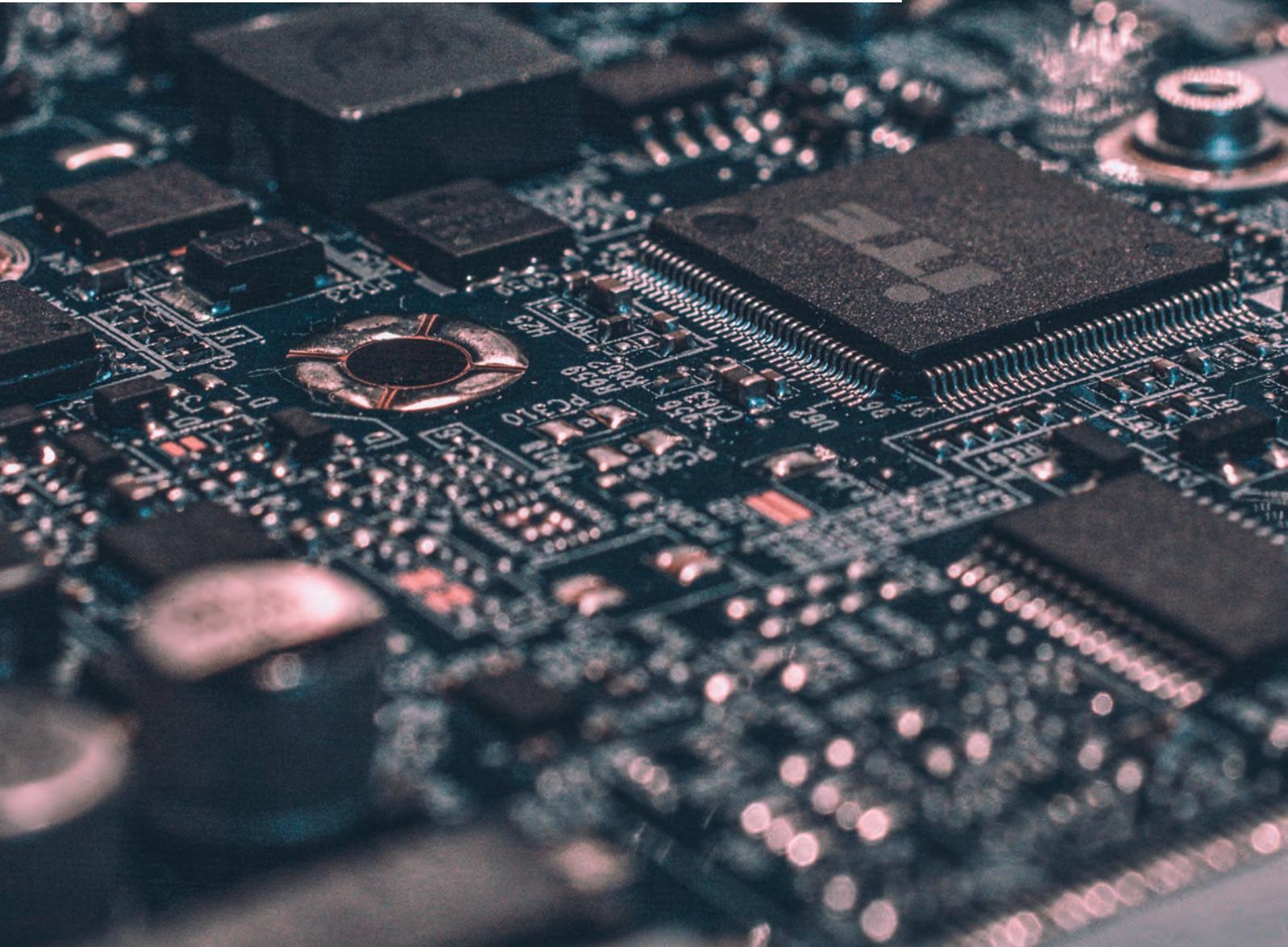


ROUTLEDGE

# Textbook Catalogue Computer Science & IT 2022



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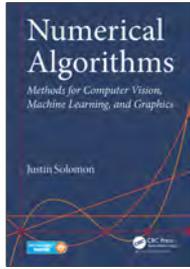
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## Numerical Algorithms

