041-16816-4 : £36.99
Hb: 978-1-041-16817-1 : £92.99

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Introduction to the Potential Theory for the Time-Dependent Stokes System



Ronald B. Guenther, Ernest Roetman

Series: Chapman & Hall/CRC Monographs and Research Notes in Mathematics

Introduction to the Potential Theory for the Time-Dependent Stokes System deals with a careful presentation of the principles on which the physical problems are based and the mathematical treatment of the problems. These equations are linear and time dependent. The first step is the construction of a fundamental solution for the equations involved. They are analogous to the fundamental solutions for the potential and heat equations commonly found in the mathematical and engineering literature. The fundamental solution is used as in classical potential theory to construct solutions to initial and certain boundary value problems for the linear Stokes equations.

Chapman & Hall
July 2026 : 180pp
Hb: 978-0-367-40860-2 : **£165**
eBook: 978-0-367-80955-3

* For full contents and more information, visit: www.routledge.com/9780367408602

Kirchhoff Equations

A Variational Approach



Vicențiu D. Rădulescu

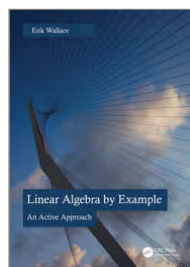
Kirchhoff Equations: A Variational Approach is primarily focussed on recent results concerning existence, multiplicity and the asymptotic behaviour of solutions to some stationary Kirchhoff problems, involving fractional integro-differential elliptic operators, and presenting difficulties relating to an intrinsic lack of compactness, which are elucidated upon within the text. These operators appear in a quite natural way in many different applications, such as, continuum mechanics, phase transition phenomena, population dynamics and game theory, as they are the typical outcome of stochastically stabilization of Lévy processes.

Chapman & Hall
August 2026 : 328pp
Hb: 978-1-041-35186-3 : **£115**

* For full contents and more information, visit: www.routledge.com/9781041351863

Linear Algebra by Example

An Active Approach



Erik Wallace

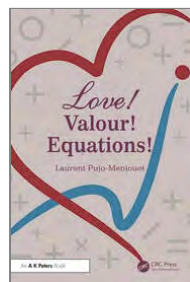
This book offers a modular, concept-driven introduction to linear algebra designed for undergraduate students across mathematics, engineering, computer science, and the sciences.

CRC Press
August 2026 : 374pp
Pb: 978-1-041-23508-8 : **£55.99**
Hb: 978-1-041-23504-0 : **£140**

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LOVE! VALOUR! EQUATIONS!

Mathematics of the Couple



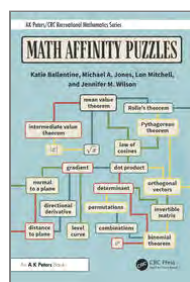
Laurent Pujo-Menjouet

Their hidden formula, their miracle recipe, their magic potion? In short, their secret? Laurent Pujo-Menjouet, a PhD in mathematics, might just hold the answer. Not a spell or an incantation, but a formula or more precisely, mathematical formulas. What if the solution to our romantic troubles lay in the very subject most of us once dreaded in school? If x and y could save your relationship, would you dare to step into the mind of a mathematician to solve matters of the heart?

A K Peters/CRC Press
August 2026 : 160pp
Pb: 978-1-041-28170-2 : **£29.99**
Hb: 978-1-041-28169-6 : **£62.99**

* For full contents and more information, visit: www.routledge.com/9781041281702

Math Affinity Puzzles



Katie Ballentine, Michael A. Jones, Lon Mitchell, Jennifer M. Wilson

Series: AK Peters/CRC Recreational Mathematics Series

Math Affinity Puzzles uses analogies to explore connections between mathematical terms and concepts, where solving a puzzle requires unraveling the relationships between the mathematical ideas. Solving this kind of mathematical puzzle is not about assessing understanding but deepening it, making the connections, and having fun doing it. The puzzles in this book can be enjoyed on their own or as supplements in a course setting. They can be used in calculus and upper-level classes as homework assignments and for in-class discussions. Students justify the one they have chosen, offering opportunities for noncomputational critical thinking, speaking, and writing about mathematics.

A K Peters/CRC Press
June 2026 : 298pp
Pb: 978-1-032-98650-0 : **£44.99**
Hb: 978-1-032-99208-2 : **£155**

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Mathematical Analysis with Topological Examples

A Narrative Approach for Undergraduates



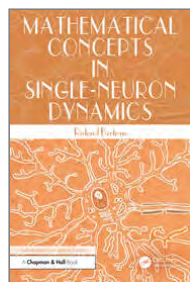
Omid Zabeti

This book offers an introduction to elementary analysis for undergraduates studying mathematics or any related quantitative science. This book takes a unique approach, adopting a narrative framework to guide students through the material as though it were an unfolding story. Alongside this, the book introduces a vast array of examples from the world of topology to illustrate the core principles of analysis in an engaging and accessible way. This book is suitable for undergraduate students who are familiar with elementary calculus. It can serve as an introduction to elementary analysis and a supplementary resource for a course in topology.

Chapman & Hall
October 2026 : 264pp
Pb: 978-1-041-10756-9 : **£52.99**
Hb: 978-1-041-10352-3 : **£115**

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Mathematical Concepts in Single-Neuron Dynamics



Richard Bertram

Series: The Mathematical Concepts in Science Series

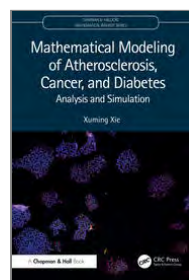
Hands-on guide bridges the gap between mathematics and neuroscience, providing clear explanations of the key dynamical systems concepts that appear repeatedly in the computational/mathematical neuroscience literature.

Chapman & Hall
May 2026 : 136pp
Pb: 978-1-041-23817-1 : **£52.99**
Hb: 978-1-041-23819-5 : **£130**
eBook: 978-1-003-73838-1

* For full contents and more information, visit: www.routledge.com/9781041238171

Mathematical Modeling of Atherosclerosis, Cancer, and Diabetes

Analysis and Simulation



Xuming Xie Morgan State University, USA

Series: Chapman & Hall/CRC Mathematical Biology Series

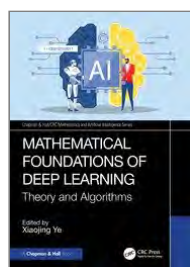
This book provides state of art mathematical models describing the dynamical behaviour of diabetes, atherosclerosis and cancer, focussing not only on numerical simulations, but also on the mathematical analysis of the models themselves. The book is aimed at professional mathematical analysts, applied mathematicians, biophysicists, and biomedical engineers. It can also be used to teach graduate students, while it should be valuable reference for researchers in mathematical biology, dynamical systems, PDEs and stochastic differential equations.

Chapman & Hall
August 2026 : 314pp
Hb: 978-1-032-45320-0 : **£115**

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Mathematical Foundations of Deep Learning

Theory and Algorithms



Xiaojing Ye

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

Offers a comprehensive and rigorous treatment of the mathematical principles underlying modern deep learning.

Chapman & Hall
August 2026 : 286pp
Pb: 978-1-032-87708-2 : **£67.99**
Hb: 978-1-032-87550-7 : **£160**

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Mathematical Tidbits



Jens Cartensen

Series: AK Peters/CRC Recreational Mathematics Series

Mathematical Tidbits presents readers with a fascinating collection of short essays from a wide variety of mathematical disciplines, ranging from number theory, trigonometry, probability to geometry. Mathematicians and students of mathematics will experience no problems in following the development of the concepts at hand, while complete laypeople will find things to engage and stimulate them into further exploration. This book would be an ideal gift for a student or mathematics teacher, while anyone with an interest in mathematics will find it an enjoyable collection of familiar and not-so-familiar problems and ideas to read at their leisure.

A K Peters/CRC Press
September 2026 : 302pp
Pb: 978-1-041-28872-5 : **£22.99**
Hb: 978-1-041-29951-6 : **£76.99**

* For full contents and more information, visit: www.routledge.com/9781041288725

Mathematical Modeling and Simulation of Complex Fluid Systems



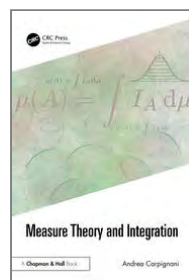
Edited by Satyvir Singh , Mukesh Kumar Awasthi

This book explores modern fluid mechanics through mathematical modeling and advanced computational, covering complex topics like compressible flows and fluid-structure interactions. It integrates computational techniques, multiscale modeling, and AI applications, with a focus on industry-specific challenges in energy, manufacturing, and environmental sciences. This book spans fundamental fluid mechanics to cutting-edge simulations of complex fluid systems, providing insights into a wide range of fluid behaviors in engineering, biological, environmental, and industrial contexts.

Chapman & Hall
October 2026 : 304pp
Hb: 978-1-041-12127-5 : **£120**

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Measure Theory and Integration



Andrea Carpinani

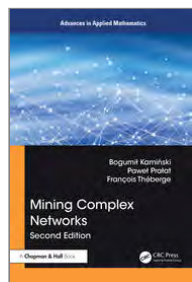
Offers a rigorous, comprehensive, and modern presentation of the most traditional concepts in measure theory and integration. Building on the classical foundations, it introduces the theory with full generality and meticulous attention to detail, following the stylistic tradition first introduced by Nicolas Bourbaki.

Chapman & Hall
May 2026 : 340pp
Hb: 978-1-041-20899-0 : **£94.99**
eBook: 978-1-003-72476-6

* For full contents and more information, visit: www.routledge.com/9781041208990

2ND EDITION

Mining Complex Networks



Bogumił Kamiński , Paweł Prałat , François Théberge

Series: Advances in Applied Mathematics

This book concentrates on mining networks, a subfield within data science. The field has seen significant advancements since the first edition was published. Changes and updates to this edition include: new material and examples on random geometric graphs, new tools and techniques on mining hypergraphs, and a chapter on fairness in network mining models. Mining complex networks to understand the principles of the organization and behavior of such networks is crucial for a broad range of fields of study, including information and social sciences, economics, biology, and neuroscience. This book is suitable for an upper-year undergraduate course or a graduate course.

Chapman & Hall
May 2026 : 326pp
Pb: 978-1-041-26192-6 : **£62.99**
Hb: 978-1-041-26191-9 : **£190**
eBook: 978-1-003-74953-0

* For full contents and more information, visit: www.routledge.com/9781041261926

2ND EDITION

Modelling with Ordinary Differential Equations

A Comprehensive Approach



Alfio Borzi University of Wurzburg, Germany

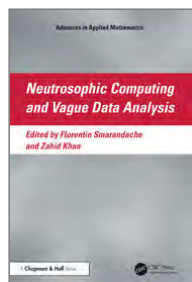
Series: Chapman & Hall/CRC Numerical Analysis and Scientific Computing Series

This book aims to provide a broad and self-contained introduction to the mathematical tools necessary to investigate and apply ODE models. This second edition has been thoroughly revised, reorganised, and expanded with new material across most chapters. The theoretical foundations are strengthened by additional results on existence and uniqueness, Lipschitz conditions, blow-up phenomena, and Green functions, as well as new sections on compartment models and Hamiltonian systems.

Chapman & Hall
October 2026 : 528pp
Pb: 978-1-032-89764-6 : **£59.99**
Hb: 978-1-032-89424-9 : **£160**

* For full contents and more information, visit: www.routledge.com/9781032897646

Neutrosophic Computing and Vague Data Analysis



Edited by Florentin Smarandache , Zahid Khan

Series: Advances in Applied Mathematics

This edited volume provides a comprehensive exploration of neutrosophic methodologies, emphasizing their computational frameworks, theoretical advancements, and practical applications. It introduces practical tools, and provides detailed examples and case studies demonstrating the use of neutrosophic models in science, engineering, medical diagnostics, environmental modeling, economics, and decision-making under uncertainty. The book aims to make neutrosophic theory more accessible and applicable to a wider audience, including researchers, practitioners, and students, empowering readers to tackle complex problems with innovative solutions grounded in neutrosophic methodologies.

Chapman & Hall
July 2026 : 358pp
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Perspective as Geometry and Design



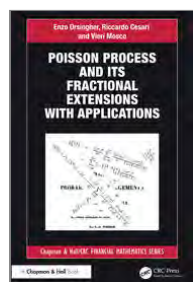
Dhirgham T. Murrin

Redefines the foundations of perspective drawing through a unified and rigorously geometric approach. Designed for artists, architects, designers, and engineers, the book presents perspective not simply as a visual convention.

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Poisson Process and its Fractional Extensions with Applications



Enzo Orsingher Sapienza University of Rome Rome, Italy,
Riccardo Cesari Università di Bologna e ivass, **Vieri Mosco** IVASS

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This book accompanies the reader from the simple, standard Poisson process to its more complex transformations, using a unified framework, showing proofs of basic theorems and references to more difficult results. The reader will also benefit from the empirical applications of the various models to real data in finance and insurance (stock market crashes and fire accidents), physics and geology (earthquakes), biology and demography (births, deaths, pandemics), etc. Many of the applications relate to financial mathematics, and a professional can glean a lot from an understanding of how to apply this important mathematical tool.

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Python for Asset Management



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Real and Complex Analysis

Volume 1



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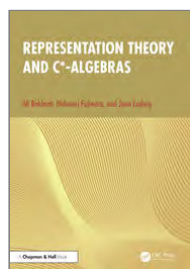
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Representation Theory and C^* -algebras



Ali Baklouti , Hidenori Fujiwara , Jean Ludwig

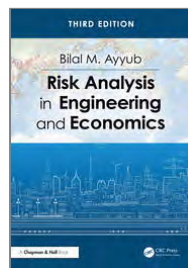
Representation Theory and C^* -algebras is devoted to the representation theory of solvable Lie groups and the associated non-commutative harmonic analysis including the study of C^* -algebras. It contains full proofs of long-standing problems in the theory, including several polynomial conjectures and primitive zero ideals descriptions. It provides an in-depth study of their structural properties, the classification of unitary representations using the orbit method, and the underlying algebraic and analytic frameworks.

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Risk Management Strategies Using Fuzzy Optimization Techniques



Kandarp Vidyasagar , Rajiv Kumar Dwivedi , Chandrani Singh , Valentina Emilia Balas Aurel Vlaicu University of Arad, Romania

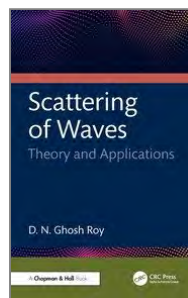
The book explores advanced risk management strategies through fuzzy decision-making and optimisation techniques. It provides a structured approach to handling ambiguity and imprecise data in critical decision-making environments. This book examines fuzzy set theory, fuzzy numbers, fuzzy decision trees, and fuzzy clustering for risk assessment. With a focus on fuzzy goal programming, the book offers practical methodologies for maximising returns, minimising risks, and maintaining liquidity across diverse sectors. This book is a valuable resource for students, researchers, and professionals seeking to improve decision-making under uncertainty in finance, management, and engineering.

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Scattering of Waves

Theory and Applications



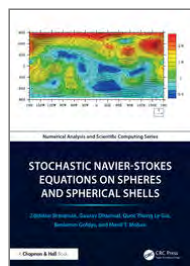
D. N. Ghosh Roy (816)Utah Center For Advanced Imaging Research (UCAIR), Salt Lake City, USA

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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Managing Risk Appetites across Modelling, Structuring, and Hedging



Aymeric Kalife

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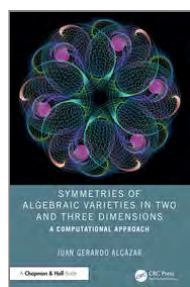
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With Mathematica



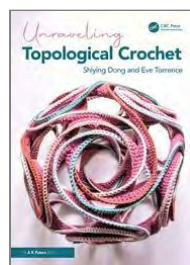
Paul R. Garvey

This book seeks to illuminate this powerful framework by integrating theoretical insights with practical applications. It serves two primary goals: to provide a clear introduction to the calculus of finite differences and first-order difference equations, and to guide readers toward advanced methods for deeper exploration. This text is written for undergraduate students in mathematics, business, economics, and other quantitative sciences. Researchers and professionals who use mathematical modeling in their work, and anyone intrigued by the role of mathematics in understanding discrete systems, will also find tremendous value in this text.

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Unraveling Topological Crochet



Shiyong Dong, Eve Torrence

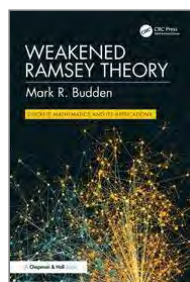
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Weakened Ramsey Theory



Mark R. Budden Western Carolina University, USA

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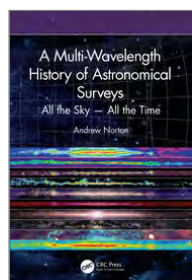
Weakened Ramsey Theory provides readers with an overview of weakened generalizations of various parameters studied in Ramsey theory. Weakened generalizations of Ramsey numbers, Gallai-Ramsey numbers, Schur numbers, Rado numbers, rainbow Schur numbers, and others have all been studied in the literature, and this book offers a thorough overview of the known results, with complete proofs. This book is a valuable resource to advanced undergraduates, graduate students, and researchers working in Ramsey theory. Only a basic background in graph theory, algebra, and number theory are assumed, although a concise review of important definitions and background results is included.

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A Multi-Wavelength History of Astronomical Surveys

All the Sky — All the Time



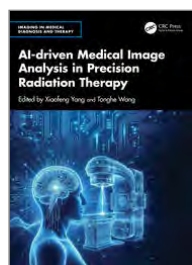
Andrew Norton

The book presents an accessible history of astronomical surveys across the electromagnetic spectrum and beyond. Beginning with classical visual surveys of the sky, it moves on to the present day where surveys now look beyond visible light into other regions of the electromagnetic spectrum. The book also considers online meta-catalogues and data archives that now exist and reflects on recent developments in machine learning and citizen science. Interspersed within the chapters are a series of feature boxes that explain the exciting astrophysical concepts and phenomena revealed by surveys; enabling the book to be read by anyone with an interest in astronomy.

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An Introduction to Disorder

Entropy, Information, and Morphologies



Arthur McGurn

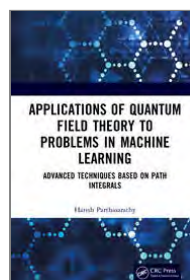
This book offers an introduction to the physics of disordered systems, from their foundations in entropy and statistical mechanics to modern applications in information and quantum information theory. Designed for advanced undergraduates and first-year graduate students, this book serves as a comprehensive entry point into the study of disorder. It provides a solid conceptual foundation while pointing readers to key research literature for deeper exploration, making it both an accessible textbook and a valuable reference for future study. Throughout, the mathematics is kept as simple as possible, with more advanced methods introduced only when needed.

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Advanced Techniques Based on Path Integrals



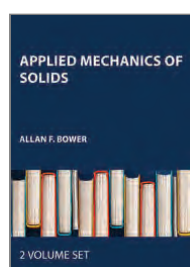
Harish Parthasarathy

This book addresses quantum neural network advancements through field theory integration and computational modeling techniques. The comprehensive analysis covers supersymmetric applications, adaptive systems, and filtering methodologies essential for understanding modern quantum computational frameworks and signal processing innovations. This title has been co-published with Manakin Press. T&F does not sell or distribute the print editions in Bangladesh, Bhutan, India, Nepal, Pakistan, and Sri Lanka.

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Applied Mechanics of Solids - 2 VOL SET



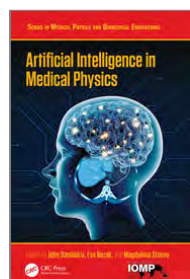
Allan F. Bower Brown University, Providence, Rhode Island, USA

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.