Methods for Computer Vision, Machine Learning, and Graphics



Justin Solomon, Princeton University, New Jersey, USA

This text presents a new approach to numerical analysis for modern computer scientists. Using examples from a broad base of computational tasks, including data processing, computational photography, and animation, the book introduces numerical modeling and algorithmic design from a practical standpoint and provides insight into the theoretical tools needed to support these skills. Comprehensive end-of-chapter exercises encourage critical thinking and build students' intuition while introducing extensions of the basic material.

A K Peters/CRC Press

**Market:** Computer Science

July 2015: 7 x 10: 400pp

Hb: 978-1-482-25188-3: **£69.99**

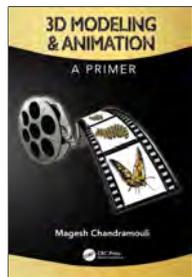
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eBook: 978-0-429-17161-1

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## 3D Modeling & Animation

A Primer



**Magesh Chandramouli**, Purdue University, Calumet, Hammond, Indiana, USA

While other books assume readers know these basics, '3D Modeling & Animation: A Primer' provides the fundamental building blocks in constructing new own worlds of art and 3D design.

CRC Press

**Market:** Games & Animation  
December 2021: 7 x 10: 368pp  
Hb: 978-1-032-13773-5: **£115.00**  
Pb: 978-1-498-76491-9: **£44.99**

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2nd Edition

## Discovering Computer Science

Interdisciplinary Problems, Principles, and Python Programming



**Jessen Havill**

*Series: Chapman & Hall/CRC Textbooks in Computing*

Discovering Computer Science: Interdisciplinary Problems, Principles, and Python Programming introduces computational problem solving as a vehicle of discovery in a wide variety of disciplines. With a principles-oriented introduction to computational thinking, the text provides a broader and deeper introduction to computer science than typical introductory programming books. Organized around interdisciplinary problem domains, rather than programming language features, each chapter guides students through sophisticated algorithmic and programming techniques. The author uses a spiral approach to

introduce Python language features in increasingly complex contexts as the book progresses.

Chapman and Hall/CRC

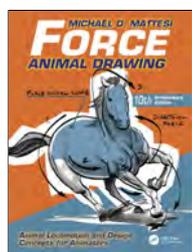
**Market:** Computer Science  
October 2020: 7 x 10: 542pp  
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Animal Locomotion and Design Concepts for Animators



**Mike Mattesi**, Director of the Entertainment Art Academy based in Southern California.

*Series: Force Drawing Series*

This second edition of Force: Animal Drawing Animal locomotion and design concepts for animators offers readers an enlarged and enhanced selection of images that apply FORCE to animals.

CRC Press

**Market:** Games and Animation  
August 2021: 8.25 x 11: 232pp  
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## Game Anim

Video Game Animation Explained



**Jonathan Cooper**

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CRC Press

**Market:** Games & Animation  
April 2021: 7 x 10: 350pp  
Hb: 978-0-367-70770-5: **£120.00**  
Pb: 978-0-367-70765-1: **£42.99**  
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## Writing for Animation, Comics, and Games



**Christy Marx**, Christy Marx is an interactive writer, story editor, series developer and game designer based in LA. Her credits include: Babylon 5; The Twilight Zone; He-Man; X-Men Evolution and Lord of the Rings.

This second edition of *Writing for Animation, Comics, and Games* expounds on the previous edition with more information on how to construct narratives for these three forms of visual storytelling media.