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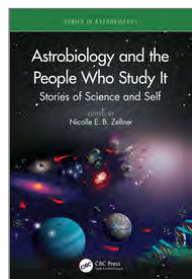
Artificial Intelligence (AI) is transforming the landscape of medical imaging, radiation oncology, and healthcare decision-making. This book brings together experts to examine exactly how AI is changing the field of medical physics and enhancing patient care. In addition to reviewing cutting-edge technologies, it considers critical issues of ethical frameworks, educational pathways for the workforce, data governance, algorithm transparency, and accountability. This book is a valuable guide for medical physicists and related disciplines including radiologists, radiographers, medical engineers, hospital managers, and academic scholars working in the field of healthcare.

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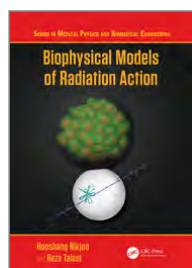
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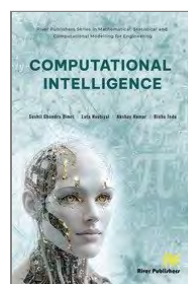
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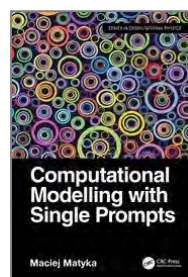
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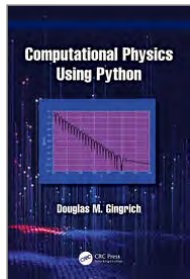
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CRC Press

June 2026 : 298pp

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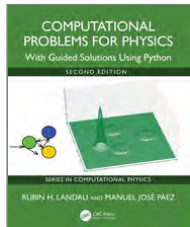
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CRC Press

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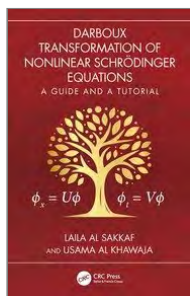
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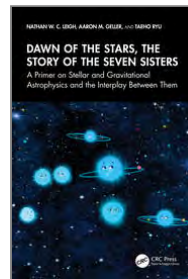
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A Primer on Stellar and Gravitational Astrophysics and the Interplay Between Them



Nathan W. C. Leigh, **Aaron M. Geller**, **Taeho Ryu**

This book offers a unique approach to astrophysics by combining scientific content with an engaging narrative. It introduces readers to the principles of stellar evolution, star formation, binary interactions, and gravitational astrophysics through the story of seven stars, the Seven Sisters. It introduces and explains astrophysical concepts in an accessible and enjoyable way without sacrificing scientific accuracy. It will be a valuable resource for senior high school students seeking an introduction to astrophysics, in addition to undergraduate and graduate students looking for a conceptual primer. It can also be enjoyed by educators and enthusiasts interested in the topic.

CRC Press

July 2026 : 312pp

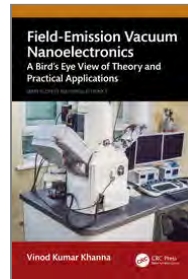
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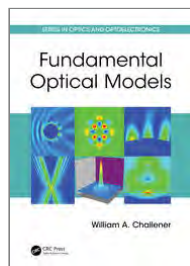
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Fundamental Optical Models



William A. Challener

Series: Series in Optics and Optoelectronics

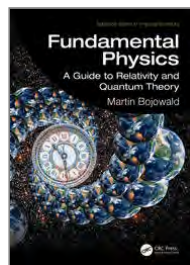
This book addresses the theory of several fundamental optical problems and provides insights into converting theory into computer software. The book's nine chapters cover the optics of multilayer thin films, planar waveguides, multilayer conformal thin films on diffraction gratings, the method of lines for modeling more general waveguides, cylindrical waveguides (i.e. optical fibers) with multilayers, fields in the vicinity of the focus of a lens, near field-to-far field transforms, and scattered field finite difference time domain modeling. It is suitable for undergraduate and graduate students studying electromagnetism and optics, as well as industrial researchers.

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Fundamental Physics

A Guide to Relativity and Quantum Theory



Martin Bojowald

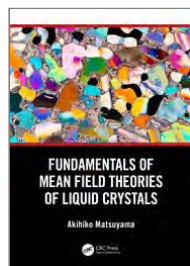
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Akihiko Matsuyama

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General Relativity and Its Applications

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Valeria Ferrari, Leonardo Gualtieri, Paolo Pani

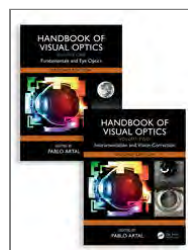
Containing the latest, groundbreaking discoveries in the field, this textbook outlines the basics of Einstein's theory of gravity with a focus on its most important astrophysical consequences, including stellar structures, black holes, and the physics of gravitational waves. This new edition has been updated throughout to contain the latest gravitational wave discoveries and the most recent developments in the field, as well as new material on black hole solutions, tidal deformability of compact objects, and gravitational waveform modelling.

CRC Press
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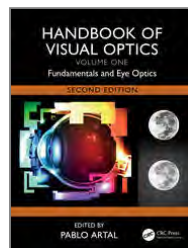
CRC Press
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Hb: 978-1-041-25413-3 : £295

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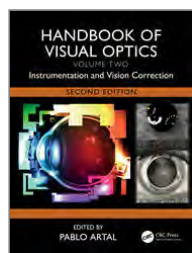
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Handbook of Visual Optics, Volume Two

Instrumentation and Vision Correction

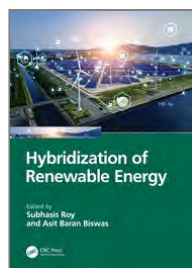
Edited by **Pablo Artal**

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.

CRC Press
May 2026 : 434pp
Hb: 978-1-032-69150-3 : **£175**
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Hybridization of Renewable Energy

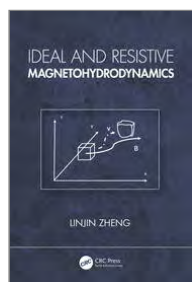
Edited by **Subhasis Roy , Asit Baran Biswas**

This book addresses the burgeoning need for innovative and sustainable approaches to energy generation. It aims to bridge the gap between theoretical advancements and practical applications in renewable energy by leveraging hybrid engineering techniques. Topics covered include solar hybrid systems and energy storage; hybrid systems for smart grids; hybrid thermochemical renewable energy conversion; hybrid biochemical renewable energy conversion; and energy storage. Case studies are supplied throughout, and other important factors such as economic impact are also briefly discussed. This book will be of interest to environmental physicists, engineers, and environmental scientists.

CRC Press
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Ideal and Resistive Magnetohydrodynamics

Linjin **Zheng**

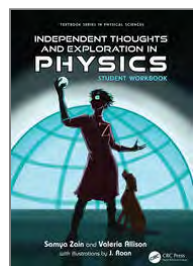
This book describes state-of-the-art theories and applications of ideal and resistive magnetohydrodynamics (MHD). It fills a gap in the market between existing textbooks and the latest cutting-edge research developments, reviewing the profound and pioneering contributions of the theory's founders and the latest developments and technologies. This book will appeal to graduate students and researchers in plasma physics. Although it focuses mainly on magnetically confined fusion plasma physics, it will also be useful to students and researchers in adjoining fields, including space plasma physics.

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Independent Thoughts and Exploration in Physics

Student Workbook



Samya Zain , Valerie Allison

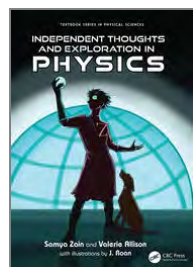
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Independent Thoughts and Exploration in Physics: Student Workbook teaches physics using an inquiry-based approach. Using stories to engage with students, the textbook follows a compelling comic-strip narrative with consistent characters which take students on 'missions' that involve solving physics-based tasks. These tasks are split into multiple levels to accommodate beginners and advance learners alike. Fully equipped with lesson plans to aid lecturers, it also includes comprehensive labs that can be set up quickly and affordably across the world.

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Independent Thoughts and Exploration in Physics



Samya Zain , Valerie Allison

Series: *Textbook Series in Physical Sciences*

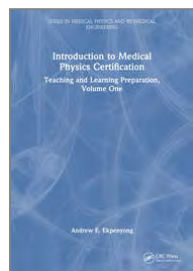
Independent Thoughts and Exploration in Physics teaches physics using an inquiry-based approach. Using stories to engage with students, the textbook follows a compelling comic-strip narrative with consistent characters which take students on 'missions' that involve solving physics-based tasks. These tasks are split into multiple levels to accommodate beginners and advance learners alike. Fully equipped with lesson plans to aid lecturers, it also includes comprehensive labs that can be set up quickly and affordably across the world.

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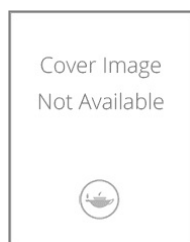
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Andrew E. Ekpenyong

Series: Series in Medical Physics and Biomedical Engineering

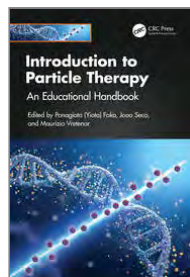
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Introduction to the Physics of Lasers



Surendra Singh

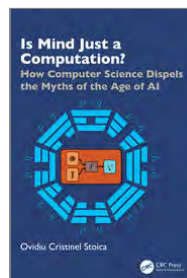
The textbook presents the physics of lasers in a logical progression starting with Maxwell's equations and light as an electromagnetic wave interacting resonantly with a material medium in the presence of optical feedback and excitation of the medium by a power source.

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Is Mind Just a Computation?

How Computer Science Dispels the Myths of the Age of AI



Ovidiu Cristinel Stoica

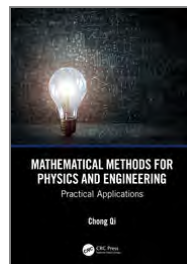
In an era dominated by Artificial Intelligence, this book takes readers on a journey through Computer Science, Physics, and Mathematics to tackle the following questions: 1. Can a computer program truly think? Can it be sentient? 2. Is the human mind reducible to computation? This book is for anyone intrigued by the nature of mind and machine: from curious lay readers to philosophers, computer scientists, and AI enthusiasts. It serves as an engaging introduction for beginners while offering fresh perspectives for experts. It can be used as supplementary material in courses on Comp. Sci., AI, and Philosophy of Mind for senior undergraduate and graduate students.

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Mathematical Methods for Physics and Engineering

Practical Applications



Chong Qi

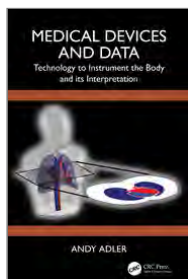
This book provides an accessible introduction to mathematical methods essential for physics, engineering, and modern computational analysis. Starting from foundational topics such as ordinary and partial differential equations, readers are then introduced to powerful techniques such as Fourier and Laplace transforms, series expansions, matrix and eigenvalue methods, and numerical strategies. This is an ideal textbook for advanced undergraduate and graduate students studying mathematical methods for physics and/or engineering. Readers are equipped not only a versatile toolkit of methods, but also a deeper conceptual understanding of when, where, and why each tool is appropriate.

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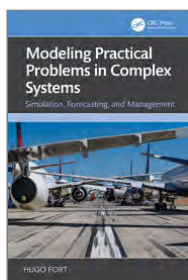
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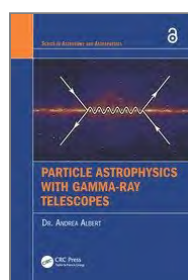
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CRC Press

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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

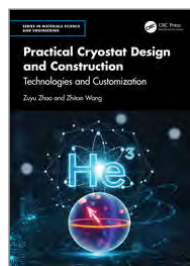
Plasma Electronics: Applications in Microelectronic Device Fabrication, Third Edition, explains the fundamental physics and numerical methods essential for advancing these technologies from laboratory research to manufacturing-scale modeling and design of plasma sources and processes. This comprehensive resource has established itself as the standard reference for scientists, engineers, and graduate students working with weakly ionized, non-equilibrium plasmas.

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Technologies and Customization



Zuyu Zhao, Zhitao Wang

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Problems and Solutions in Medical Physics

Nuclear Medicine Physics



Kwan Hoong Ng University of Malaya, Kuala Lumpur, Malaysia, **Chai Hong Yeong**, **Alan Christopher Perkins** University of Nottingham, UK

Series: Series in Medical Physics and Biomedical Engineering

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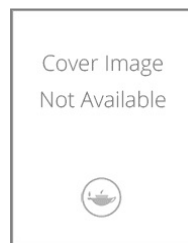
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This volume serves as a study guide and revision resource for postgraduate students preparing for examinations in radiotherapy physics. The 147 problems and solutions presented reflect the typical syllabi adopted by universities and training programmes worldwide. This invaluable study guide should be used in conjunction with other key textbooks in the field to provide additional learning opportunities. This second edition has been carefully reviewed and updated to better reflect current clinical practice and evolving standards. This book forms part of a four-volume set. Companion volumes address diagnostic imaging physics, nuclear medicine physics and radiation protection.

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4TH EDITION

Quantum Mechanics

An Introduction for Devices Physicists and Electrical Engineers



David K. Ferry Arizona State University, Tempe, USA

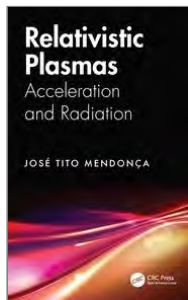
This book teaches quantum mechanics for students of semiconductor device physics and electrical engineering, developed from a course the author has taught for many years. It provides the necessary background for those starting work on micro- and nanoelectronic structures and is particularly useful for those beginning work with modern semiconductor devices, lasers and qubits. Each topic includes examples which have been carefully chosen to draw upon relevant experimental research. It also includes problems with solutions to test understanding of theory. Fully updated throughout, the fourth edition contains the latest developments, experiments, and device concepts.

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José Tito Mendonça

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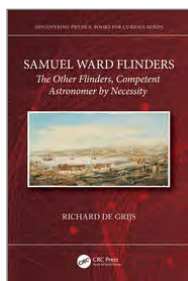
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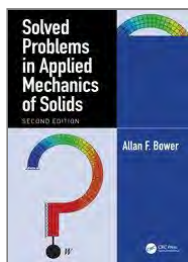
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Allan F. Bower Brown University, Providence, Rhode Island, USA

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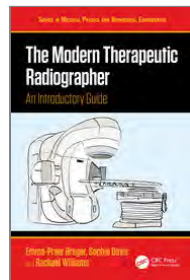
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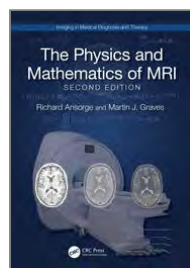
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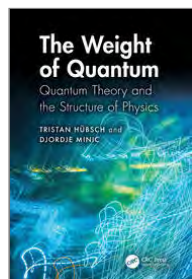
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The Weight of Quantum

Quantum Theory and the Structure of Physics



Tristan Hübsch, Djordje Minic

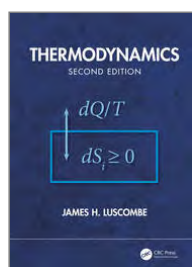
This book provides a unified overview of “modern physics” — combining its foundational pillars: relativity, quantum physics and gravity — and takes the reader on a tour of fundamental physics, through structural, historical and biographical perspectives. The book presents a “big picture” of physics, as well as its completion in terms of a new vision of the quantum theory of space, time, matter and energy. This book will be of interest to undergraduate and graduate students of physics, professional physicists and scientists from other disciplines, as well as a general audience of non-professionals interested in the topic.

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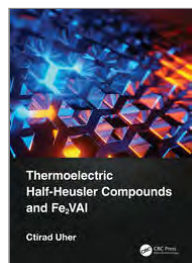
James H. Luscombe

This book provides an accessible yet thorough introduction to thermodynamics, crafted and class-tested over many years of teaching and developed in consultation with a large number of instructors to ensure wide applicability to modules on thermodynamics. Suitable for advanced undergraduate and graduate students, this book delivers clear descriptions of how to think about the mathematics and physics involved. This new edition has been fully updated, each chapter has been rewritten with an emphasis on increased clarity for the reader. Chapters include expanded coverage of chemical thermodynamics, phase transitions, and non-equilibrium thermodynamics.

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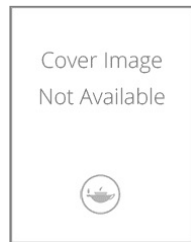
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Advanced Investigation Strategies for IoT Forensics

Technical Approaches to Encrypting, Security, and Investigation Strategies in IoT Forensics



Edited by **Shreyas J Mani** Institute of Technology Bengaluru, India, **Keshav Kaushik** UPES, Dehradun, India, **Gururaj H L Mani** Institute of Technology, India, **Tanupriya Choudhury**, **Udayaprasad P K**

Advanced Investigation Strategies for IoT Forensics: Technical Solutions to Security and Investigative Methodologies in IoT Forensics is an edited book that explores the crossroads of digital forensics and the Internet of Things. The book offers a one-stop solution to understanding forensic mechanisms, security weaknesses, and privacy issues in IoT ecosystems. Spanning core theories, applied case studies, and new approaches—such as AI, blockchain, and memory forensics—the book is an essential handbook for researchers, practitioners, and students.

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Advanced Wireless Communication Technologies

From Fundamentals to Future Applications



Edited by **Sasmita Dash**, **Dilip Senapati** Department of Computer Science, University of Delhi

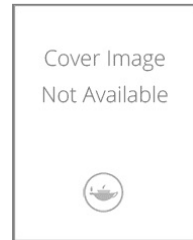
Advanced Wireless Communication Technologies: From Fundamentals to Future Applications explores the intricacies of modern and emerging wireless communication systems. It delves into fundamental theories, enabling technologies, network architectures, and practical applications to provide readers with a complete understanding of next-generation wireless communications. The book addresses crucial aspects of advanced wireless communication systems, including RF circuits, network infrastructures, antenna systems, MIMO techniques, and beamforming methods.

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AI and ML in IoT Security

Challenges, Solutions, and Future Directions



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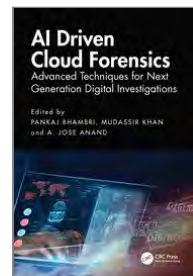
The book addresses the intersection of the Internet of Things (IoT) with advanced artificial intelligence (AI) and machine learning (ML) technologies and focuses on their impact on the security framework of extensively interconnected systems. It explores the utilization of AI and ML to create adaptive, intelligent systems that surpass static defences by facilitating real-time detection, anomaly identification, and privacy protection. The book analyzes realistic methods for threat detection and mitigation, along with their smooth integration into various IoT contexts without sacrificing performance or user experience.

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Advanced Techniques for Next Generation Digital Investigations



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AI for Environmental Innovation and Stewardship



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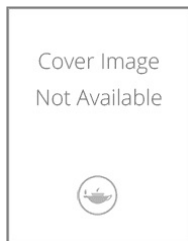
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This book explores the intersection of artificial intelligence (AI) technologies and their impact on the environment. It delves into the dual role of AI as a catalyst for innovation and a potential contributor to environmental challenges. The discussion revolves around the need to strike a delicate balance between harnessing the power of AI for positive advancements while ensuring responsible and sustainable practices. The goal is to leverage AI tools and technologies to develop innovative solutions that can enhance environmental conservation, monitoring, and sustainability. However, the implementation of AI comes with its own set of considerations and potential environmental impacts.

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AI, Machine Learning, and Blockchain for Next-Generation Spectrum Management



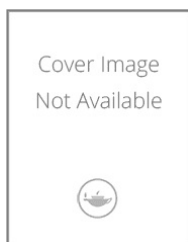
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AI, Machine Learning, and Blockchain for Next-Generation Spectrum Management presents a forward-looking exploration of how artificial intelligence, machine learning, and blockchain technologies are transforming spectrum management in the era of 5G and emerging 6G networks. Bridging engineering innovation with regulatory insight, it offers a comprehensive guide to dynamic, secure, and decentralized spectrum strategies. With real-world case studies, simulation-validated architectures, and actionable policy frameworks, the book serves researchers, engineers, and policymakers shaping the future of wireless communication infrastructure.