CRC Press

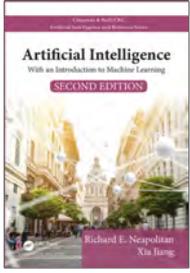
**Market:** Games and Animation  
August 2021: 7 x 10: 312pp  
Hb: 978-0-815-37938-6: **£115.00**  
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**Artificial Intelligence**

With an Introduction to Machine Learning



**Richard E. Neapolitan**, Northeastern Illinois University, Illinois, USA and **Xia Jiang**, University of Pittsburgh, Pennsylvania, USA

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

The first edition of this popular textbook, *Contemporary Artificial Intelligence*, provided an accessible and student friendly introduction to AI. This fully revised and expanded update retains the same accessibility and problem-solving approach, while providing new material and methods, including neural networks and deep learning. Suitable for undergraduate and beginning graduate students, this class-tested textbook provides students

with key AI methods and algorithms for solving challenging problems involving systems that behave intelligently in specialized domains such as medical and software diagnostics, financial decision making, speech and text recognition, genetic analysis, and more.

Chapman and Hall/CRC

**Market:** Computer Science & Engineering

May 2018; 7 x 10; 480pp

Hb: 978-1-138-50238-3: **£110.00**

Pb: 978-0-367-57164-1: **£42.99**

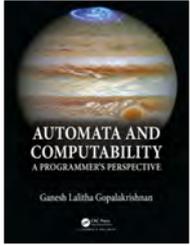
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Prev. Ed Hb: 978-1-439-84469-4

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## Automata and Computability

A Programmer's Perspective



**Ganesh Gopalakrishnan**

This class-tested textbook provides a comprehensive and accessible introduction to the theory of automata and computation. The author uses illustrations, engaging examples, and historical remarks to make the material interesting and relevant for students. It incorporates modern/handy ideas, such as derivative-based parsing and a Lambda reducer showing the universality of Lambda calculus. The book also shows how to sculpt automata by making the regular language conversion pipeline available through a simple command interface. A Jupyter notebook will accompany the book to feature code,

YouTube videos, and other supplements to assist instructors and students.

Chapman and Hall/CRC

**Market:** Computer Science & Engineering

February 2019: 8.25 x 11: 348pp

Hb: 978-1-138-55242-5: **£74.99**

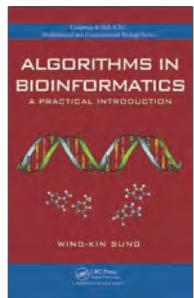
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## Algorithms in Bioinformatics

A Practical Introduction



Wing-Kin Sung, National University of Singapore

Series edited by Hershel Safer

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

This classroom-tested text provides an in-depth introduction to the algorithmic techniques applied in bioinformatics. For each topic, the author clearly details the biological motivation, precisely defines the corresponding computational problems, and includes detailed examples to illustrate each algorithm. The text covers basic molecular biology concepts, sequence similarity, the suffix tree, sequence databases, sequence and genome alignment, the phylogenetic tree, genome rearrangement, motif finding, the secondary structure of RNA, peptide sequencing, and population genetics. Supplementary

material is provided on the author's website and a solutions manual is available for qualifying instructors.

Chapman and Hall/CRC

November 2009: 6.14 x 9.21: 408pp

Hb: 978-1-420-07033-0: £79.99

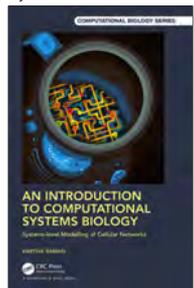
Pb: 978-0-367-65931-8: £42.99

eBook: 978-0-429-14149-2

\* For full contents and more information, visit: [www.routledge.com/9781420070330](http://www.routledge.com/9781420070330)

## An Introduction to Computational Systems Biology

Systems-Level Modelling of Cellular Networks



Karthik Raman, Indian Institute of Technology Madras, Chennai

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

The main objective of this book is to deliver a comprehensive and insightful account of applying mathematical modelling approaches to very large biological systems and networks, a fundamental aspect of computational systems biology. Several key modelling paradigms will be discussed in detail. The area is itself highly multi-disciplinary, and the audience will therefore include biologists, engineers, computer scientists, mathematicians and others. The idea is to present a sufficiently compelling account of the modelling strategies, but at the same time, retaining simplicity so as to appeal to those from less

quantitative fields.

Chapman and Hall/CRC

Market: Computer Science & Engineering

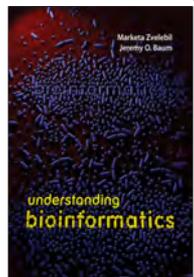
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eBook: 978-0-429-48695-1

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## Understanding Bioinformatics



Marketa J Zvelebil, The Institute of Cancer Research, UK and Jeremy O. Baum

'Congratulations on a fine book! I do not think I have seen such a comprehensive text on bioinformatics algorithms and techniques before.' - Jaap Heringa, *Vrije Universiteit, the Netherlands*

Suitable for advanced undergraduates and postgraduates, *Understanding Bioinformatics* provides a definitive guide to this vibrant and evolving discipline. This book takes a conceptual approach and guides the reader from first principles through to an understanding of the computational techniques and the key algorithms. *Understanding Bioinformatics* is an invaluable companion for students from their first encounter with the

subject through to more advanced studies.

Garland Science

Market: Bioinformatics

September 2007: 8.62 x 10.8: 796pp

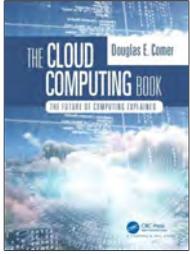
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## The Cloud Computing Book

The Future of Computing Explained



**Douglas Comer**

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Chapman and Hall/CRC

**Market:** Cloud Computing

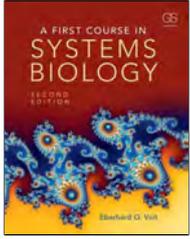
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eBook: 978-1-003-14750-3

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2nd Edition

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Eberhard Voit, Georgia Institute of Technology, Atlanta, USA

This book is an introduction for advanced undergraduate and graduate students to the growing field of systems biology. The book begins with the fundamentals of modelling, then reviews features of the molecular inventories that bring biological systems to life and discusses case studies that represent some of the frontiers in systems biology and synthetic biology. In this way, it provides the reader with a comprehensive background and access to methods for executing standard systems biology tasks, understanding the modern literature, and launching into specialized courses or projects that address biological questions

with theoretical and computational means.

Garland Science

**Market:** Systems Biology

September 2017: 8.62 x 10.8: 480pp

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eBook: 978-0-203-70226-0

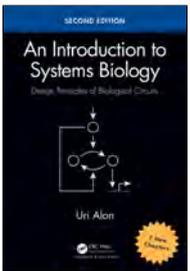
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Design Principles of Biological Circuits



Uri Alon

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

Written for students and researchers in systems biology, the second edition of this best-selling textbook continues to offer a clear presentation of design principles that govern the structure and behavior of biological networks. It highlights simple, recurring circuit elements that make up the regulation of cells and tissues. Rigorously classroom-tested, the book contains new additions and revisions for better flow. This edition includes seven new chapters on exciting advances made in the last decade, and over double the number of exercises.

Chapman and Hall/CRC

**Market:** Bioinformatics

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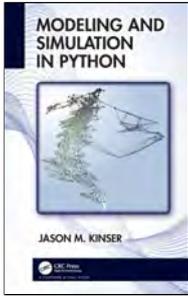
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eBook: 978-0-429-28332-1

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## Modeling and Simulation in Python



Jason M. Kinser, George Mason University, Fairfax, VA USA

*Modeling and Simulation in Python* introduces fundamental computational modeling techniques that are used in a variety of science and engineering disciplines. It emphasizes algorithmic thinking skills using different computational environments, and includes a number of interesting examples, including Shakespeare, movie databases, virus spread, and Chess. Readers do not have to be Python experts, but a working knowledge of the language is required. Students who want to know more about the foundations of modeling and simulation will find this an educational and foundational resource.