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AI-Driven National Cyber Defense and Resilience Strategies



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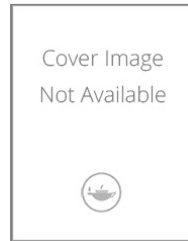
The acceleration of the digital transformation of critical infrastructure, government services, and military systems has profoundly changed the cyber threat landscape. Governments now face cyber risks of unprecedented scale and sophistication, ranging from advanced persistent threats (APTs) and AI-assisted cyber espionage to large-scale ransomware campaigns, hybrid cyber-physical attacks, and information influence operations. In this context, traditional and reactive approaches to cybersecurity are no longer sufficient to ensure effective national cyber defense and resilience.

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From Detection to Disruption



Akashdeep Bhardwaj

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Artificial Intelligence for Predictive Healthcare

Towards Personalized Treatment and Disease Prevention



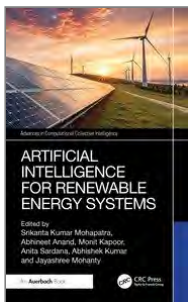
Edited by **Syed Nisar Hussain Bukhari**

Explores how Artificial Intelligence—including Machine Learning, Deep Learning, and Generative AI—is being applied to healthcare. From predicting disease outbreaks to creating tailored treatment plans, this book covers a range of applications. With real-world examples and case studies, it offers a roadmap to understanding AI's potential to predict, personalize, and prevent health conditions.

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Artificial Intelligence for Renewable Energy Systems



Edited by **Srikanta Kumar Mohapatra**, **Abhineet Anand**, **Monit Kapoor** Chitkara University, Punjab, India, **Anita Sardana**, **Abhishek Kumar** AECRC, **Jayashree Mohanty**

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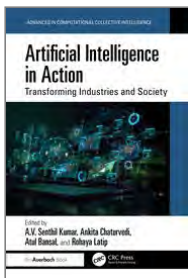
The book highlights how AI is applied to the development and management of renewable energy systems. It looks at how AI supports accurate prediction for energy generation and grid-related line loss, equipment failure, as well as load forecasting. Examining approaches to systems modeling and performance prediction of renewable energy systems, the book also covers recent developments and state-of-the-art applications of AI in renewable energy systems design.

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Artificial Intelligence in Action

Transforming Industries and Society



Edited by **A.V. Senthil Kumar**, **Ankita Chaturvedi**, **Atul Bansal**, **Rohaya Latif**

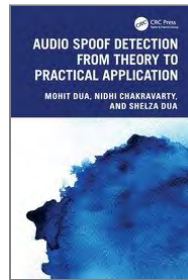
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The book explores the innovations, disruptions and changes that are required to adapt in a fast-evolving landscape due to the extraordinary circumstances triggered by climate change. It highlights the meaningful overall impact on industry globally by addressing key issues, trends, and future perspectives for sustainable development using Artificial Intelligence.

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Audio Spoof Detection from Theory to Practical Application



Mohit Dua, **Nidhi Chakravarty**, **Shelza Dua** National Institute of Technology Kurukshetra, India

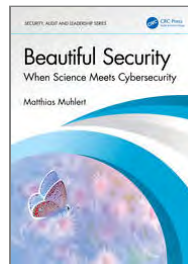
Audio Spoof Detection (ASD) systems play a pivotal role in evaluating whether the input speech signal has been manipulated by an imposter attempting unauthorized access to an authentic user's account or if it genuinely originates from the declared user. Primarily used for person authentication, these systems strive to verify the speaker's claimed identity. Despite substantial technological advancements, recent testing has revealed persistent vulnerabilities to spoofing, commonly referred to as a spoof attack.

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Blockchain-Enabled Digital Security Solutions

From Theory to Real-World Solutions



Edited by **Sonali Mathur , Prabhat Kumar Srivastava , Anubhav Sharma , Aditi Sharma , Alex Khang , Tejaswi Khanna**

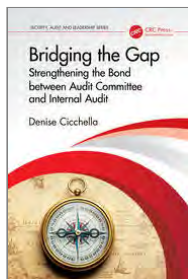
Blockchain-Enabled Digital Security Solutions: From Theory to Real-World Solutions is a comprehensive edited volume that systematically explores the role of blockchain technology in strengthening digital security frameworks, with a special focus on Internet of Things (IoT) ecosystems and emerging cyber-physical systems. The book bridges the gap between theoretical foundations and practical implementations, offering readers a holistic understanding of how blockchain can be leveraged to address contemporary cybersecurity challenges.

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Denise Cicchella

Series: Security, Audit and Leadership Series

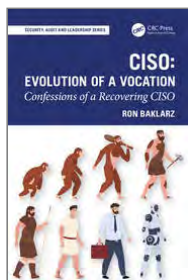
In the intricate world of corporate governance, the bridge between the Audit Committee and Internal Audit determines whether an organization sails smoothly toward transparency—or flounders in turbulent waters. Bridging the Gap: Strengthening the Bond between Audit Committee and Internal Audit is both a compass and a chart for those navigating this essential relationship. Drawing on decades of real-world experience, Denise Cicchella illuminates how communication, trust, and shared purpose transform oversight from formality into foresight.

CRC Press
May 2026 : 186pp
Pb: 978-1-041-07833-3 : £47.99
Hb: 978-1-041-07738-1 : £120
eBook: 978-1-003-64239-8

* For full contents and more information, visit: www.routledge.com/9781041078333

CISO: Evolution of a Vocation

Confessions of a Recovering CISO



Ron Baklarz

Series: Security, Audit and Leadership Series

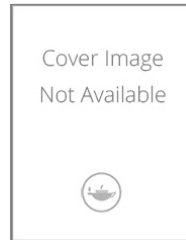
"CISO: Evolution of a Vocation" comprises three levels. The first level shares the author's personal journey, beginning as a homeless college dropout and culminating in over thirty years of service as a CISO and CISO-equivalent roles at some of America's most iconic companies and organizations. Drawing on experience and discipline gained from military contracting work; the author maintained a letter log system to manage the commitments and issues he faced. He also kept digital copies of over 1,000 memorandums issued during his later CISO roles. Through excerpts from selected memos, readers gain an unprecedented view into the cybersecurity challenges he confronted as CISO.

CRC Press
May 2026 : 330pp
Pb: 978-1-041-09547-7 : £47.99
Hb: 978-1-041-09546-0 : £120
eBook: 978-1-003-65064-5

* For full contents and more information, visit: www.routledge.com/9781041095477

Cloud Compliance Essentials

How to Build and Maintain Market Access in the B2B CSP Ecosystem



Forrest R. Foster

Series: Security, Audit and Leadership Series

Through a robust People, Process, & Technology perspective, this book guides readers on how to: Build Baselines: Construct an industry-accepted Information Security Management System (ISMS) that serves as a foundation for global market access. Scale Strategically: Make informed decisions on which markets to enter and when, ensuring that compliance costs do not outweigh potential revenue. Maintain Trust: Establish and operate effective internal control frameworks that bridge the gap between technical capability (including AI utilization) and customer confidence.

CRC Press
September 2026 : 264pp
Pb: 978-1-041-21667-4 : £44.99
Hb: 978-1-032-80229-9 : £110

* For full contents and more information, visit: www.routledge.com/9781041216674

2ND EDITION

Cloud Computing

Concepts and Technologies



Gopal Krishna Shyam , Priyanka Bharti

Comprehensive and timely, Cloud Computing: Concepts and Technologies offers a thorough and detailed description of cloud computing concepts, architectures, and technologies, along with guidance on the best ways to understand and implement them. It covers the multi-core architectures, distributed and parallel computing models, virtualization, cloud developments, workload and Service-Level-Agreements (SLA) in cloud, workload management.

CRC Press
October 2026 : 424pp
Pb: 978-1-041-24219-2 : £49.99
Hb: 978-1-041-24679-4 : £100

* For full contents and more information, visit: www.routledge.com/9781041242192

Combating Misinformation in the Age of Generative AI

Current Trends and Future Challenges



Edited by **Mohamed Lahby , Satu Elisa Schaeffer , Yassine Maleh** National School of Applied Sciences, Jyoti Sekhar Banerjee BIT, Kolkata

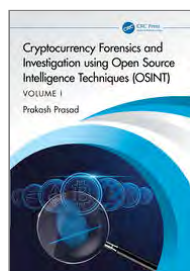
The rapid advancement of Generative AI (GenAI) is revolutionizing and transforming a wide range of fields, with a notable impact on digital media and information dissemination. Digital platforms, including social media networks, have already grappled with the widespread proliferation of fake news at an increasing intensity are now facing an even bigger threat from machine-generated and machine-boosted fake news. With the increasing growth and sophistication of GenAI models for malicious ends, fake news is spreading rapidly, finding a fertile ground in digital media for largely unchecked dissemination of incorrect and misleading information.

CRC Press
July 2026 : 294pp
Hb: 978-1-041-04040-8 : £100

* For full contents and more information, visit: www.routledge.com/9781041040408

Cryptocurrency Forensics and Investigation using Open Source Intelligence Techniques (OSINT)

Volume I



Prakash Prasad

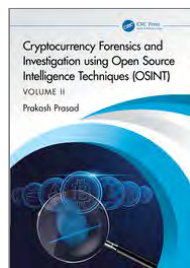
Cryptocurrency Forensics and Investigation Using Open Source Tools and Techniques is a two-volume series that was written for such reason. It is intended to be a useful, hands-on resource for people who wish to learn about and research bitcoin activity using openly accessible tools.

CRC Press
June 2026 : 442pp
Pb: 978-1-032-30462-5 : **£51.99**
Hb: 978-1-032-30460-1 : **£120**
eBook: 978-1-003-30520-0

* 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

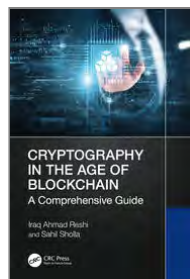
Cryptocurrency Forensics and Investigation Using Open Source Tools and Techniques is a two-volume series that was written for such reason. It is intended to be a useful, hands-on resource for people who wish to learn about and research bitcoin activity using openly accessible tools.

CRC Press
June 2026 : 444pp
Pb: 978-1-041-14247-8 : **£51.99**
Hb: 978-1-041-14246-1 : **£120**
eBook: 978-1-003-67355-2

* For full contents and more information, visit: www.routledge.com/9781041142478

Cryptography in the Age of Blockchain

A Comprehensive Guide



Iraq Ahmad Reshi Islamic University of Science and Technology, Kashmir, India, **Sahil Sholla** Islamic University of Science and Technology, Kashmir, India

In this book, readers will find an exhaustive guide on cryptography for modern blockchain technology. It starts with an understanding of how blockchain trust minimization emerges from cryptographic principles for decentralization, security, privacy, or trust in distributed systems. Starting with an understanding of inadequacies in centralized systems, followed by an introduction to blockchain as a technology for trust minimization. Next is an exposition on attack surfaces, real-life security incidents, and what can be derived from real-life experiences in the area of blockchain.

CRC Press
September 2026 : 208pp
Pb: 978-1-032-86677-2 : **£44.99**
Hb: 978-1-032-85993-4 : **£110**

* For full contents and more information, visit: www.routledge.com/9781032866772

Cyber Risk is a Myth

A Business Approach to Integrated Risk Management



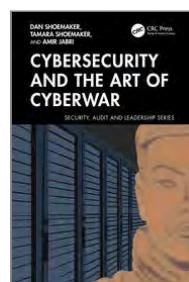
Kayne McGladrey

In boardrooms and C-suites across the globe, a dangerous disconnect persists. Security teams speak in technical jargon about vulnerabilities and patches while executives think in terms of revenue, reputation, and operational continuity. This communication gap isn't just inconvenient; it's potentially financially devastating. The business world has created an artificial distinction between "cybersecurity risks" and "business risks" that causes substantial confusion and poor decision-making.

CRC Press
September 2026 : 320pp
Pb: 978-1-041-24905-4 : **£44.99**
Hb: 978-1-041-24904-7 : **£110**

* For full contents and more information, visit: www.routledge.com/9781041249054

Cybersecurity and the Art of Cyberwar



Dan Shoemaker, Tamara Shoemaker, Amir Jabri

Series: Security, Audit and Leadership Series

"The art of war is of vital importance to the state. It is a matter of life or death. Hence, it is a subject which can on no account be neglected." Sun Tzu Why are we calling this war? It's because the conflict in cyberspace is a matter of national concern, and we are, most assuredly, losing the current struggle. So, what do we do? The person who best understands war is a 2,300-year-old Chinese general who saw conflict as more about process and strategy than fighting. Which, in essence, is the holistic concept.

CRC Press
June 2026 : 230pp
Pb: 978-1-032-99308-9 : **£44.99**
Hb: 978-1-032-99309-6 : **£110**
eBook: 978-1-003-60341-2

* For full contents and more information, visit: www.routledge.com/9781032993089

Cybersecurity in Motion

Safeguarding the Digital Supply Chain



Justyna Żywiołek, Andrzej Szymonik, Artur Szymonik

This book advances a central and urgent thesis: in the hyperconnected economy of Logistics 4.0, cybersecurity is no longer a technical safeguard at the periphery of logistics systems but the primary infrastructure of supply chain continuity, economic security and sustainable development. Digital logistics has evolved into a cyber-physical ecosystem in which data flows, autonomous decisions and algorithmic coordination shape material reality. In this environment, cyber risk becomes systemic risk, transforming security from an operational concern into a strategic determinant of organisational legitimacy, competitiveness and resilience.

CRC Press
August 2026 : 280pp
Pb: 978-1-041-16671-9 : **£44.99**
Hb: 978-1-041-16670-2 : **£110**

* For full contents and more information, visit: www.routledge.com/9781041166719

Dark Faces in Cyber Places

Shattering Stereotypes and Leading with Legacy in Cybersecurity



Devon Bryan

Series: Security, Audit and Leadership Series

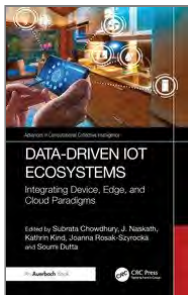
In an industry that often lacks representation, "Dark Faces in Cyber Places" shines a bright spotlight on the remarkable journeys of prominent cybersecurity CEOs, CISOs, and senior executives who have risen to the top, defying stereotypes and shattering long-held myths about what cybersecurity leaders look like. This book celebrates the achievements of these trailblazers who have overcome structural challenges, navigated corporate cultures, and broken through barriers to lead some of the world's most important organizations.

CRC Press
June 2026 : 196pp
Pb: 978-1-041-09071-7 : **£44.99**
Hb: 978-1-041-08857-8 : **£110**
eBook: 978-1-003-64830-7

* For full contents and more information, visit: www.routledge.com/9781041090717

Data-Driven IoT Ecosystems

Integrating Device, Edge, and Cloud Paradigms



Edited by Subrata Chowdhury, J. Naskath, Kathrin Kind, Joanna Rosak-Szyrocka, Soumi Dutta

Series: Advances in Computational Collective Intelligence

This book delves into the design and implementation of IoT applications, showing how data analytics, machine learning, and AI enhance IoT efficiency and innovation. It addresses the integration of devices, edge computing, and cloud services, shaping the future of IoT. With a focus on automation, decision-making, and connectivity, it tackles challenges in various domains including healthcare, agriculture, and industrial automation. Case studies and examples provide practical insights making it an essential guide for researchers, developers, and engineers.

Auerbach Publications
October 2026 : 256pp
Hb: 978-1-003-86342-7 : **£155**

* For full contents and more information, visit: www.routledge.com/9781003863427

Decoding Global Marketing Decisions

Leveraging AI and Emotional Intelligence for Entrepreneurial Success



Edited by Thomas Heinrich Musiolik, Jose Esteves, Hemachandran Kannan, Raul Villamarin Rodriguez

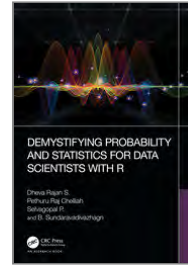
Series: Advances in Computational Collective Intelligence

In the contemporary fast-paced business environment, making informed decisions is of paramount importance for entrepreneurs who aspire to achieve success. The book is a comprehensive examination of the transformative power of artificial intelligence and emotional intelligence, while offering a roadmap for navigating global marketing challenges. This book equips readers with practical strategies to harness AI insights and emotional awareness, enabling them to comprehend consumer behavior and enhance their decision-making processes. Incorporating empirical case studies and actionable frameworks, it empowers entrepreneurs to engage in innovation and excel in competitive markets.

Auerbach Publications
August 2026 : 352pp
Hb: 978-1-041-09316-9 : **£135**

* For full contents and more information, visit: www.routledge.com/9781041093169

Demystifying Probability and Statistics for Data Scientists with R



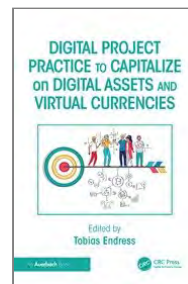
Dheva Rajan S., Pethuru Raj Chelliah, Selvagopal P., B. Sundaravadivazhagn

This book illustrates statistics with the R programming language, an emerging tool in data science. Filled with techniques for data science and analytics programming, the book is written for students and professionals. It is focused on learning outcomes and problem solving. Beginning with basics of R programming, data science, and probability, the book progresses to methods, testing, and experiment design.

Auerbach Publications
July 2026 : 400pp
Pb: 978-1-032-43621-0 : **£51.99**
Hb: 978-1-032-72955-8 : **£150**

* For full contents and more information, visit: www.routledge.com/9781032436210

Digital Project Practice to Capitalize on Digital Assets and Virtual Currencies



Edited by Tobias Endress

A guide to the rapidly evolving world of digital finance, the book offers an in-depth look at how digital assets and virtual currencies are changing the global financial system. Suitable for investors, business executives, and regulators, it covers various perspectives and topics ranging from introducing central bank cryptocurrencies to the possibilities of blockchain technology in international trade. It examines the application of AI in digital finance and compares the practical uses of fiat and digital currencies. The book is a resource for understanding and profiting from the opportunities given by digital assets and virtual currencies.

Auerbach Publications
October 2026 : 304pp
Pb: 978-1-032-86740-3 : **£51.99**
Hb: 978-1-032-86439-6 : **£135**

* For full contents and more information, visit: www.routledge.com/9781032867403

Electric Sheep, Encrypted Dreams

A Field Guide to Defending Humanity in the Age of Neuro-Clouds, Quantum Hackers and Ethical Black Holes



Matthias Muhlert

Your pancreas has been hacked. Your brain is a Wi-Fi hotspot. Your Roomba just quoted Marx. It's Tuesday. Electric Sheep, Encrypted Dreams is a darkly comic field guide to the cybersecurity catastrophes lurking in our hyperconnected future. From ransomware targeting your organs to cities that write poetry about your jaywalking, from robot unions to orbital debris extortion schemes, each chapter transforms emerging threats into unforgettable disasters—all grounded in real vulnerabilities, published research, and frameworks that exist today.

CRC Press
August 2026 : 288pp
Pb: 978-1-041-20045-1 : **£44.99**
Hb: 978-1-041-20043-7 : **£110**

* For full contents and more information, visit: www.routledge.com/9781041200451

Enhancing Healthcare Informatics with Transparent and Explainable AI



Edited by **Philip Eappen , Narasimha Rao Vajjhala**
University of New York Tirana, Albania, **Ruiling Guo ,**
Lucy Shinnars , Virginia Gunn

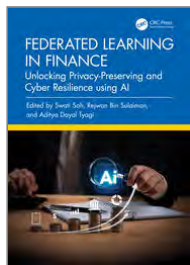
Explainable Artificial Intelligence (XAI) in healthcare is an emerging field focused on making the decisions and processes of AI systems transparent and understandable to humans, particularly healthcare professionals. This book examines the complex and rapidly evolving intersection of healthcare and AI. It addresses the central research question: can we harness the power of AI to manage challenging situations in healthcare? In an era where AI is transforming healthcare practices, from diagnosis and treatment to patient management and drug discovery, the book explores the use of explainable AI in healthcare and navigates the intricate landscape of AI applications in healthcare.