Chapman and Hall/CRC

Market: Computer Science

May 2022: 7 x 10: 332pp

Hb: 978-1-032-11648-8: £74.99

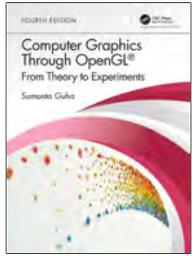
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4th Edition

**Computer Graphics Through OpenGL®**

From Theory to Experiments



**Sumanta Guha**, Asian Institute of Technology, Thailand

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Chapman and Hall/CRC

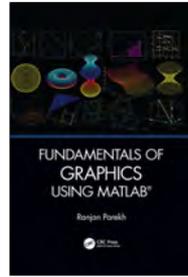
**Market:** Computer Science & Engineering

July 2022: 8.25 x 11: 712pp

Hb: 978-1-032-25698-6: **£110.00**

eBook: 978-1-003-28745-2

Prev. Ed Hb: 978-1-138-61264-8

\* For full contents and more information, visit: [www.routledge.com/9781032256986](http://www.routledge.com/9781032256986)**Fundamentals of Graphics Using MATLAB****Ranjan Parekh**

This book introduces fundamental concepts and principles of 2D and 3D graphics and illustrates the use of MATLAB for this purpose. The objectives are to demonstrate how MATLAB can be used to solve graphics problems and to help the reader gain an in-depth knowledge about the subject matter through visual representations and practical examples.

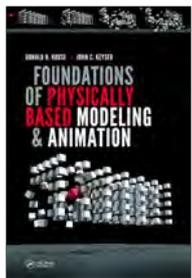
CRC Press

**Market:** BC

June 2021: 7 x 10: 428pp

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eBook: 978-0-429-19656-0

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Physically based modeling and animation is used to drive the automatic generation of motion and geometry for computer animation and visual effects. This book captures the foundations of the field, beginning with the simple dynamics of a single bouncing ball and progressing through massive particle systems, flocking systems, deformable objects, rigid bodies, and fluids. Throughout the book, the authors use an integrated approach to the elaboration of the related physical, mathematical, algorithmic, numerical, and software design issues underlying these domains.

A K Peters/CRC Press

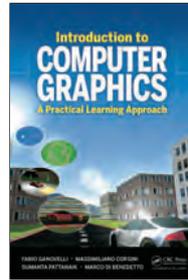
December 2016: 7 x 10: 404pp

Hb: 978-1-482-23460-2: **£120.00**Pb: 978-0-367-65820-5: **£42.99**

eBook: 978-1-315-37314-0

\* For full contents and more information, visit: [www.routledge.com/9781482234602](http://www.routledge.com/9781482234602)**Introduction to Computer Graphics**

A Practical Learning Approach

**Fabio Ganovelli**, Institute of Information and ScienceTechnologies, CNR, Pisa, Italy, **Massimiliano Corsini**, Institute of Information and Science Technologies, CNR, Pisa, Italy,**Sumanta Pattanaik**, University of Central Florida, Orlando, USA and **Marco Di Benedetto**, Institute of Information and

Science Technologies, CNR, Pisa, Italy

This text shows step by step how to implement computer graphics concepts and theory with WebGL using the *EnvyMyCar* (NVMC) framework as a consistent example throughout the text. This practical approach leads readers to draw the elements and effects needed to ultimately create a visually pleasing car racing game. The book explains how to handle 3D geometric transformations, texturing, complex lighting effects, and more.

The code is available online.

Chapman and Hall/CRC

**Market:** Computer Graphics

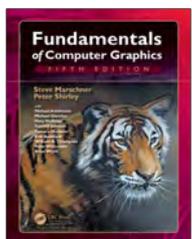
October 2014: 6 x 9: 422pp

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eBook: 978-0-429-16205-3

\* For full contents and more information, visit: [www.routledge.com/9781439852798](http://www.routledge.com/9781439852798)

5th Edition

**Fundamentals of Computer Graphics****Steve Marschner**, Cornell University, Ithaca, New York, USA and **Peter Shirley**

The fifth edition of *Fundamentals of Computer Graphics* continues to provide an outstanding and comprehensive introduction to basic computer graphic technology and theory. It retains an informal and intuitive style while improving precision, consistency, and completeness of material, allowing aspiring and experienced graphics programmers to better understand and apply foundational principles to the development of efficient code in creating film, game, or web designs.

A K Peters/CRC Press

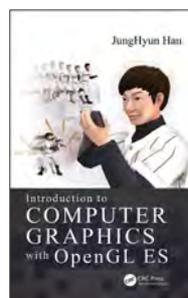
**Market:** Computer Science & Engineering

September 2021: 716pp

Hb: 978-0-367-50503-5: **£110.00**

eBook: 978-1-003-05033-9

Prev. Ed Hb: 978-1-482-22939-4

\* For full contents and more information, visit: [www.routledge.com/9780367505035](http://www.routledge.com/9780367505035)**Introduction to Computer Graphics with OpenGL ES****JungHyun Han**, Korea University, Seoul

OpenGL ES is the standard graphics API used for mobile and embedded systems. Despite its widespread use, there is a lack of material that addresses the balance of both theory and practice in OpenGL ES. JungHyun Han's *Introduction to Computer Graphics with OpenGL ES* achieves this perfect balance. Han's depiction of theory and practice illustrates how 3D graphics fundamentals are implemented. Theoretical or mathematical details around real-time graphics are also presented in a way that allows readers to quickly move on to practical programming. Additionally, this book presents OpenGL ES and shader code on many topics. Industry professionals, as well as, students in Computer Graphics and Game Programming courses will find this book of importance.

CRC Press

**Market:** Computer Science & Engineering

June 2018: 6.14 x 9.21: 340pp

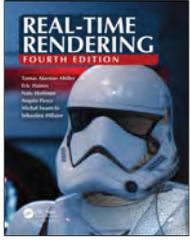
Hb: 978-1-498-74892-6: **£69.99**Pb: 978-0-367-78118-7: **£42.99**

eBook: 978-1-498-74893-3

\* For full contents and more information, visit: [www.routledge.com/9781498748926](http://www.routledge.com/9781498748926)

4th Edition

## Real-Time Rendering, Fourth Edition



Tomas Akenine-Moller , Eric Haines and Naty Hoffman

Thoroughly updated, this fourth edition focuses on modern techniques used to generate synthetic three-dimensional images in a fraction of a second. With the advent of programmable shaders, a wide variety of new algorithms have arisen and evolved over the past few years. This edition discusses current, practical rendering methods used in games and other applications. It also presents a solid theoretical framework and relevant mathematics for the field of interactive computer graphics, all in an approachable style. New to this edition: new chapter on VR and AR as well as expanded coverage of Visual

Appearance, Advanced Shading, Global Illumination, and Curves and Curved Surfaces.

A K Peters/CRC Press

**Market:** Games and Animation

August 2018: 1198pp

Hb: 978-1-138-62700-0: **£74.99**

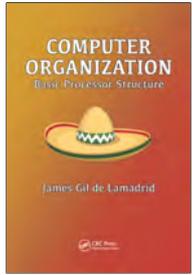
eBook: 978-0-429-22540-6

Prev. Ed Hb: 978-1-568-81424-7

\* For full contents and more information, visit: [www.routledge.com/9781138627000](http://www.routledge.com/9781138627000)

## Computer Organization

### Basic Processor Structure



**James Gil de Lamadrid**, Bowie State University, MD, USA

This class-tested textbook is based on the author's decades of teaching the topic to both undergraduate and graduate students. The main questions the book tries to answer are: how is a processor structured, and how does the processor function, in a general-purpose computer? Focusing solely on the information that is essential to the field, this text provides fundamental concepts and examples on computer organization. Using a top-down approach, the text begins at digital circuitry level, and works up to the machine language level. Numerous architectures are also covered, including key design issues.