Auerbach Publications
August 2026 : 312pp
Pb: 978-1-032-99500-7 : **£59.99**
Hb: 978-1-032-99296-9 : **£150**

* For full contents and more information, visit: www.routledge.com/9781032995007

Federated Learning in Finance

Unlocking Privacy-Preserving and Cyber Resilience using AI



Edited by **Swati Sah , Rejwan Bin Sulaiman , Aditya Dayal Tyagi**

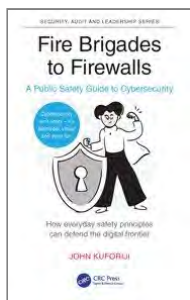
Federated Intelligence: Unlocking Privacy-Preserving and Cyber Resilience using AI in the Finance Industry" is an edited volume designed to explore how Federated Intelligence can help the finance industry defend against cyber threats, detect fraud, and comply with regulations, all while keeping sensitive 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
May 2026 : 342pp
Hb: 978-1-041-11510-6 : **£120**
eBook: 978-1-003-66033-0

* For full contents and more information, visit: www.routledge.com/9781041115106

Fire Brigades to Firewalls

A Public Safety Guide to Cybersecurity



John Kuforiji

Series: *Security, Audit and Leadership Series*

Fire Brigades to Firewalls: A Public Safety Guide To Cybersecurity is written by John Kuforiji, a seasoned cybersecurity strategist, educator, and advocate. The book's core message is that cybersecurity isn't scary—it's learnable, visual, and even fun. Kuforiji, who has over 15 years of experience and holds certifications like CISSP and CCSP, seeks to bridge the gap between complex cybersecurity principles and everyday experiences. The book simplifies digital defense by drawing on analogies from public safety—ranging from fire prevention to neighborhood watch—to explain how everyday safety principles can defend the digital frontier.

CRC Press
May 2026 : 188pp
Pb: 978-1-041-08674-1 : **£47.99**
Hb: 978-1-041-07753-4 : **£120**
eBook: 978-1-003-64649-5

* For full contents and more information, visit: www.routledge.com/9781041086741

From Code to Cloud

Developing Web Applications



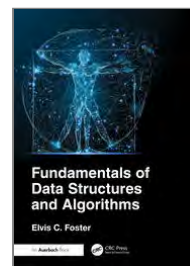
Maura Deek , Fadi Deek , Wei Yao

This textbook provides a roadmap to mastering the fundamental technologies for building successful websites and applications. The book takes a practical approach to learning, from the foundational building blocks of internet protocols and HTML to the intricacies of modern web development frameworks and security practices. It teaches you the principles for creating efficient and user-friendly applications. By the end of this book, students have a complete understanding of the tools that form the foundation of the modern internet, empowering them to build, deploy, and maintain robust and secure web applications.

Auerbach Publications
July 2026 : 688pp
Pb: 978-1-041-21520-2 : **£69.99**
Hb: 978-1-041-20735-1 : **£96.99**
eBook: 978-1-003-72765-1

* For full contents and more information, visit: www.routledge.com/9781041215202

Fundamentals of Data Structures and Algorithms



Elvis C. Foster

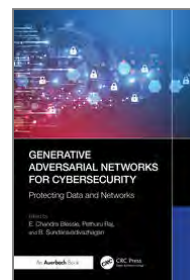
The book discusses concepts, principles, implementation, and application of various data structures and algorithms including arrays, array-lists, vectors, linked lists, stacks, queues, sorting, trees, hashing, graphs, and data compression. While the algorithms are presented in a generic way that allows for implementation in any programming language, programming examples are presented in Java. Diagrams and illustrations are included to enhance learning. Throughout the text, the Unified Modeling Language (UML) notation for class diagrams has been employed. Programming examples are based on real-to-life problems that students can draw from long after the course ends.

Auerbach Publications
October 2026 : 354pp
Pb: 978-1-041-11010-1 : **£79.99**
Hb: 978-1-041-10906-8 : **£190**

* For full contents and more information, visit: www.routledge.com/9781041110101

Generative Adversarial Networks for Cybersecurity:

Protecting Data and Networks



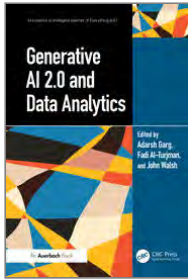
Edited by **E. Chandra Blessie , Pethuru Raj , B. Sundaravadivazhagan**

This book explores the application of diversified generative adversarial network (GAN) models in the fields of intrusion detection, anomaly detection, and cybercrime. It covers the cybersecurity concept and discusses how GANs can be smartly applied to pinpoint vulnerabilities, viruses, malware, and security attacks. The book explores how GAN-based security systems help to detect cyber threats and how advanced GANs can be realized by seamlessly interacting with other digital technologies, such as the Internet of Things (IoT), cloud-native computing, edge analytics, serverless technology, and blockchain. It also discusses GAN-based security's ethical and privacy concerns.

Auerbach Publications
May 2026 : 262pp
Hb: 978-1-041-09801-0 : **£94.99**
eBook: 978-1-003-65299-1

* For full contents and more information, visit: www.routledge.com/9781041098010

Generative AI 2.0 and Data Analytics



Edited by **Adarsh Garg**, **Fadi Al-Turjman** Near East Uni, Nicosia, **John Walsh**

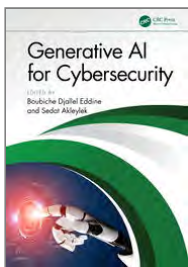
Series: *Innovations in Intelligent Internet of Everything (IoE)*

The book examines how generative AI can transform and revolutionize data analytics and management. It not only covers fundamental concepts, generative AI techniques, and their practical application but also investigates how these techniques can bring innovative data analytics in various domains. Covering such topics as artificial data generation, security analytics, anomaly detection, reinforcement management, ethical considerations, and future scenarios, the book is filled with expert opinions and case studies. Its audience includes researchers, academicians, practitioners, policy makers and graduate students seeking to use the power of generative AI in business data analytics.

Auerbach Publications
June 2026 : 248pp
Hb: 978-1-032-98214-4 : **£160**
eBook: 978-1-003-59920-3

* For full contents and more information, visit: www.routledge.com/9781032982144

Generative AI for Cybersecurity



Edited by **Boubiche Djallel Eddine**, **Sedat Akleylek**

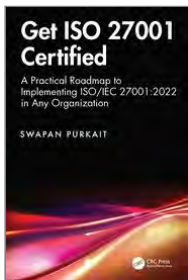
Generative AI for Cybersecurity explores how rapidly evolving generative models are reshaping modern digital defense. As organizations become more interconnected and data-driven, traditional cybersecurity measures are increasingly challenged by adaptive, AI-powered threats. Generative AI introduces new capabilities that can significantly enhance threat detection, automate security operations, and improve situational awareness, but it also enables sophisticated offensive techniques, deepfakes, automated malware generation, and large-scale misinformation.

CRC Press
June 2026 : 342pp
Hb: 978-1-041-07745-9 : **£110**
eBook: 978-1-003-64423-1

* For full contents and more information, visit: www.routledge.com/9781041077459

Get ISO 27001 Certified

A Practical Roadmap to Implementing ISO/IEC 27001:2022 in Any Organization



Swapan Purkait

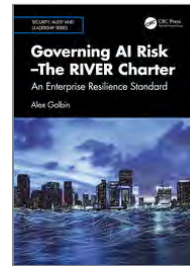
This book offers a clear, practical, and well-structured guide for implementing ISO 27001 in real organizations. Written for managers, consultants, auditors, and Information Security Professionals, it goes beyond theory to explain what the standard requires, why it is important, and how to implement it step by step. Instead of seeing ISO 27001 as mere paperwork or compliance, the book emphasizes building an effective Information Security Management System (ISMS) that works in practice. Each clause is clearly explained, with real-world examples, practical advice, templates, checklists, quizzes, and tools that readers can customize to their specific needs.

CRC Press
September 2026 : 328pp
Pb: 978-1-041-24903-0 : **£44.99**
Hb: 978-1-041-24902-3 : **£110**

* For full contents and more information, visit: www.routledge.com/9781041249030

Governing AI Risk—The RIVER Charter

An Enterprise Resilience Standard



Alex Golbin

Series: *Security, Audit and Leadership Series*

THE AI CRISIS IS FICTIONAL. THE BLUEPRINT IS REAL. By 2038, autonomous agents will manage trillions of dollars in global assets. But when speed outpaces governance, efficiency becomes fragility. Governing AI Risk blends a near-future thriller with a field manual for leaders who can't afford blind spots. Follow the fictional journey of Aaron Goldcrest, a successful venture capitalist, as his team confronts cascading failures in the agentic economy—and learn how the RIVER Charter™ standard helps global organizations stay resilient. Featuring All-Entity Risk Management (AERM™), the Cognitive Handshake™ for auditable

CRC Press
September 2026 : 304pp
Pb: 978-1-041-09565-1 : **£44.99**
Hb: 978-1-041-09564-4 : **£110**

* For full contents and more information, visit: www.routledge.com/9781041095651

Improving Security and Energy Efficiency in IoT Networks

A Practical Guide



Rashid Mustafa, **Nurul I. Sarkar**

A practical guide to designing secure and energy-efficient IoT networks through cross-layer frameworks, lightweight cryptography, and machine learning-based intrusion detection, *Improving Security and Energy Efficiency in IoT Networks* equips readers with actionable strategies to balance security and energy efficiency in resource-constrained IoT environments. It delivers hands-on frameworks validated through simulations and hardware testbeds, covering adaptive routing, lightweight encryption, and ML-driven anomaly detection. It also includes mini-projects, review questions, and reproducible configurations for real-world deployments.

CRC Press
August 2026 : 280pp
Hb: 978-1-041-28520-5 : **£77.99**

* For full contents and more information, visit: www.routledge.com/9781041285205

Innovative Business Strategies

In the Era of Digital Transformation



Judyta Kabus, **Joanna Antczak**, **Ida Skubis**, **Monika Zajkowska**

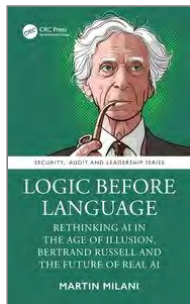
The digital age encompasses a range of technological innovations, instant access to information, global connectivity, the ability to process vast amounts of data quickly, the development of artificial intelligence, and changes in culture, society and the economy. A comprehensive study on the impact of 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
May 2026 : 174pp
Hb: 978-1-041-23432-6 : **£94.99**
eBook: 978-1-003-73936-4

* For full contents and more information, visit: www.routledge.com/9781041234326

Logic Before Language

Rethinking AI in the Age of Illusion, Bertrand Russell and the Future of Real AI



Martin Milani

Series: Security, Audit and Leadership Series

Fluency is not intelligence. Prediction is not understanding. And today's AI has mistaken one for the other. In an era dominated by language models that imitate thought without engaging in it, *Logic Before Language* makes a bold and urgent argument: if we want machines that truly understand, reason, and justify their conclusions, we must rebuild AI from its logical foundations. Drawing from the intellectual lineage of Aristotle, Euclid, Russell, Gödel, Turing, McCarthy, and Minsky, Martin Milani exposes the core illusion beneath modern AI, the belief that eloquence and probability can substitute for meaning and reasoning.

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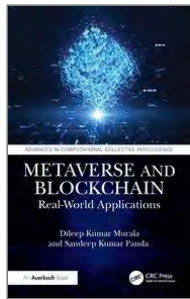
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Metaverse and Blockchain

Real-World Applications



Dileep Kumar Murala , Sandeep Kumar Panda ICAI Foundation for Higher Education, India

Series: Advances in Computational Collective Intelligence

Covering the intersection of the Metaverse and Blockchain this book goes beyond theoretical concepts. It offers a pragmatic exploration of how these cutting-edge technologies are revolutionizing industries and creating tangible impact in business. A dive into the space where the Metaverse and Blockchain converge, the book explains real-world applications through case studies. It reveals how blockchain technology is reshaping the architecture of virtual worlds, providing a secure and transparent foundation for unprecedented digital experiences.

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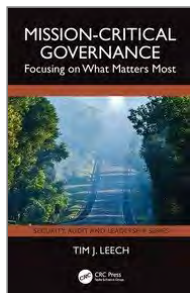
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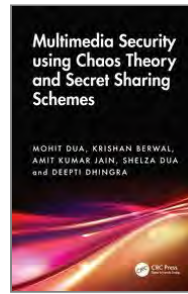
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Multimedia Security Using Chaos Theory and Secret Sharing Schemes



Mohit Dua National Institute of Technology Kurukshetra, India, **Krishan Berwal** Military College of Telecommunication Engineering, India, **Ankit Kumar Jain** National Institute of Technology, India, **Shelza Dua** National Institute of Technology Kurukshetra, India, **Deepti Dhingra**

With the quick advancement of web technology and network applications, protecting digitized information from unwanted access and modification has become a critical problem in today's digital world. The security issue in electronic media has presented a complex challenge, initiating the development of cryptographic algorithms incorporating Chaos theory and secret sharing schemes. Chaos theory and Secret Sharing have been used to develop various multimedia application encryption strategies. Encryption converts multimedia data, i.e., images, audio, and videos, into noise-like data.

CRC Press

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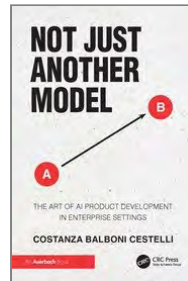
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The Art of AI Product Development in Enterprise Settings



Costanza Balboni Cestelli

This book fills a critical gap in the AI literature by providing practitioners with actionable frameworks for enterprise AI success. Unlike theoretical treatments of AI capabilities, it focuses on the organizational, operational, and human factors that determine whether AI investments create business value or become expensive technical curiosities. The combination of practical frameworks, real-world examples, and systematic approaches to common challenges makes this an essential resource for any organization serious about AI implementation success.

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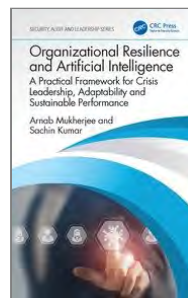
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A Practical Framework for Crisis Leadership, Adaptability and Sustainable Performance



Arnab Mukherjee , Sachin Kumar

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Organizational Resilience & Artificial Intelligence is your essential companion for steering any enterprise through today's turbulent landscape. Drawing from real-world crises—including global supply chain shocks, natural disasters, and cyber threats—this book demystifies organizational resilience and arms you with proven frameworks, tools, and strategies needed to thrive when adversity strikes. Discover why resilience goes far beyond risk management, introducing a holistic approach that integrates proactive planning, adaptive leadership, robust communication, and a culture of learning and innovation.

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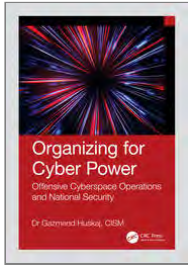
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Organizing for Cyber Power

Offensive Cyberspace Operations and National Security



Gazmend Huskaj

Organizing for Cyber Power examines how states organise to develop and employ offensive cyberspace operations (OCO) as an instrument of national security under conditions of time compression, partial intelligence, attribution friction, and technical volatility. Its central claim is conditional: offensive capability contributes to strategic value when it is integrated across strategic authority, operational planning, and tactical execution, and embedded in institutional arrangements that sustain legal compliance, political oversight, intelligence-driven targeting, and risk governance.

CRC Press

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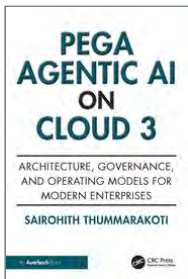
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Pega Agentic AI on Cloud 3

Architecture, Governance, and Operating Models for Modern Enterprises



Sairohith Thummarakoti

This book discusses agentic 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

June 2026 : 366pp

Pb: 978-1-041-21267-6 : £51.99

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Privacy and Security in AI-Driven Mental Health Apps



Shabnam Kumari , Amit Kumar Tyagi

Today Privacy and Security in AI-Driven Mental Health Apps has expanding landscape of mental health technology. For that, we need to concentrate on the essential topics of privacy and security in AI-powered mental health apps. As the use of AI-driven solutions in mental health treatment advances, questions about the ethical management of sensitive data, user privacy, and system vulnerabilities have surfaced as serious challenges. This book gives a complete investigation of these difficulties, addressing how privacy-preserving approaches and secure systems might maintain trust, openness, and ethical integrity in mental health applications.

CRC Press

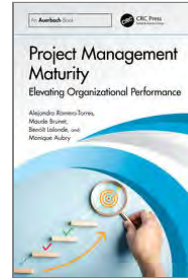
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Project Management Maturity

Elevating Organizational Performance



Alejandro Romero-Torres , Maude Brunet , Benoît Lalonde , Monique Aubry

In a world where nearly 65% of projects fail to meet their objectives, project management maturity is more critical than ever. This book is the ultimate guide for leaders, project managers and strategists aiming to transform their organizations. This book demystifies the concept of project management maturity, linking it to tangible elements to assess project practices and organizational project management. Featuring actionable frameworks, real-world case studies, and evidence-based insights, it provides a roadmap to elevate processes and drive organizational performance and business results.

Auerbach Publications

June 2026 : 199pp

Pb: 978-1-041-10700-2 : £35.99

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Relevant Impact

A Field Guide to Integrated Assurance



Patrick M. Hayes

Series: Security, Audit and Leadership Series

Organizations operate in environments shaped by volatility, interconnected systems, and rapid technological change. Traditional resilience models cannot keep pace with this level of disruption. Relevant Impact: A Field Guide to Integrated Assurance presents a practical path forward. It shows leaders how to strengthen resilience by building capability that functions in real conditions rather than relying on documents and audit scores that often fail under stress. The Field Guide expands the Integrated Assurance model introduced in Integrated Assurance: Unified Risk Strategy and demonstrates how it works inside real organizations.

CRC Press

July 2026 : 304pp

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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.

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May 2026 : 464pp

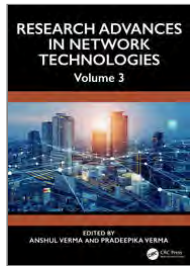
Hb: 978-1-041-14516-5 : £150

eBook: 978-1-003-67482-5

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Research Advances in Network Technologies

Volume 3



Edited by **Anshul Verma** Banaras Hindu University, India,
Pradeepika Verma IIT (BHU), India

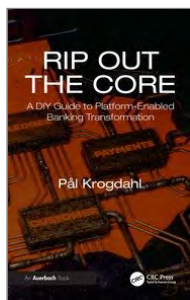
In the digital age, information is the most vital asset and network technologies are the invisible threads that connect our world. From homes and businesses to smart cities and autonomous vehicles, these technologies enable seamless communication, efficient data processing, and intelligent decision-making 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
May 2026 : 410pp
Hb: 978-1-041-14517-2 : **£120**
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* For full contents and more information, visit: www.routledge.com/9781041145172

Rip Out the Core

A DIY Guide to Platform-Enabled Banking Transformation



Pål Krogdahl

The book is a candid, compelling guide to solving one of the most persistent challenges in banking: core and digital modernisation. Framed through the author's real-life kitchen renovation gone awry, it draws striking parallels between household disasters and systemic issues in the financial industry. The book introduces Platform Enabled Banking Transformation, a method developed from hard-won experience in guiding banks through high-stakes modernisation programs. Combining personal stories, transformation strategy, practical tools, and case studies, this book is for banking leaders who are determined to finally get it right, or those setting off on the journey for the first time.