Chapman and Hall/CRC

**Market:** Computer Science & Engineering

February 2018: 6.14 x 9.21: 394pp

Hb: 978-0-815-36246-3: **£180.00**

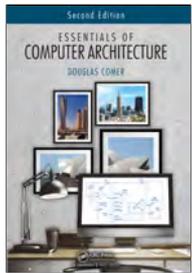
Pb: 978-1-498-79951-5: **£68.99**

eBook: 978-1-315-27757-8

\* For full contents and more information, visit: [www.routledge.com/9780815362463](http://www.routledge.com/9780815362463)

### 2nd Edition

## Essentials of Computer Architecture



**Douglas Comer**

This easy to read textbook provides an introduction to computer architecture, while focusing on the essential aspects of hardware that programmers need to know. The topics are explained from a programmer's point of view, and the text emphasizes consequences for programmers. Divided in five parts, the book covers the basics of digital logic, gates, and data paths, as well as the three primary aspects of architecture: processors, memories, and I/O systems. The book also covers advanced topics of parallelism, pipelining, power and energy, and performance. A hands-on lab is also included. The second edition contains three new chapters as well as changes and updates throughout.

Chapman and Hall/CRC

**Market:** Information Technology

January 2017: 535pp

Hb: 978-1-138-62659-1: **£79.99**

Pb: 978-0-367-57395-9: **£42.99**

eBook: 978-1-315-22626-2

\* For full contents and more information, visit: [www.routledge.com/9781138626591](http://www.routledge.com/9781138626591)

## Handbook of Computer Programming with Python

Edited by **Dimitrios Xanthidis**, **Christos Manolas**, Ravensbourne University London, UK, **Ourania Koutzampasopoulou Xanthidou** and **Han-I Wang**

*Handbook of Computer Programming with Python* provides a hands-on experience based on the underlying topics, and assist students and faculty members in developing their algorithmic thought process and developing programs for given computational problems. It can be also used by professionals who possess the necessary theoretical and computational thinking background but are presently making their transition to Python. This handbook will benefit computer science, information systems, and information technology students, or anyone who is involved in computer programming, data analytics, HCI-GUI, and related disciplines, at an entry-to-intermediate level.

Chapman and Hall/CRC

**Market:** Programming

August 2022: 7 x 10: 610pp

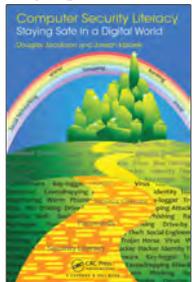
Hb: 978-0-367-68777-9: **£89.99**

eBook: 978-1-003-13901-0

\* For full contents and more information, visit: [www.routledge.com/9780367687779](http://www.routledge.com/9780367687779)

## Computer Security Literacy

Staying Safe in a Digital World



**Douglas Jacobson**, Iowa State University, Ames, Iowa, USA  
Iowa State University, Ames, USA and **Joseph Idziorek**, Iowa State University, Ames, Iowa, USA Iowa State University, Ames, USA

Helping average computer users make sound security decisions, this book focuses on practical security topics users are likely to encounter on a regular basis so that they better understand the function and impact of security in everyday life. The authors offer practical computer security knowledge on a range of topics, including social engineering, email, and online shopping, and present best practices pertaining to passwords, wireless networks, and suspicious emails. They also explain how security mechanisms, such as antivirus software and firewalls, protect

against the threats of hackers and malware.