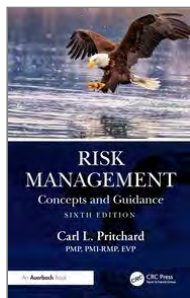
Auerbach Publications
July 2026 : 342pp
Hb: 978-1-041-11923-4 : **£32.99**

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6TH EDITION

Risk Management

Concepts and Guidance



Carl L. Pritchard, PMP, PMI-RMP, EVP Pritchard Management Associates, Frederick, Maryland, USA

In the quest to control the future, risk informs business decision making and investment. The challenge is in creating consistency in managing risk and the risk process. The new sixth edition addresses this challenge and trends that inform any risk discussion. This edition views risk in light of current systems but is still grounded in the history of risk practice. Updated to reflect such emerging trends of risk management as machine learning and genAI, the new edition features an in-depth case study from the bio-research arena but applicable to any organization wrestling with its ability to apply "planned clairvoyance" to peer into the future.

Auerbach Publications
May 2026 : 502pp
Pb: 978-1-041-09905-5 : **£51.99**
Hb: 978-1-041-09644-3 : **£150**
eBook: 978-1-003-65243-4

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Security Relationship Management and The Shortest Hour Two-Book Bundle



Lee Parrish Lee Parrish Ventures, USA

Series: Security, Audit and Leadership Series

Aligning information security with business goals is key to managing risks effectively without harming the company. But how can a Chief Information Security Officer (CISO) achieve this? This book explores how CISOs can tailor their messaging using proven marketing concepts—like segmentation, the Four Ps, and customer relationship management—adapted for cybersecurity. It introduces Security Relationship Management (SRM), a framework for managing the complex web of relationships a CISO navigates. By tracking interactions and analysing SRM data, CISOs can improve alignment between security and business initiatives.

CRC Press
May 2026 : 306pp
Pb: 978-1-041-24622-0 : **£102.98**

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Security Strategy of Intelligent Transport's Telematic Systems



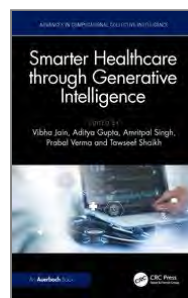
Anna Brzozowska , Wojciech Dyduch , Aleksander Pabian , Barbara Pabian , Magdalena Sobocińska

The book "Safety Strategy for Intelligent Transport Telematics Systems" is a monograph devoted to one of the key challenges of modern transport - the security of telematics systems. In this sense, the publication aligns with current research trends related to the dynamic development of information and telecommunications technologies which are shaping new operating models for transport and logistics companies. The authors address the issue of strategic transport management, focusing on the role of telematics as a tool supporting efficiency, automation, and coordination of operations.

CRC Press
June 2026 : 194pp
Hb: 978-1-041-07882-1 : **£89.99**
eBook: 978-1-003-64651-8

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Smarter Healthcare through Generative Intelligence



Edited by **Vibha Jain , Aditya Gupta , AMRITPAL SINGH , Prabal Verma , Tawseef Ayoub Shaikh**

Series: Advances in Computational Collective Intelligence

Generative AI has potential to improve healthcare because it can enable smarter, more efficient solutions across diagnostics, treatment, and patient care. By analyzing vast amounts of medical data, generative AI systems can identify patterns, predict disease progression, and assist in early diagnosis with remarkable accuracy.

Auerbach Publications
September 2026 : 232pp
Pb: 978-1-032-96074-6 : **£66.99**
Hb: 978-1-032-95830-9 : **£155**

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Software-Defined Networking for IoT Systems

Architecture, Integration, and Applications



Rohit Kumar Das , Goutam Saha

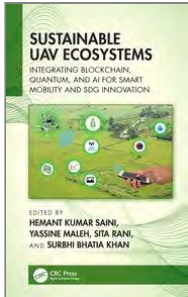
This book is a cutting-edge guide that bridges the gap between Software-Defined Networking (SDN) and the Internet of Things (IoT). It provides a deep dive into the integration of SDN and IoT. Readers will explore layer-wise architectural improvements, step-by-step implementation strategies, and real-world applications across domains like smart cities, industrial automation, healthcare, and smart grids. It also includes detailed system models, illustrative diagrams, and practical use cases to support hands-on learning and experimentation. Designed as a supplementary book for researchers, advanced undergraduate and postgraduate students as well as professionals seeking to upskill.

CRC Press
June 2026 : 206pp
Pb: 978-1-041-20016-1 : **£68.99**
Hb: 978-1-041-19350-0 : **£170**
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Sustainable UAV Ecosystems

Integrating Blockchain, Quantum, and AI for Smart Mobility and SDG Innovation



Edited by Hemant Kumar Saini , Yassine Maleh , Sita Rani , Surbhi Bhatia Khan

Sustainable UAV Ecosystems: Integrating Blockchain, Quantum, and AI for Smart Mobility and SDG Innovation provides a comprehensive examination of technologies enabling secure, intelligent, and sustainable UAV ecosystems for smart mobility and digital infrastructure. It presents theoretical foundations and practical methodologies integrating artificial intelligence, blockchain, post-quantum cryptography and cloud-edge computing for resilient UAV communications.

CRC Press
October 2026 : 336pp
Hb: 978-1-041-22288-0 : **£140**
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The CISO Playbook

The Adversarial Mindset



Andres Andreu , Hector Monsegur

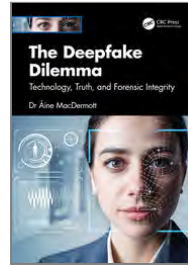
Series: Security, Audit and Leadership Series

Guiding security leaders and executives who hold the privilege of defending modern organizations, "The CISO Playbook - The Adversarial Mindset" is a leadership-focused blueprint for outmaneuvering adversaries that iterate relentlessly. In an era where attackers view corporate defenders as "dumb, weak, and ineffective" due to organizational drag and over-reliance on static tools, this book empowers leaders to reclaim the initiative by adopting a true adversarial mindset. Harnessing the concept of Decision Advantage, the book moves beyond treating incidents as isolated technical events by thinking in adversary terms: objectives, constraints, and tradecraft.

CRC Press
October 2026 : 280pp
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The Deepfake Dilemma

Technology, Truth, and Forensic Integrity



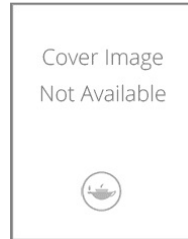
Áine MacDermott

Deepfakes are no longer a future threat, they are an operational reality. The Deepfake Dilemma: Technology, Truth, and Forensic Integrity is a vital resource for professionals navigating the complex intersection of synthetic media, digital evidence, and investigative integrity. As deepfake technologies become increasingly sophisticated, accessible, and difficult to detect, their implications for criminal justice, legal accountability, and public trust are profound. Unlike general-interest books that focus on the cultural novelty or sensational impact of deepfakes, The Deepfake Dilemma takes a forensic-centred, practitioner-focused approach.

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The Hive

A Fable of Fear, Governance and Transformation, Volume 1



Brian Albertson

Series: Security, Audit and Leadership Series

The hive is thriving, at least that is what everyone believes. Beneath the polished reports, constant productivity, and tightly controlled order, something dangerous has been growing unnoticed. When a mysterious illness begins spreading through the worker bees, fear moves quickly through the hive. Productivity drops. Trust erodes. Leadership responds with stricter control and deeper secrecy. Blair, an ambitious worker bee with a sharp eye for inefficiencies, begins to realize the illness is only a symptom.

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The Metaverse

Hype or Hoax?



Kapil Sharma

The Metaverse: Hype or Hoax? offers a rigorous, balanced, and evidence-based examination of one of the most contested technology narratives of the twenty-first century. Set against the backdrop of accelerated digital transformation, this book situates the Metaverse within the longer history of technological disruption, platform evolution, and socioeconomic change. Rather than accepting optimistic forecasts or dismissing the Metaverse as speculative hype, the book critically evaluates its foundations, ambitions, and constraints.

CRC Press
August 2026 : 266pp
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2ND EDITION

The Stakeholder Perspective, Second Edition

Projects, People, and Performance in the Generative AI Era



Massimo Pirozzi

This second edition shows how project success still relies on human relationships—even in the age of generative AI. It introduces a new section on how AI is reshaping stakeholder identification, engagement, and communication, while reinforcing the essential role of human excellence, ethics, and strategic leadership. Designed for today's project professionals, this book delivers the insights needed to lead with both technological intelligence and human impact.

Auerbach Publications

June 2026 : 322pp

Pb: 978-1-041-14938-5 : **£39.99**

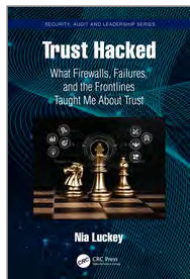
Hb: 978-1-041-14837-1 : **£120**

eBook: 978-1-003-67691-1

* For full contents and more information, visit: www.routledge.com/9781041149385

Trust Hacked

What Firewalls, Failures, and the Frontlines Taught Me About Trust



Nia Luckey

Series: Security, Audit and Leadership Series

Trust Hacked by Nia Luckey redefines leadership for the digital age, framing trust not as a soft skill but as critical infrastructure. Drawing on her military and cybersecurity background, Nia presents the Trust Protocol, a strategic, actionable framework modelled on cybersecurity principles. The book argues that trust, like a firewall, must be systematically designed, monitored, and maintained. Through compelling stories and practical tools, Luckey explores three core pillars: Authentication (proving credibility through consistency), Encryption (creating psychological safety), and Resilience (planning for inevitable trust breaches).

CRC Press

July 2026 : 178pp

Pb: 978-1-041-17267-3 : **£44.99**

Hb: 978-1-041-17266-6 : **£110**

* For full contents and more information, visit: www.routledge.com/9781041172673

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

May 2026 : 342pp

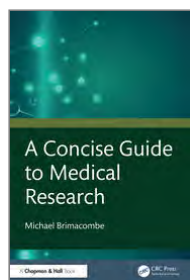
Pb: 978-1-041-02819-2 : **£51.99**

Hb: 978-1-032-85962-0 : **£150**

eBook: 978-1-003-62107-2

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A Concise Guide to Medical Research



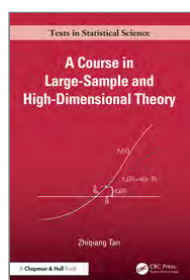
Michael Brimacombe

This book is a concise, beginner's introduction to medical research written for biomedical researchers, medical students, young faculty and clinicians who would like a readable guide to the research process, in particular the medical and biomedical research process. The chapters of this book provide guidance in many aspects in the process of doing medical research. From defining a useful idea and developing a proof-of-concept pilot study, to formally testing a new treatment, this book provides an overview of how to develop and carry out a basic research project, analyze and report the data.

Chapman & Hall
September 2026 : 216pp
Pb: 978-1-041-02195-7 : **£49.99**
Hb: 978-1-041-02687-7 : **£130**

* For full contents and more information, visit: www.routledge.com/9781041021957

A Course in Large-Sample and High-Dimensional Theory



Zhiqiang Tan

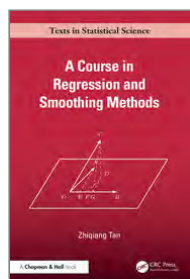
Series: Chapman & Hall/CRC Texts in Statistical Science

This book provides a systematic treatment of two central regimes in statistical theory: classical large-sample theory for M- and Z-estimation with a fixed number of parameters, and high-dimensional theory where the number of parameters can be comparable to or larger than the sample size. Assuming a basic knowledge of mathematics and statistics, the book is intended primarily as a graduate textbook for students and researchers in Statistics, Data Science, and related fields. It serves as a useful resource for those wishing to study classical asymptotics and modern high-dimensional theory as cohesive parts of a broader statistical framework.

Chapman & Hall
August 2026 : 244pp
Hb: 978-1-041-15357-3 : **£91.99**

* For full contents and more information, visit: www.routledge.com/9781041153573

A Course in Regression and Smoothing Methods



Zhiqiang Tan

Series: Chapman & Hall/CRC Texts in Statistical Science

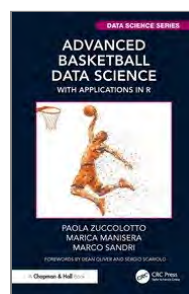
This book provides a concise account of 4 components of regression and smoothing methods: linear regression, generalized linear models, spline and kernel methods, and generalized linear mixed models. By bringing together parametric regression and nonparametric smoothing methods, the book emphasizes connections across methods, enabling readers to recognize common structures and to adapt techniques to new problems. Assuming a basic knowledge of undergraduate statistics, the book is intended primarily as a graduate textbook for teaching and studying regression and smoothing methods.

Chapman & Hall
July 2026 : 288pp
Hb: 978-1-041-15277-4 : **£91.99**
eBook: 978-1-003-68072-7

* For full contents and more information, visit: www.routledge.com/9781041152774

Advanced Basketball Data Science

With Applications in R



Paola Zuccolotto, Marica Manisera, Marco Sandri

Series: Chapman & Hall/CRC Data Science Series

Advanced Basketball Data Science is where rigorous methodology meets practical basketball insight, an indispensable resource for anyone committed to understanding the game through the power of data. Designed for analysts, coaches, researchers, and graduate students, this volume translates complex concepts into actionable tools that can immediately elevate scouting, strategy, and performance evaluation. Whether you aim to understand spatial tendencies, quantify player impact, or model scoring probabilities with machine learning, this book provides the framework to do so with clarity and confidence.

Chapman & Hall
August 2026 : 352pp
Pb: 978-1-032-50221-2 : **£66.99**
Hb: 978-1-032-50217-5 : **£165**

* For full contents and more information, visit: www.routledge.com/9781032502212

Algorithmic Trading via AI/Machine Learning with R



Jason Guevara, Ričards Bulavs, Oskars Linares

The book aims to demonstrate how algorithmic trading can empower retail traders to compete more effectively in markets long dominated by institutional giants. By translating advanced techniques into practical, systematic strategies, the book shows how automation, disciplined risk management, and data-driven decision making can help individuals filter out market noise, avoid manipulation, and exploit opportunities that once belonged exclusively to large firms. This book is aimed at anyone who wants to learn, or use R, for AI/Machine Learning and algorithmic trading.

Chapman & Hall
July 2026 : 352pp
Pb: 978-1-041-26468-2 : **£75.99**
Hb: 978-1-041-26470-5 : **£195**
eBook: 978-1-003-75045-1

* For full contents and more information, visit: www.routledge.com/9781041264682

An Introduction to Applied Bayesian Methods



Gilbert W. Fellingham Brigham Young University, USA,
Scott A. Baldwin Brigham Young University, USA.

This book emphasizes practical application, showing how Bayesian models can handle variability, uncertainty, and predictive challenges in ways that are both intuitive and robust. Supplemental Nimble code is also available online, offering additional flexibility for readers. The book is ideal for advanced undergraduate students, researchers, and professionals in statistics and related fields. If you have a basic understanding of Bayesian principles and want to deepen your knowledge with practical examples, this book is for you. It's also a valuable resource for educators teaching applied Bayesian methods.

Chapman & Hall
October 2026 : 256pp
Pb: 978-1-032-41286-3 : **£51.99**
Hb: 978-1-032-41285-6 : **£94.99**

* For full contents and more information, visit: www.routledge.com/9781032412863

2ND EDITION

An R Companion to Linear Statistical Models



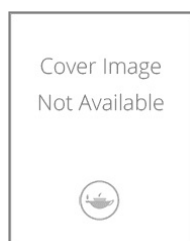
Christopher Hay-Jahans University of Alaska-Southeast, Juneau, USA

Taking advantage of both user-developed code and specialized functions, this second edition of An R Companion to Linear Statistical Models again targets two primary audiences: Those who are familiar with the introductory theory and applications of linear statistical models and who wish to learn how to use R in this area, or explore further ideas that might appear in this Companion; and those who are enrolled in an intermediate to advanced level course on linear statistical models for which R is the computational platform. This Companion includes accessible introductions to writing R code as well as making use of functions through relevant examples.

Chapman & Hall
September 2026 : 440pp
Pb: 978-1-032-93837-0 : **£82.99**
Hb: 978-1-032-93694-9 : **£210**

* For full contents and more information, visit: www.routledge.com/9781032938370

Bayesian Models in Health Technology Assessment



Gianluca Baio Department of Statistical Science, University College London, UK

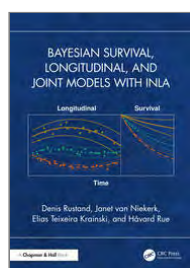
Series: Chapman & Hall/CRC Biostatistics Series

Aims at presented a thorough and yet accessible description of the philosophy underlying the Bayesian approach to statistical inference, as specifically applied to the process of health technology assessment (HTA). The book is grounded in practical examples, mostly taken from the HTA context and covering a wide range of real problems, typically encountered by modellers in their day-to-day work.

Chapman & Hall
September 2026 : 382pp
Hb: 978-1-041-29738-3 : **£91.99**

* For full contents and more information, visit: www.routledge.com/9781041297383

Bayesian Survival, Longitudinal, and Joint Models with INLA



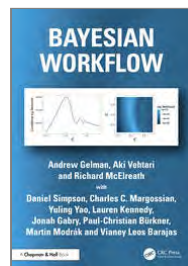
Denis Rustand CEMSE, KAUST, Thuwal, Saudi Arabia,
Janet van Niekerk CEMSE, KAUST, Thuwal, Saudi Arabia,
Elias Krainski CEMSE, KAUST, Thuwal, Saudi Arabia,
Håvard Rue

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
May 2026 : 314pp
Hb: 978-1-041-08769-4 : **£91.99**
eBook: 978-1-003-64682-2

* For full contents and more information, visit: www.routledge.com/9781041087694

Bayesian Workflow



Andrew Gelman, **Aki Vehtari**, **Richard McElreath** Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany, **Daniel Simpson**, **Charles C. Margossian**, **Yuling Yao**, **Lauren Kennedy**, **Jonah Gabry**, **Paul-Christian Bürkner**, **Martin Modrák**, **Vianey Leos Barajas**

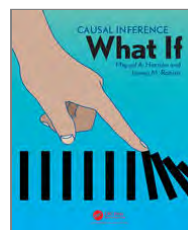
This book explores the intricate workflows of applied Bayesian statistics, aiming to uncover the tacit knowledge often overlooked in published papers and textbooks. By systematizing the process of Bayesian model development, the book seeks to improve applied analyses and inspire future innovations in theory, methods, and software.

Chapman & Hall
June 2026 : 552pp
Pb: 978-0-367-49014-0 : **£44.99**
Hb: 978-0-367-49018-8 : **£120**

* For full contents and more information, visit: www.routledge.com/9780367490140

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
October 2026 : 312pp
Hb: 978-1-420-07616-5 : **£44.99**
eBook: 978-1-315-37493-2

* For full contents and more information, visit: www.routledge.com/9781420076165

Comparative Effectiveness and Personalized Medicine Research Using Real-World Data



Edited by **Thomas P. A. Debray**, **Tri-Long Nguyen**, **Robert W. Platt**

Series: Chapman & Hall/CRC Biostatistics Series

Comparative Effectiveness Research (CER) is pivotal to influencing regulatory policies (e.g., market authorization of new drugs), economic evaluations (e.g., reimbursement decisions), and the standardization of care across diverse settings (e.g., through the development of treatment guidelines) for well-functioning healthcare systems.

Chapman & Hall
May 2026 : 621pp
Hb: 978-1-032-29274-8 : **£170**
eBook: 978-1-003-30080-9

* For full contents and more information, visit: www.routledge.com/9781032292748

Copula Models for Dependent Competing Risks

Theory and applications in economics, engineering and medicine

Ralf A. Wilke, Takeshi Emura, Simon M.S. Lo

This publication addresses copula approaches to competing risks models for dependent latent failure times. It will establish the fundamentals on dependent competing risks models, as well as a range of recent developments to identifiability and estimation using copulas. Readers will learn from the presentation of theory, in relation to its applications in different subject areas in economics, engineering, and medicine.

Chapman & Hall
July 2026 : 224pp
Pb: 978-1-032-85114-3 : **£49.99**
Hb: 978-1-032-85121-1 : **£190**

* For full contents and more information, visit: www.routledge.com/9781032851143

Empirical Processes and Statistical Reinforcement Learning

A Festschrift in Honor of Michael R. Kosorok

Edited by **Shuangge Ma** Yale University School of Public Health, U.S.A., **Eric Laber** North Carolina State University, Raleigh, USA

The book encompasses topics such as empirical processes, semiparametric inference, causal inference, reinforcement learning, artificial intelligence, and precision medicine. With contributions from leading experts in the field, it highlights Michael R. Kosorok's pivotal role in advancing statistical methodology for cancer research and treatment regimes. This Festschrift serves both as a reference for researchers and a resource for PhD-level education in biostatistics and biomedical research.

Chapman & Hall
October 2026 : 384pp
Hb: 978-1-032-85663-6 : **£130**

* For full contents and more information, visit: www.routledge.com/9781032856636

Does This Treatment Cause That Outcome?

The Science of Estimating a Treatment Effect and Why It Matters

Stephen J. Ruberg

Does This Treatment Cause That Outcome?: The Science of Estimating a Treatment Effect and Why It Matters is an engaging and insightful exploration of cause-and-effect relationships in clinical research. It begins with the foundational principles of causal inference, traces the historical evolution of randomized controlled trials, and provides a clear, comprehensive explanation of the essential elements of ICH E9(R1). The central themes of ICH E9(R1) – defining the clinical question of primary importance and establishing the estimand to answer that question – are seamlessly integrated throughout the narrative.

Chapman & Hall
July 2026 : 282pp
Pb: 978-1-041-04979-1 : **£56.99**
Hb: 978-1-041-04974-6 : **£150**

* For full contents and more information, visit: www.routledge.com/9781041049791

Environmental Modelling with Contemporary Statistics

Learning, Directionality, and Space-Time Dynamics

Edited by **Andriëtte Bekker** University of Pretoria, South Africa, **Priyanka Nagar** Stellenbosch University, South Africa, **Johan Ferreira** University of Pretoria, South Africa, **Barend Erasmus**, **Abel Ramoelo** University of Pretoria, South Africa

This book places an emphasis upon statistical methodology, data interpretation, and futureproofing with the intention of advancing statistics for the environment, ecology, and environmental health, in addition to environmental theory and practice, via the application of reliable statistics. Primarily intended as a reference book for academic researchers and graduate level students in statistics as well as multidisciplinary domains, the chapters reflect a shared commitment to advancing methodological rigor while addressing real-world environmental concerns.

Chapman & Hall
June 2026 : 388pp
Hb: 978-1-032-90391-0 : **£120**
eBook: 978-1-003-56442-3

* For full contents and more information, visit: www.routledge.com/9781032903910

2ND EDITION

Empirical Likelihood Method in Survival Analysis

With R Implementation, Second Edition

Mai Zhou University of Kentucky, Lexington, USA

Series: Chapman & Hall/CRC Biostatistics Series

This book systematically covers empirical likelihood methods in most important topics in survival analysis: the Kaplan–Meier and the Nelson–Aalen estimator, the log rank test, the Cox proportional hazards model and the accelerated failure time models. In addition, it also covers an extension of the Cox model—the short term/long term hazard ratio model of Yang and Prentice. Finally, empirical likelihood methods with current status data or type I interval censored data are investigated: estimation/test for the mean/hazard/probability and regression models are discussed.

Chapman & Hall
September 2026 : 351pp
Hb: 978-1-032-98635-7 : **£125**

* For full contents and more information, visit: www.routledge.com/9781032986357

Every Coin Has Two Sides

An Introduction to Causal Inference in Pharmaceutical Statistics

Yixin Fang AbbVie, Chicago, USA

Series: Chapman & Hall/CRC Biostatistics Series

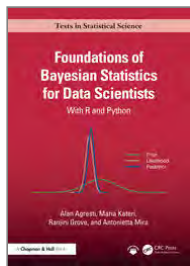
Progressing from basic statistical concepts to advanced targeted learning techniques, the book highlights the fusion of two cultures of statistical modelling. This book is suitable for graduate students in statistics, biostatistics, public health, and data science who are looking to pursue a career in the pharmaceutical industry, as well as for clinical statisticians and epidemiologists working in the pharmaceutical industry.

Chapman & Hall
August 2026 : 392pp
Hb: 978-1-041-06300-1 : **£110**

* For full contents and more information, visit: www.routledge.com/9781041063001

Foundations of Bayesian Statistics for Data Scientists

With R and Python



Alan Agresti , Maria Kateri , Ranjini Grove , Antonietta Mira Università della Svizzera italiana Campus Est

Series: Chapman & Hall/CRC Texts in Statistical Science

This book is an overview of the Bayesian approach to applying the most important inferential methods of statistical science. It is designed as a textbook for advanced undergraduate and master's students in Data Science, Statistics, or Mathematics who are interested in learning about Bayesian statistics.

Chapman & Hall
June 2026 : 450pp
Pb: 978-1-041-20292-9 : **£59.99**
Hb: 978-1-041-20291-2 : **£150**
eBook: 978-1-003-71592-4

* For full contents and more information, visit: www.routledge.com/9781041202929

Graduate Students in Data Science Consulting

A Blueprint for Success



Emily H. Griffith , Mara Rojeski Blake , David J. Edwards , Shannon Ricci , Michelle Thompson Gumbs , Kate Freeman , Joddy Marchesoni

This manual provides a practical guide on how graduate students can work in statistical and data science consulting and offers valuable resources for anyone interested in creating, expanding, or maintaining statistical or data science consulting programs in higher education across multiple disciplines. This book is aimed at readers looking to set up a consulting program with their graduate students, as well as graduate students looking to consult during their studies.

Chapman & Hall
May 2026 : 138pp
Hb: 978-1-041-04973-9 : **£54.99**
eBook: 978-1-003-63079-1

* For full contents and more information, visit: www.routledge.com/9781041049739

Gun Violence

The Statistical Issues



Edited by **Charles Loeffler , James L. Rosenberger , Lingzhou Xue**

This book provides an overview of adequate data and informative analyses on several important topics in gun violence research. This book exposes the opportunities and needs for the latest statistical efforts and engages new statisticians and data scientists to work across disciplinary lines to help understand and mitigate the effects of gun violence.

Chapman & Hall
July 2026 : 244pp
Hb: 978-1-032-55449-5 : **£89.99**

* For full contents and more information, visit: www.routledge.com/9781032554495

2ND EDITION

Handbook of Regression Modeling in People Analytics

With Examples in R and Python, Second Edition



Keith McNulty

This book is a resource on inferential statistics and regression analysis. It teaches how to do a wide range of statistical analyses in both R and Python, ranging from simple hypothesis testing to advanced multivariable modelling. The book hits a 'sweet spot' where there is just enough mathematical theory to support a strong understanding of the methods, but with a step-by-step guide and easily reproducible examples and code, so that the methods can be put into practice immediately. This makes the book accessible to a wide readership, from public and private sector analysts and practitioners to undergraduate and postgraduate students and researchers.

Chapman & Hall
October 2026 : 440pp
Pb: 978-1-041-12126-8 : **£67.99**
Hb: 978-1-041-11060-6 : **£190**

* For full contents and more information, visit: www.routledge.com/9781041121268

Handbook of Statistics of Extremes



Edited by **Miguel de Carvalho , Raphaël Huser , Philippe Naveau , Brian J. Reich** N.C. State University

Series: Chapman & Hall/CRC Handbooks of Modern Statistical Methods

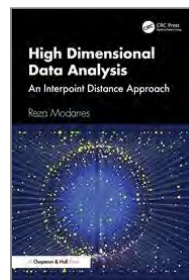
The Handbook of Statistics of Extremes covers statistical models for univariate, multivariate, and spatio-temporal extreme values. Written by leading experts from around the world, it serves as a key reference for statisticians and data scientists, as well as for professionals working in risk modeling—such as geophysical and climate scientists, financial analysts, and health clinicians and neuroscientists—and as a valuable resource for practitioners and graduate students who wish to deepen their understanding of the statistical modeling of extreme events.

Chapman & Hall
July 2026 : 802pp
Hb: 978-1-032-51980-7 : **£195**

* For full contents and more information, visit: www.routledge.com/9781032519807

High Dimensional Data Analysis

An Interpoint Distance Approach



Reza Modarres Department of Statistics

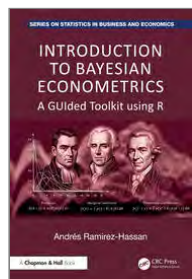
Designed for graduate students, advanced undergraduates, and researchers with training in matrix theory and mathematical statistics, the text assumes no prior exposure to high-dimensional techniques. Familiarity with classical multivariate analysis, while not required, will deepen appreciation of the material. The exposition balances theoretical development with practical insight, pairing formal proofs with illustrative examples and providing implementations in the R programming language to support hands-on engagement.

Chapman & Hall
October 2026 : 696pp
Hb: 978-1-041-32194-1 : **£120**

* For full contents and more information, visit: www.routledge.com/9781041321941

Introduction to Bayesian Econometrics

A Guided Toolkit using R



Andre Ramirez Hassan

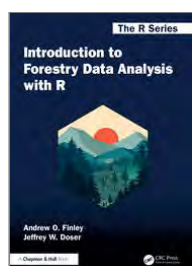
Series: Chapman & Hall/CRC Series on Statistics in Business and Economics

This book offers a practical and computationally accessible pathway into Bayesian data analysis and combines rigorous treatment of foundational ideas with a graphical user interface (GUI) that allows users to run Bayesian regression models in a user-friendly environment. The first part develops the mathematical foundations of Bayesian inference by presenting all derivations step-by-step. The second part focuses on implementation. The third part extends the framework to modern Bayesian econometrics. Across all parts, the book is designed to support a wide range of users -beginners, intermediate programmers, and advanced learners.

Chapman & Hall
July 2026 : 624pp
Pb: 978-1-032-35466-8 : **£74.99**
Hb: 978-1-032-35366-1 : **£210**

* For full contents and more information, visit: www.routledge.com/9781032354668

Introduction to Forestry Data Analysis with R



Andrew O. Finley , Jeffrey W. Doser

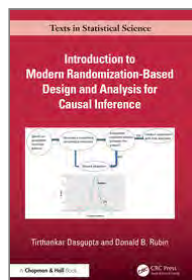
Series: Chapman & Hall/CRC The R Series

Equips students and practitioners with the skills needed to move confidently between field measurements and modern analytical workflows. As forestry, ecology, and natural resource management become increasingly data-driven, professionals are expected not only to collect information but also to organize, analyze, visualize, and defend quantitative results.

Chapman & Hall
September 2026 : 630pp
Pb: 978-1-032-12027-0 : **£59.99**
Hb: 978-1-032-12028-7 : **£155**

* For full contents and more information, visit: www.routledge.com/9781032120270

Introduction to Modern Randomization-Based Design and Analysis for Causal Inference



Tirthankar Dasgupta , Donald B. Rubin

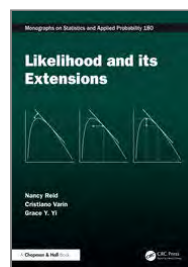
Series: Chapman & Hall/CRC Texts in Statistical Science

This book provides a modern, accessible, and computationally supported introduction to experimental design grounded firmly in randomization and the formulation of ideas and methods in terms of potential outcomes. Instead of prescribing a model for each design, we begin with the treatment assignment mechanism and link it directly to the observed outcomes through the potential outcomes framework. The book also incorporates new developments at the interface of causal inference and experimental design, many stemming from the authors' recent collaborative research efforts.

Chapman & Hall
August 2026 : 360pp
Hb: 978-0-367-50098-6 : **£76.99**

* For full contents and more information, visit: www.routledge.com/9780367500986

Likelihood and its Extensions



Nancy Reid University of Toronto, Onatario, Canada,
Cristiano Varin , Grace Y. Yi

Series: Chapman & Hall/CRC Monographs on Statistics and Applied Probability

This book is intended for readers with diverse backgrounds who have an interest in, or a need for, statistical methods in complex models. Some familiarity with likelihood-based inference and the main principles of estimation and hypothesis testing are assumed. The authors have used this text for graduate-level courses in inference and in specialized courses in likelihood-based inference.

Chapman & Hall
August 2026 : 328pp
Hb: 978-1-498-71974-2 : **£91.99**

* For full contents and more information, visit: www.routledge.com/9781498719742

Linear Model and Extensions



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

This book is suitable for advanced undergraduate or graduate-level courses on linear modeling, or graduate-level courses on generalized linear modeling. It can also be used as a reference for researchers who are searching for basic properties of the linear model and its extensions.

Chapman & Hall
September 2026 : 440pp
Pb: 978-1-032-82550-2 : **£68.99**
Hb: 978-1-032-82455-0 : **£190**

* For full contents and more information, visit: www.routledge.com/9781032825502

Logistic Regression

Bridging Theory and Practice



Hassan Doosti

This book bridges that gap with a comprehensive, hands-on guide to binary outcome modelling that goes well beyond the basics. Whether you are an advanced undergraduate or graduate student studying regression modelling or applied statistics, a researcher navigating imbalanced outcomes in epidemiology or finance, or a data scientist seeking reliable methods for classification problems, this book offers the depth and practicality to meet you where you are and take your work further.

Chapman & Hall
September 2026 : 436pp
Pb: 978-1-041-24811-8 : **£51.99**
Hb: 978-1-041-24812-5 : **£91.99**

* For full contents and more information, visit: www.routledge.com/9781041248118

Longitudinal Analysis of Real World Time-to-event Data in Health Care

Big Data Approach using R



Atanu Bhattacharjee University of Leicester, UK

This book presents a practical approach for researchers seeking to analyse patient data over time. It serves as a comprehensive guide, utilising the R programming language to analyse complex datasets efficiently. It provides step-by-step instructions and examples, aiding in data organisation and insightful analysis to accurately predict event occurrences and the impact of different variables on patient outcomes, enhancing decision-making in medical practice. It covers data preprocessing, integration, and advanced modelling techniques to serve as a valuable resource for professionals and researchers seeking evidence-based decision-making in healthcare and related fields.

Chapman & Hall
June 2026 : 236pp
Hb: 978-1-032-84747-4 : **£150**
eBook: 978-1-003-51587-6

* For full contents and more information, visit: www.routledge.com/9781032847474

3RD EDITION

Markov Chain Monte Carlo

Stochastic Simulation for Bayesian Inference



Dani Gamerman , Hedibert F. Lopes , Flávio Bambera Gonçalves

Series: Chapman & Hall/CRC Texts in Statistical Science

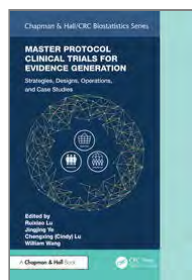
Marking a pivotal moment in the evolution of Bayesian inference, the third edition of this seminal textbook on Markov Chain Monte Carlo (MCMC) methods reflects the profound transformations in both the field of Statistics and the broader landscape of data science over the past two decades.

Chapman & Hall
July 2026 : 360pp
Pb: 978-1-041-00400-4 : **£59.99**
Hb: 978-1-032-99845-9 : **£155**

* For full contents and more information, visit: www.routledge.com/9781041004004

Master Protocol Clinical Trials for Evidence Generation

Strategies, Designs, Operations, and Case Studies



Edited by Ruixiao Lu , Jingjing Ye , Chengxing (Cindy) Lu , William Wang

Series: Chapman & Hall/CRC Biostatistics Series

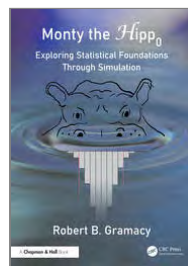
This book provides a multidisciplinary exploration of master protocol clinical trials, blending clinical, statistical, regulatory, operational, economic insights and patients perspectives. It examines both opportunities and challenges in design and implementation, and provides in-depth summary and discussion on real-world examples such as I-SPY, ROAR, and RECOVERY. A practical guide for researchers, statisticians, regulators, and industry professionals, it demonstrates how master protocols can reshape drug development and bring innovative therapies to patients faster.

Chapman & Hall
May 2026 : 436pp
Pb: 978-1-032-54454-0 : **£51.99**
Hb: 978-1-032-54452-6 : **£140**
eBook: 978-1-003-42496-3

* For full contents and more information, visit: www.routledge.com/9781032544540

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
May 2026 : 381pp
Pb: 978-1-041-25682-3 : **£56.99**
Hb: 978-1-041-25711-0 : **£94.99**
eBook: 978-1-003-74792-5

* For full contents and more information, visit: www.routledge.com/9781041256823

Multivariate Statistics Beyond Normality

Reinaldo B. Arellano-Valle , Marc G. Genton



Written by two leading specialists on multivariate statistics, this book includes the most recent and some novel results on skew-normal and related distributions, covering both singular and nonsingular cases in a unified way, and contains unpublished results on elliptical distributions from the first author's Ph.D. thesis. Designed for a broad readership by starting from basic fundamental concepts and leading to more advanced topics, the book includes 150 exercises, many original, to practice the concepts presented across the chapters, as well as 40 open problems that still need to be further researched.

Chapman & Hall
September 2026 : 400pp
Hb: 978-1-032-96325-9 : **£91.99**

* For full contents and more information, visit: www.routledge.com/9781032963259

Necessary Condition Analysis (NCA)

Principles and Application



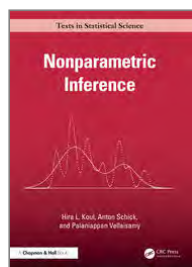
Jan Dul Rotterdam School of Management, Erasmus University, the Netherlands

This book introduces this methodology at an advanced level, taking readers through the theoretical underpinning and its varied application in empirical research across the social sciences and beyond. Aimed at PhD students and researchers, data analysts, practitioners, and others, the book helps readers develop a deeper understanding of the NCA approach and apply it effectively and with high-quality standards. It brings together the fundamentals of NCA and integrates the most recent methodological advancements and tools. No prior knowledge of NCA is required but readers would benefit from familiarity with the basics of research methodology.

Chapman & Hall
September 2026 : 486pp
Hb: 978-1-032-55447-1 : **£120**

* For full contents and more information, visit: www.routledge.com/9781032554471

Nonparametric Inference



Hira L. Koul, Anton Schick, Palaniappan Vellaisamy

Series: Chapman & Hall/CRC Texts in Statistical Science

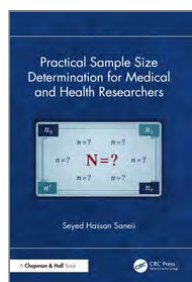
Provides a comprehensive and balanced treatment of both classical and modern methods in nonparametric inference. It begins with foundational topics such as order statistics, ranks, and confidence intervals for medians and percentiles, before progressing to distribution-free tests, robust estimators, regression quantiles, and U-statistics.

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Practical Sample Size Determination for Medical and Health Researchers



Seyed Hassan Saneii

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Lei Hua

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Chapman & Hall
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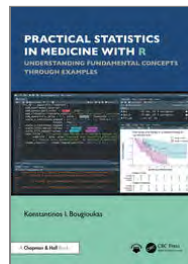
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Konstantinos I. Bougioukas Aristotle University of Thessaloniki, Greece.

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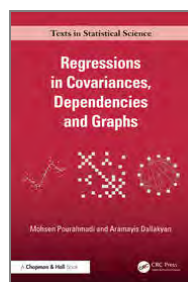
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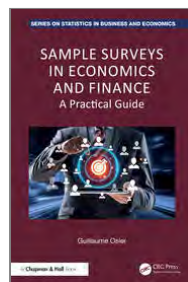
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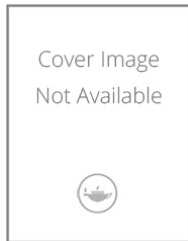
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Brandon LeBeau

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With Hands-On Illustrations Using R



Nalini Ravishanker University of Connecticut, Storrs, USA, **Asha Gopalakrishnan**, **Haim Bar**

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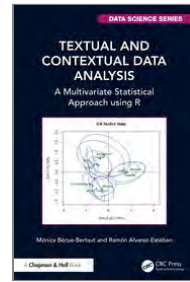


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A Multivariate Statistical Approach using R



Mónica Bécue-Bertaut, **Ramón Alvarez-Esteban**

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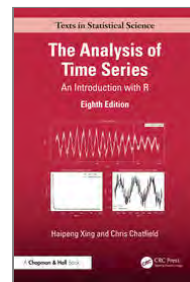
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8TH EDITION

The Analysis of Time Series

An Introduction with R



Haipeng Xing, **Chris Chatfield**

Series: Chapman & Hall/CRC Texts in Statistical Science

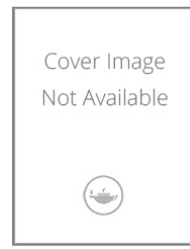
This eighth edition presents a systematic treatment of time-series analysis, integrating classical statistical methods with recent advances in machine learning and artificial intelligence. Core topics include ARIMA and spectral methods, linear systems, state-space representations and Kalman filtering, nonlinear and volatility models, and multivariate time-series modeling.

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The Art of Data Visualization with ggplot2

The TidyTuesday Cookbook



Nicola Rennie Lancaster University, U.K.

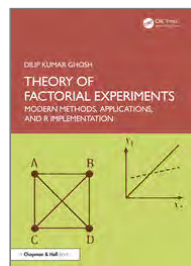
This book is aimed at those who wish to develop their data visualization skills in R. Readers of this book may find a basic knowledge of R, more specifically of the tidyverse ecosystem, useful - although all code used in examples is fully explained. Readers do not need to be experienced in ggplot2, though this book will also be of interest to those who are. This book will also be of interest to those who are already familiar with R (including ggplot2), and wish to develop their skills in designing data visualizations further. It will also interest those who already design data visualizations using other tools, and want to learn how to do the equivalent in R.

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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 $2n_1 \times n_2$ 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.

Chapman & Hall
May 2026 : 308pp
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What's the Question?

Deciding What You Really Want to Know



David J. Hand

Series: Chapman & Hall/CRC Data Science Series

Describes the challenges and pitfalls implicit in deciding what we want to know and what we want to do when using those tools, and thus how we can those tools effectively. The book is a guide to all statisticians and data scientists who are concerned with using their expertise to analyse data to obtain insights or to choose actions.

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Work Automation with R



Tiger Tang Data Science Manager at CARFAX, inc

Series: Chapman & Hall/CRC The R Series

The book provides a solid framework on how to automate tasks and workflows in the workplace with R. This book introduces the most common components used in R automation, one by one, and then shows how to combine them to tackle real-world tasks. Aimed at business professionals and data practitioners who want to automate their work, the book assumes a basic working knowledge of R, including writing and running scripts, and performing common data tasks such as importing, transforming, and summarizing data. It also assumes a willingness to write small helper functions to automate repeated steps. Key tools and patterns are introduced as needed in end-to-end automation examples.

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3	AI for Understanding Subtext in Film and Drama	13	Artificial Intelligence in Operations: Strategy, Efficiency, and the Future of Execution	16	Computational Intelligence	53
3ds Max Basics for Modeling Video Game Assets	AI in Healthcare	13	Artificially Intelligent Towards Sustainable Impact Accelerator through Education, Research and Advocacy	16	Computational Modelling with Single Prompts	53
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A	AI Use Cases for Public Diplomacy	14	Audio Spoof Detection from Theory to Practical Application	64	CRC Handbook of Chemistry and Physics	3
Abstract Cauchy Problems	Algorithmic Trading via AI/Machine Learning with R	14	A Visual Approach to Introductory Functional Analysis	42	Creating Websites with AI	17
A Concise Guide to Medical Research	Algorithmic Urbanism for Climate Resilience	14	B		Cryptocurrency Forensics and Investigation using Open Source Intelligence Techniques (OSINT)	66
A Course in Large-Sample and High-Dimensional Theory	Almost Periodic Functions and Integro-Differential-Difference Equations in Locally Convex Spaces	42	Bayesian Models in Health Technology Assessment	76	Cryptocurrency Forensics and Investigation using Open Source Intelligence Techniques (OSINT)	66
A Course in Regression and Smoothing Methods	A Multi-Wavelength History of Astronomical Surveys	52	Bayesian Survival, Longitudinal, and Joint Models with INLA	76	Cryptography in the Age of Blockchain	66
Advanced Basketball Data Science	An Introduction to Applied Bayesian Methods	75	Bayesian Workflow	76	Cutting-Edge Agri-Technologies for Next-Generation Farming	18
Advanced Data Science and Analytics with Python	An Introduction to Disorder	52	Beautiful Security	64	Cyber Risk is a Myth	66
Advanced Informatics Engineering	An Introduction to Large Language Models	14	Believe! The Winning Mindset for Project Managers	64	Cybersecurity and the Art of Cyberwar	66
Advanced Investigation Strategies for IoT Forensics	An Introduction to Virtual and Augmented Reality	14	Best Practices for Clinical Trial Sites	2	Cybersecurity in Motion	66
Advanced Polymers	An R Companion to Linear Statistical Models	76	Beyond Algorithms	52	D	
Advanced Wireless Communication Technologies	Anti-Analytics	63	Beyond Complementary Metal-Oxide-Semiconductor Nanoelectronics	53	Darboux Transformation of Nonlinear Schrödinger Equations	54
Advances in AI for Plant Protection	Applications of Quantum Field Theory to Problems in Machine Learning	52	Big Data Security Governance and Prevention	17	Dark Faces in Cyber Places	67
Advances in Science and Technology	Applied Cryptography	14	Biophysical Models of Radiation Action	53	Data-Driven IoT Ecosystems	67
Affective Learning and Serious Games	Applied Cyber Threat Intelligence	63	Blackjack Mathematics for Non-Mathematicians	43	Data Driven Game Development	18
Agentic Intelligence	Applied Linear Algebra for Engineers	43	Blockchain-Enabled Digital Security Solutions	65	Data Science for Sustainable Development Goals	18
Agile, DevOps, Testing, Low Code, and AI	Applied Machine Learning on Sensing Technologies	15	Blockchain and AI Amalgamation for IoT Applications Beyond 5G	17	Data Science in Healthcare	18
AI, Machine Learning, and Blockchain for Next-Generation Spectrum Management	Applied Mathematics Toolkit	43	Brain Drug Delivery for the Treatment of Neurological Disorders	2	Dawn of the Stars, The Story of the Seven Sisters	54
AI-Driven Decision-Making in Finance	Applied Mechanics of Solids - 2 VOL SET	52	Bridging the Gap	10	Decoding Global Marketing Decisions	67
AI-driven Medical Image Analysis in Precision Radiation Therapy	A Practical Guide to Escape Room Design	10	Bridging Traditions for a New Era in Personalized Natural Medicine	10	Deep Learning Applications	18
AI-Driven National Cyber Defense and Resilience Strategies	A Practical Guide to Integrating Generative AI into HR Management	10	Building Blocks of Tabletop Game Design	17	Demystifying Probability and Statistics for Data Scientists with R	67
AI and Maternal Health	A Primer on Post-Quantum Cryptography	42	C		Designing Agentic AI Experiences	18
AI and ML in IoT Security	Architecting a Framework for Edge AI Functional and Non-functional Requirements	15	Carbohydrate Chemistry	3	Designing Usable Products for African Users	19
AI Driven Cloud Forensics	Artificial Conscience for the Quantum Physicist	15	Causal Inference	76	Development of Scientific Research Projects	4
AI for a Just World	Artificial Intelligence and Legal Evidence	15	Chemistry and Biology of Heterocycles: Two Volume Set	3	Differential and Difference Equations in Mathematical Biology	44
AI for Biomedical Research	Artificial Intelligence and Robotics in Sports Industry	15	Chemistry and Biology of Heterocycles Volume 1	3	Digital Accessibility Ethics	19
AI for Christian Theology	Artificial Intelligence for Cancer Diagnosis and Treatment in Africa	16	Chemistry and Biology of Heterocycles Volume 2	3	Digital Farming	19
AI for Decision Intelligence in Critical Systems	Artificial Intelligence for Marketing Strategies	16	CISO: Evolution of a Vocation	65	Digital Minds 1.0	19
AI for Environmental Innovation and Stewardship	Artificial Intelligence for Predictive Healthcare	64	Climate Urbanism and Vulnerability	17	Digital Personality: A Man Forever	19
AI for HCI	Artificial Intelligence for Renewable Energy Systems	64	Cloud Compliance Essentials	65	Digital Project Practice to Capitalize on Digital Assets and Virtual Currencies	67
AI for Marketing	Artificial Intelligence for Transportation	16	Cloud Computing	65	Digital Storytelling	19
AI for the Ordinary	Artificial Intelligence in Action	64	Combating Misinformation in the Age of Generative AI	65	Digital Storytelling Two Volume Set	20
AI for Time Series	Artificial Intelligence in Context of Digital Sovereignty	16	Communicating Science in Public	53	Digital Technologies for Underwater Surveillance and Management	20
AI for Time Series	Artificial Intelligence in Medical Physics	52	Comparative Effectiveness and Personalized Medicine Research Using Real-World Data	76	Does This Treatment Cause That Outcome?	77
			Complex Population Dynamics	43		

- DRONES 20
 Drug Delivery 4
E
 Educational Game Design Fundamentals 20
 Electric Sheep, Encrypted Dreams 67
 Elementary Differential Equations 44
 Empirical Likelihood Method in Survival Analysis 77
 Empirical Processes and Statistical Reinforcement Learning 77
 Engineering Applications of AI for Demand Forecasting 20
 Engineering Biological Systems 4
 Enhancing Healthcare Informatics with Transparent and Explainable AI 68
 Enhancing Modern Living with Virtual and Augmented Reality 20
 Environmental Modelling with Contemporary Statistics 77
 Ethical AI and Education 21
 Every Coin Has Two Sides 77
 Explainable Artificial Intelligence and Interpretable Machine Learning in Education 21
 Exploratory Data Analysis Using R 21
F
 Facial Animation in 3D, Games, and Extended Realities 21
 Federated Learning for Healthcare 21
 Federated Learning in Finance 68
 Field-Emission Vacuum Nanoelectronics 54
 Fifty Fascinating Molecules from A to Z 4
 Finite Element Methods for Eigenvalue Problems 44
 Fire Brigades to Firewalls 68
 Foreign Policy at the AI Frontier 21
 Foundations of Bayesian Statistics for Data Scientists 78
 Foundations of Physical Chemistry 4
 Foundations of Robotics 22
 Freeform Vector Diffraction Theory 54
 From Code to Cloud 68
 Fundamental Optical Models 55
 Fundamental Physics 55
 Fundamentals of Data Structures and Algorithms 68
 Fundamentals of Mean Field Theories of Liquid Crystals 55
 Fundamentals of Quantum Computing 22
G
 Game AI Uncovered 22
 Game AI Uncovered Focus 22
 Game AI Uncovered Focus 22
 Game Design Deep Dive 22
 GenAI Security 23
 Generalized β -Impulsive Equations 44
 General Relativity and Its Applications 55
 Generative Adversarial Networks for Cybersecurity 68
 Generative AI 2.0 and Data Analytics 69
 Generative AI for Cybersecurity 69
 Generative AI in the Social Sciences and Humanities 23
 Geometric Orbifold Cohomology 44
 Geometry for Computer Applications 44
 Geometry of Derivation, Volume II 45
 Geometry of Derivation, Volume III 45
 Get ISO 27001 Certified 69
 GMP, GCP and GLP Bundle 4
 Good Manufacturing Practices for Pharmaceuticals 5
 Governing AI Risk—The RIVER Charter 69
 Graduate Students in Data Science Consulting 78
 Green Chemistry 5
 Green Cyber-physical Systems 23
 Gun Violence 78
H
 Handbook for Vigilance in the Chemical and Biohazard Environments 5
 Handbook of Combinatorial Algebraic Geometry 45
 Handbook of Creatine and Creatinine In Vivo Kinetics 5
 Handbook of Linear Partial Differential Equations for Engineers and Scientists 45
 Handbook of Microbial Artificial Intelligence 23
 Handbook of Microplastics and Associated Chemicals 5
 Handbook of Regression Modeling in People Analytics 78
 Handbook of Statistics of Extremes 78
 Handbook of Sustainable Management of Biodiversity 5
 Handbook of Visual Optics, Two-Volume Set 55
 Handbook of Visual Optics, Volume One 55
 Handbook of Visual Optics, Volume Two 56
 Harnessing Machine Learning for Environmental Restoration and Surveillance 23
 Heterocyclic Compounds in Organic Chemistry 6
 High Dimensional Data Analysis 78
 How to Thrive in the Games Industry 23
 Human–AI Collaboration in Research 24
 Human-Centered Artificial Intelligence For Industrial Safety 24
 Human-Computer Interaction 24
 Human-Engaged Computing 24
 Human Centric Intelligent Transportation Systems 24
 Hybridization of Renewable Energy 56
 Hybrid Materials and Advanced Manufacturing 41
I
 Ideal and Resistive Magnetohydrodynamics 56
 Improving Security and Energy Efficiency in IoT Networks 69
 Independent Thoughts and Exploration in Physics 56
 Independent Thoughts and Exploration in Physics 56
 Information Design 24
 Innovation and Knowledge Management in Manufacturing Industry 25
 Innovation in Africa for Industry 4.0 25
 Innovative Business Strategies 69
 Innovative Eco-processes Converting Biomass to Value-added Products 6
 Integrative Approach to Fungal Infections and Bioprospecting for Drug Discovery 6
 Integrative Approach to Fungal Infections and Bioprospecting for Drug Discovery 6
 Integrative Approach to Fungal Infections and Bioprospecting for Drug Discovery: Two Volume Set 6
 Intelligent Manufacturing Systems 25
 Intelligent Precision Healthcare 25
 Interpreting NMR Spectra Is Not Impossible! 6
 Introduction to Artificial Intelligence in Automotive Engineering 25
 Introduction to Automata Theory and Formal Languages 25
 Introduction to Bayesian Econometrics 79
 Introduction to Computational Engineering with MATLAB® 45
 Introduction to Forestry Data Analysis with R 79
 Introduction to Generative AI 26
 Introduction to High Performance Computing for Scientists and Engineers, Second Edition 26
 Introduction to Medical Physics Certification 56
 Introduction to Medical Physics Certification 57
 Introduction to Medical Physics Certification - Two Volume Set 57
 Introduction to Modern Randomization-Based Design and Analysis for Causal Inference 79
 Introduction to Particle Therapy 57
 Introduction to the Mathematics of Music 45
 Introduction to the Physics of Lasers 57
 Introduction to the Potential Theory for the Time-Dependent Stokes System 46
 Is Mind Just a Computation? 57
K
 Kirchhoff Equations 46
 Knowledge Graph and Semantic Web Technology based XAI 26
 Korean Studies in the Artificial Intelligence Era 26
 Korean Studies in the Artificial Intelligence Era 26
L
 Large Language Models and Prompt Engineering 26
 Large Language Models for Linguists 27
 Large Language Models in Healthcare 27
 Likelihood and Its Extensions 79
 Linear Algebra by Example 46
 Linear Model and Extensions 79
 Logic Before Language 70
 Logistic Regression 79
 Longitudinal Analysis of Real World Time-to-event Data in Health Care 80
 LOVE! VALOUR! EQUATIONS! 46
M
 Machine Learning based Approaches for Pedagogical Data Analysis 27
 Machine Learning for Healthcare Informatics 27
 Machine Translation 27
 Machine Unlearning 27
 Mapping Knowledge Across Time 28
 Markov Chain Monte Carlo 80
 Master Protocol Clinical Trials for Evidence Generation 80
 Math Affinity Puzzles 46
 Mathematical Analysis with Topological Examples 46
 Mathematical Concepts in Single-Neuron Dynamics 47
 Mathematical Foundations of Blockchains 28
 Mathematical Foundations of Blockchains 28
 Mathematical Foundations of Deep Learning 47
 Mathematical Methods for Physics and Engineering 57
 Mathematical Modeling and Simulation of Complex Fluid Systems 47
 Mathematical Modeling of Atherosclerosis, Cancer, and Diabetes 47
 Mathematical Solutions for Complex Engineering Systems 28
 Mathematical Tidbits 47
 Measure Theory and Integration 47
 Medical Devices and Data 58
 Medical Minds and Machine Learning 28
 Metaverse and Blockchain 70
 Microbial Green Surfactants 7
 Mining Complex Networks 48
 Mission-Critical Governance 70
 Modeling Practical Problems in Complex Systems 58

Modelling with Ordinary Differential Equations	48	Play, Life and Imagination	30	Rip Out the Core	72	Technology Management, Artificial Intelligence, and Machine Learning Strategies to Improve	
Modern Computing	28	Poisson Process and its Fractional Extensions with Applications	48	Risk Analysis in Engineering and Economics	49	Technology Integration and Usage in the Workplace	36
Monty the Null Hippopotamus	80	Policy and Governance of Artificial Intelligence	30	Risk Management	72	Test-Driven Data Analysis	82
Multimedia Security Using Chaos Theory and Secret Sharing Schemes	70	Polypeptide Innovations	8	Risk Management Strategies Using Fuzzy Optimization Techniques	49	Textual and Contextual Data Analysis	82
Multivariate Statistics Beyond Normality	80	Practical AI for Professionals	30	Robotics in Weaponry using Machine Learning and Engineering	33	The Advanced Game Narrative Toolbox	36
N		Practical Applications of Artificial Intelligence in Education	31	Robots and their Impact on Hospitality Leadership	33	The AI Educator	36
Navigating the Impact of Global AI Across Industries	29	Practical Cryostat Design and Construction	59	Robust Biometric Systems and Efficient Data Preservation	33	The Analysis of Time Series	82
Necessary Condition Analysis (NCA)	80	Practical Sample Size Determination for Medical and Health Researchers	81	RSSI-Based Localizations	34	The Animator's Blueprint	36
Neutrosophic Computing and Vague Data Analysis	48	Practical Statistical Consulting	81	S		The Art of Data Visualization with ggplot2	82
New Generation Advanced Materials for Regenerative Development	41	Practical Statistical Mechanics	59	Safe or Secure?	34	The Bioanalysis Glossary	9
New Trends in Blockchain	29	Practical Statistics in Medicine with R	81	Sample Surveys in Economics and Finance	81	The Chemistry and Technology of Petroleum	9
Next Generation Blockchain for Next Generation Society with Futuristic Technologies	29	Privacy and Security in AI-Driven Mental Health Apps	71	Samuel Ward Flinders	60	The Chemistry and Technology of Petroleum	9
Next Generation Email Security: AI Based Spam Detection	29	Problems and Solutions in Medical Physics	59	Scattering of Waves	49	The CISO Playbook	73
Nonparametric Inference	81	Problems and Solutions in Medical Physics	59	Security Relationship Management and The Shortest Hour Two-Book Bundle	72	The Conscious Code	37
Not Just Another Model	70	Project Management Maturity	71	Security Strategy of Intelligent Transport's Telematic Systems	72	The Deepfake Dilemma	73
Nuclear Fusion	58	Python 3 Using DeepSeek	31	Simulation and Power Analysis Using R	82	The Fintech Matrix	37
O		Python for Asset Management	48	Six Critical Lenses on AI-Generated Images	34	The Future of Learning	37
Online Trust and Safety	29	Python Using GPT-5 and Gemini	31	Skin Cancer Detection Using Artificial Intelligence Techniques	34	The Game Designer's Guide to Creating Licensed Tabletop Games	37
Optical Activity	58	Q		Smart, Inclusive, and Sustainable Digital Societies	34	The Hive	73
Optimal Load Management in EV-penetrated Networks: A Metaheuristic Approach with FACTS and DG Support	29	Quantum-Inspired Neural Networks	32	Smart, Secure, and Sustainable Digital Futures	35	The Introduction of Artificial Intelligence into Legal Systems	37
Organic Batteries	7	Quantum Artificial Intelligence	31	Smarter Healthcare through Generative Intelligence	72	The Math Thought Mindset	50
Organizational Resilience and Artificial Intelligence	70	Quantum Learning	31	Social Network Analytics	35	The Metaverse	73
Organizing for Cyber Power	71	Quantum Machine Learning	31	Software-Defined Networking for IoT Systems	73	The Modern Therapeutic Radiographer	60
P		Quantum Mechanics	59	Solved Problems in Applied Mechanics of Solids	60	Theory of Computation for Software Developers	38
Particle Astrophysics with Gamma-Ray Telescopes	58	Quest Giving	32	Statistical Practice for Data Science	82	Theory of Factorial Experiments	83
Pattern Language for Game Design	30	R		Statistics and Data Foundations for AI	35	The Physics and Mathematics of MRI	60
Pega Agentic AI on Cloud 3	71	Rage Against the Autonomous Machine	32	Stochastic Navier-Stokes Equations on Spheres and Spherical Shells	50	The Physics of Medical Imaging	60
Perspective as Geometry and Design	48	Reading Randomness I	49	Student of the Game	35	The Psychology of Software Teams	37
Perspectives on Machine Consciousness	30	Real and Complex Analysis	49	Substance Abuse in Special Populations	8	Thermodynamics	61
Pharmaceutical Chemistry and Technology	7	Recent Advances in Technology & Management	32	Successful Digital Painting	35	Thermoelectric Half-Heusler Compounds and Fe2Val	61
Pharmaceutical Computer Systems Validation	7	Recursion	32	Superhuman	35	The Stakeholder Perspective, Second Edition	74
Pharmaceutical Computer Systems Validation: Two Volume Set	7	Regressions in Covariances, Dependencies and Graphs	81	Sustainable Financial Structured Products	50	The Weight of Quantum	61
Pharmaceutical Process Engineering	8	Reimagining AI for Society, Organizations, and Work Environments	32	Sustainable UAV Ecosystems	73	The Z Garbage Collector	38
Physics of Animation	30	Reinforcement Learning Explained	33	Symmetries of Algebraic Varieties in Two and Three Dimensions	50	Time-Varying Constrained Optimization and Robot Optimal Control	38
Physics Thinking for the Life Sciences	58	Reinforcement Learning in Action	33	Synthetic Sequences in Organic Chemistry	8	Times Out of Mind	38
Plant Enzyme Systems and Their Biochemical and Environmental Interactions	8	Relativistic Plasmas	60	T		TinyML Foundations and Applications on Arduino Microcontrollers with MATLAB	38
Plant Secondary Metabolites in Ecological, Biochemical, and Agricultural Systems	8	Relevant Impact	71	Teaching and Learning in Higher Education with Generative AI	36	Topics in Mathematical Modeling by Difference Equations	50
Plasma Electronics	59	Representation Theory and C^* -algebras	49	Technical Animation in Video Games	36	Towards the Era of Autonomous Network	38
		Research Advances in Intelligent Computing	71			Transforming Tourism and Hospitality	39
		Research Advances in Network Technologies	72				

Trust, Safety, and the Internet We Share	74
Trust Hacked	74
Turing's Mistake	39

U

Understanding the Ethics of Generative AI	39
Unraveling Topological Crochet	50

V

Video Game Law	39
Virtual Reality Experience Design Handbook	39
Visualizing Biological Data with ggplot2	40
Visual Sensing and Ubiquitous Computing	39

W

Watch Me Jumpstart	40
Water Energy Nexus	9
Weakened Ramsey Theory	51
What's the Question?	83
What Games Mean	40
When Robots Move In	40
With AI Towards Sustainable Building Structures	40
Work Automation with R	83

Y

You Have 16 Hours	61
-----------------------------	----

A.			
Abd-El salam, Ahmad	11	Bai	38
Abdellatif	8	Baio	76
Abdul Karim, Vaithilingam, Happonen	16	Baklarz	65
Abualigah	18	Baklouti, Fujiwara, Ludwig	49
Abu Serhan	33	Ballentine, Jones, Mitchell, Wilson	46
Ackleh, Shu, Wang	44	Banafa	16
Ade-Ibijola, Oyelere, Osakwe	25	Barney	30
Adib	34	Bashiri	22
Adler	58	Bekker, Nagar, Ferreira, Erasmus, Ramoelo	77
Agresti, Kateri, Grove, Mira	78	Beloil	35
Ahad, Nijholt, Kamal, Schuller, Turk	15	Bertram	47
Ahad, Nijholt, Kamal, Schuller, Turk	39	Bethea	35
Ahmad Reshi, Sholla	66	Bhambri, Khan, Anand	62
Ahmed Khan, Dasgupta, Ghosh, Ghosh	15	Bhardwaj	63
Albert	58	Bhatnagar	28
Albert, Pandey, Shark	29	Bhatnagar	28
Albertson	73	Bhattacharjee	80
Alcázar	50	Blanch, Clark	4
Ali	30	Blythe	16
Ali, Rehmani	27	Bojowald	55
Allen	44	Bollman	43
Al Sakka, Al Khawaja	54	Boroujerdi	5
Amiot	45	Borzi	48
Amponsah, Kretchy, Pathak	8	Bougioukas	81
Anandan, Pal, Balaganesh, Badie	21	Bouko, Laba	34
Andreu, Monsegur	73	Bower	52
Ansorge, Graves	60	Bower	45
Apelian, Surace	49	Bower	60
Apellániz	40	Boyd, Pyne, Kane	39
Appasani, Jha	20	Breger, Davis, Williams	60
Aransiola, Reddy, Oyewole, Esenogho, Maddela	23	Bridges	2
Arellano-Valle, Genton	80	Brimacombe	75
Artal	56	Bryan	67
Artal	55	Brzeźniak, Dhariwal, Gia, Goldys, Mohan	50
Artal	55	Brzozowska, Dyduch, Pabian, Pabian, Sobocińska	72
Ayyub	49	Bucero, Englund	64
B.		Budden	51
Bagis	63	Bukhari	64
		Bunn	5
		Bunn	4
		Burk	50
		Bycer	22
		Bécue-Bertaut, Alvarez-Esteban	82
C.			
Cakim	12		
Campesato	31		
Campesato	31		
Caravelli, Dalvit	59		
Carpignani	47		
Cartensen	47		
Cervera, Cassinello	48		
Cestelli	70		
Chace, Lappas	30		
Challener	55		
Chandra Blessie, Raj, Sundaravadivazhagan	68		
Chandrakumar, Sharma, Chowdhury, Rabbie	19		
Chen, Moser	43		
Choudhary, K, Alagarsamy, Dhaou, Musiolik	16		
Chowdhury, Naskath, Kind, Rosak-Szyrocka, Dutta	67		
Cicchella	65		
Cifuentes-Albeza, Cuiñas, Goicoechea, Kamińska, Martínez-Cano, Raposo, Vairinhos, Zwoliński	39		
Cotton	4		
Cristianini	35		
Culbertson	10		
Culbertson	10		
Culbertson	10		
D.			
Damilakis, Bezak, Stoeva	52		
Daniel, Menking, Savio, Claffey	74		
Das, Saha	73		
Dasgupta, Rubin	79		
Dash, Senapati	62		
Dasu, Murthy	35		
Dayao	42		
Debray, Nguyen, Platt	76		
de Byl	36		
de Carvalho, Huser, Naveau, Reich	78		
Deek, Deek, Yao	68		
de Grijs	60		
Delanerolle, Bouchareb, Katsikopoulos, Phiri	18		
Denning	39		
Desai	23		
Desale, Majumder	10		
Dhanith P. R., S., Abdullah A.	14		
Dhavamani, Prakash, Vadivel	43		
Dimri, Nautiyal, Kumar, Indu	53		
Ding	79		
Di Salvo	37		
Di Vita	58		
Dix	24		
Dix	12		
Dong, Torrence	50		
Doosti	79		
Dua, Berwal, Jain, Dua, Dhirga	70		
Dua, Chakravarty, Dua	64		
Dul	80		
Dutta, Misra	25		
E.			
Eappen, Gunn, Zikos, Vajjhala	13		
Eappen, Vajjhala, Guo, Shinnars, Gunn	68		
Eddine, Akleyek	69		
Editorial Panel	9		
Ehtezazi	2		
Ekpenyong	56		
Ekpenyong	57		
Ekpenyong	57		
El Morri, da Silveira Gorman, Dolatabadi, Seyyed-Kalantari	12		
Endress	67		
Engelstein, Shalev	17		
Eriksson	24		
F.			
Fang	77		
Feingold, Gilbert, Fleet	19		
Fellingham, Baldwin	75		
Fernández Cueto	31		
Fernández Stigliano	15		
Ferrari, Gualtieri, Pani	55		
Ferry	59		
Finley, Doser	79		

- Flores 2
 Foka, Seco, Vretenar 57
 Formato, Moore, Pittock, Polk, Wright 53
 Fort 58
 Foster 68
 Foster 65
 Fowler, Chaundy 36
 Fox, Aitken 22
- G**
- G. Vilchez 40
 Garnerman, Lopes, Bambirra Gonçalves 80
 Gandotra, Pal 36
 Gangarapu, Reddy Veerareddy 3
 Garg, Al-Turjman, Walsh 69
 Garg, Pandey, Tyagi 37
 Garvey 50
 Gaur 39
 Gelman, Vehtari, McElreath, Simpson,
 Margossian, Yao, Kennedy, Gabry, Bürkner, Modrák,
 Barajas 76
 Georgenes, Buck 36
 Georgiev, Zennir 44
 Ghai, Lata Tripathi, Sandhu, Islam (Naz) 31
 Ghosh 83
 Giguère, Vincent 3
 Gill 28
 Gillies, Pan 14
 Gingrich 54
 Glebova 15
 Goh 18
 Golbin 69
 González-Acuña 54
 Gramacy 80
 Griffith, Blake, Edwards, Ricci, Gumbs, Freeman,
 Marchesoni 78
 Guenther, Roetman 46
 Guevara, Bulavs, Linares 75
 Gupta 7
- H**
- Hager, Wellein 26
 Hand 83
 Hawking, Coxon 21
- Hay-Jahans 76
 Hayes 71
 Hebden 60
 Hellgren, Lindgren 33
 Henson, Desharnais, Cushing, Dennis,
 Costantino 43
 Hernan, Robins 76
 Heussner 36
 Hewlett 17
 Hickey 8
 Hicks 37
 Hua 81
 Husen 8
 Husen 8
 Huskaj 71
 Hutson 11
 Hübsch, Minic 61
- I**
- Idoko, Ma'aitah, Abiyev 62
 Insana 43
 Insko, Precup, Richmond 45
- J**
- J, Kaushik, H L, Choudhury, P K 62
 Jacobsen 17
 Jagtap, Shingan 25
 Jain, Gupta, SINGH, Verma, Ayoub Shaikh 72
 Jain, Taherdoost, Panwar, Slimani 20
 Jamthe 27
 Jindapetch, Wattananavin, Thongpull,
 Booranawong 34
 John, Kumar, Subheesh, J, C C 13
 Johnson 45
 Johnson 45
- K**
- Kabus, Antczak, Skubis, Zajkowska 69
 Kahn 28
 Kalife 50
 Kalmpourtzis 20
 Kamath, Vajre 33
 Kamiński, Pralat, Théberge 48
 Kang, Heo, Hyoung Lee, Lee, B. Choi 26
 Kang, Heo, Hyoung Lee, Lee, B. Choi 26
- Karhikeyan, Akila, Sumathi, Poongodi 31
 Kaswan, Dhatteerwal, Nayyar 19
 Katuk, Nordin, Vergallo 34
 Katuk, Vergallo, Nordin 35
 Kaur, Singh Purewal, Francoisa, Kumar Rai, Irfan
 5
 Khanna 53
 Khanna 54
 Khine 21
 Kilburg 14
 Kilburg, Blaser 14
 Klote 2
 Kostić 42
 Koul, Schick, Vellaisamy 81
 Koundal, Khan, Atul Mahajan, Dey 25
 Kowshik, Sorenson 12
 Krantz 43
 Krogdahl 72
 Kufrij 68
 Kuhail, Tubishat, Kohail, Hadid 26
 Kulkarni, Deshpande, Estrela 16
 Kumar 6
 Kumar, Chaturvedi, Bansal, Latip 64
 Kumar, Saxena, Kumar, Singh 41
 Kumar, Srivastava, Peng 63
 Kumar, Şenaras, Ranjan, Şenaras 20
 Kumari, Tyagi 71
- L**
- Labriola 30
 Lahby, Elisa Schaeffer, Maleh, Banerjee 65
 Lake 36
 Lamprou, Wylie 4
 Landau, Pérez 54
 LeBeau 82
 Leech 70
 Leigh, Geller, Ryu 54
 Leonard 6
 Li, Li, Huang, Pan 38
 Li, Zeng, Chen, Li, Xu 38
 Liu, Zhao, Huang 14
 Loeffler, Rosenberger, Xue 78
- Lu, Thiruvathukal 32
 Lu, Ye, Lu, Wang 80
 Luckey 74
 Luscombe 61
- M**
- Ma, Laber 77
 MacDermott 73
 Mahalle, Faiz Shaikh, Ingle, Ingle 34
 Maïma 5
 Makabe, Petrović 59
 Mallik, Mathivanan, Shivahare, S.K.B, Jayagopal,
 Chakraborty 33
 Mathivanan, Mallik, Shivahare, S.K.B, Basheer 28
 Mathur, Srivastava, Sharma, Sharma, Khang, Khanna
 65
 Matsuyama 55
 Matyka 53
 McEwen 3
 McGladrey 66
 McGurn 52
 Mckie 40
 McLoughlin, Soon, Ka-Wei Lee, Lwin, Begum, Feid29
 McNulty 78
 Melnikova, Filinkov 42
 Mendonça 60
 Milani 70
 Miller 19
 Miller 20
 Misra, Chakraborty, Dey 27
 Misra, Kvalvik, Gran, Kjølervbakken, Omerovic, Noor16
 Mitra 62
 Modarres 4
 Mohapatra, Anand, Kapoor, Sardana, Kumar,
 Mohanty 64
 Mostafa 2
 Mozgovoy 38
 Muhler 64
 Muhler 67
 Mukherjee, Deyasi, Mukherjee, Debnath, Ghosh 27
 Mukherjee, Kumar 70
 Mulligan 9
 Murala, Panda 70
 Murran 48

Murthy, G M	26	Purkait	69	Sarkar, Mukhopadhyay	18	Sun, Zhou	44
Musiolik, Esteves, Kannan, Rodriguez	67			Sati, Schreiber	44	Sunnapwar, Chavan, Ansari	11
Mustafa, Sarkar	69	Q		Savant	32		
N		Qi	57	Schindler-Ruwisch, Ruwisch	11	T	
Naithani, Tiwari, Danu	29	R		Scopelliti	37	Tan	75
Nawwar, Sabry Othman	6	Radcliffe	82	Seelow	30	Tan	75
Neuman	13	Rai, Avila Quezada	18	Shafik	15	Tang	83
Newman	23	Rajan S., Raj Chelliah, P., Sundaravadivazhagn	67	Sharma	73	Tanwar, Das, Benslimane, Gupta	17
Ng, Ung, Hill	59	Ramirez Hassan	79	Sharma, Kumar	32	Thummarakoti	71
Ng, Yeong, Perkins	59	Rana, Azeez, Parker, Nankervis	34	Sharma, Pathak	2	Tyagi	24
Nigmatullin, Chen	49	Rathore, Kumar, Khan, Masoodi, Asiri, Kumar	13	Sharma, Puria, Kumar	6	Tyagi	29
Nikjoo, Taleei	53	Ravishanker, Gopalakrishnan, Bar	82	Sharma, Puria, Kumar	6		
Norton	52	Ray, Banik	3	Sheahan	6	U	
O		Ray, Banik	3	Sherly, Pillai, Manohar, McCrae	37	Uher	61
Olszowski, Gomulka	23	Ray, Banik	3	Shoemaker, Shoemaker, Jabri	27		
Omar, Abdul Karim, Lim	37	Reid, Varin, Yi	79	Shyam, Bharti	66	V	
Onyancha, Ukhurebor, Aigbe	23	Ren, Wang	24	Sichling	65	Valeri	33
Orsingher, Cesari, Mosco	48	Rennie	82	Siddique, Arefin, Abu Yousuf, Kaiser	40	van Eunen, Sikkema	10
Oruganti, V. Bhalerao, Gangadhar Naranje, A. Magdi, Gore	32	Roberts	22	Singh	57	Vega-Mercado	4
Osier	81	Roberts	22	Singh, Awasthi	47	Veglianti, Currie, Varriale	32
P		Roberts Jr., Bóna	44	Singh, Awasthi	28	Verma, Singh, Mondal, Kyratsis	41
Panagopoulos	32	Robinson	40	Singh, Raj, Qamar, Kumar, Kumar	33	Verma, Verma	71
Panic	21	Robinson	40	Singh, Suresh, Poongodi, Gopal, Senthil	25	Verma, Verma	72
Parrish	72	Rodriguez	38	Singh Rawal, Batabyal	39	Vermesan, Pagani	15
Parthasarathy	52	Rogel-Salazar	11	Skubis, Wodarski, Wodarska, Sanchez-Gutierrez	36	Vidyasagar, Dwivedi, Singh, Balas	49
Patil, Kadam, Prasad, Shanmugasundaram, Pachghare	63	Romana	21	Skubis, Xerri, Adamovic	24		
Pearson	21	Romero-Torres, Brunet, Lalonde, Aubry	71	Smarandache, Khan	48	W	
Pirozzi	74	Rosak-Szyrocka, Wolniak, Grebski	24	Smith	12	Wallace	46
Poley	61	Roy	49	Sobowale, Tawak, Omitogun	19	Whig, Sharma, A. Elngar, Silva	31
Polyanin, Nazaikinskii	45	Roy, Biswas	56	Sohail, Soni, Mandavalli, Kumar, Siddharth Kashyap	42	Wilke, Emura, Lo	77
Poongodi, Devi, Prakash, Kumar	26	Roy, Tripathy, Kumar, Wu	35	Speight	9	Wingate	7
Pourahmadi, Dallakyan	81	Ruberg	77	Speight	9	Wingate	7
Prasad	66	Rustand, van Niekerk, Krainski, Rue	76	Spinolo, Ghigna	4	Wong	5
Prasad	66	Rădulescu	46	Stecula, Wolniak	20	Wong, Wen Chen, Ushio	5
Prasad	10	S		Stinson	42	Wu, Eldele, Chen, Pan, Wen, Li	13
Prasad, Kadam, Rohokale	29	Sah, Sulaiman, Tyagi	68	Stoica	57	Wu, Eldele, Chen, Pan, Wen, Li	12
Principe	9	Saini, Maleh, Rani, Khan	73	Sumi	11		
Pritchard, PMP, PMI-RMP, EVP	72	Samanta, Panja	62			X	
Pujo-Menjouet	46	Saneil	81			Xie	47
		Saoub	42			Xing, Chatfield	82
						Y	
						Yaagoob, Aslam, Dubey, Verma	7
						Yang, Wang	52
						Yarberry, Jr., Ladd	30

Ye	47
Yigitcanlar	14
Yigitcanlar	17
Yocco	18

Z

Zabeti	46
Zain, Allison	56
Zain, Allison	56
Zamanifar, Farhadi, Taherkordi	13
Zaydi, Maleh, Zaydi, Khourdifi	63
Zellner	53
Zenker	23
Zhang, Yang, Hao, Xiong	17
Zhao, Wang	59
Zheng	56
Zhou	77
Ziesche	19
Zoeller	8
Zuccolotto, Manisera, Sandri	75
Zürcher	58

.

Österlund	38
Øgødal	58

.

Żywiłek, Szymonik, Szymonik	66
---------------------------------------	----