Chapman and Hall/CRC

**Market:** Computer Science

November 2012: 6.14 x 9.21: 368pp

Hb: 978-1-138-43687-9: **£170.00**

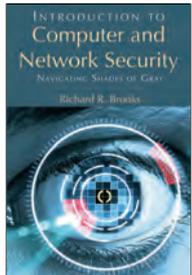
Pb: 978-1-439-85618-5: **£49.99**

eBook: 978-0-429-10812-9

\* For full contents and more information, visit: [www.routledge.com/9781439856185](http://www.routledge.com/9781439856185)

## Introduction to Computer and Network Security

Navigating Shades of Gray



**Richard R. Brooks**, Clemson University, South Carolina, USA

Combining hands-on work with technical overviews, this text integrates security analysis into a technical computing curriculum. It educates students on security issues, such as side-channel attacks, and deepens their understanding of how computers and networks work. The book presents basic principles and concepts, along with examples of current threats to illustrate how the principles can either enable or neutralize exploits. Classroom-tested projects prompt students to stage exploits and choose countermeasures to neutralize the attacks. Many ancillaries are available upon qualifying course adoption.

Chapman and Hall/CRC

**Market:** IT Security

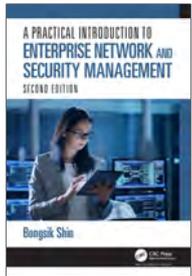
August 2013: 6 x 9: 320pp

Hb: 978-1-439-86071-7: **£74.99**

\* For full contents and more information, visit: [www.routledge.com/9781439860717](http://www.routledge.com/9781439860717)

2nd Edition

## A Practical Introduction to Enterprise Network and Security Management



Bongsik Shin

A Practical Introduction to Enterprise Network and Security Management is written for people who are self-studying or studying information systems or computer science in the classroom setting. The book provides a balanced understanding of introductory and fairly advanced subjects on both computer networking and cybersecurity. Although much focus is to teach technical concepts, managerial issues related to enterprise network and security planning and design are explained from the practitioner's perspective.

Auerbach Publications

Market: IT - Network Security

July 2021: 7 x 10: 445pp

Hb: 978-0-367-64251-8: £99.99

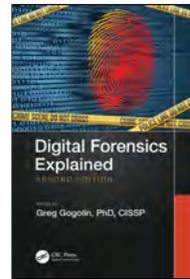
Pb: 978-1-032-04802-4: £44.99

eBook: 978-1-003-12369-9

\* For full contents and more information, visit: [www.routledge.com/9781032048024](http://www.routledge.com/9781032048024)

2nd Edition

## Digital Forensics Explained



Edited by Greg Gogolin, Ferris State University, Big Rapids, Michigan, USA

Digital Forensics Explained, 2nd edition, covers the full life cycle of conducting a mobile and computer digital forensic examinations including planning and performing an investigation as well as report writing and testifying. Case reviews in corporate, civil and criminal situations are described from both prosecution and defence perspectives. The book draws from years of experience in local, state, federal and international environments and highlights the challenges presented from deficient cyber security practices.

CRC Press

Market: Digital Forensics

April 2021: 6.14 x 9.21: 254pp

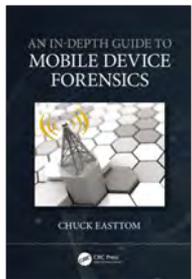
Hb: 978-0-367-50281-2: £120.00

Pb: 978-0-367-50343-7: £48.99

eBook: 978-1-003-04935-7

\* For full contents and more information, visit: [www.routledge.com/9780367503437](http://www.routledge.com/9780367503437)

## An In-Depth Guide to Mobile Device Forensics



Chuck Easttom

Mobile devices are ubiquitous. Therefore, mobile device forensics is absolutely critical. Whether it is civil or criminal investigations, being able to extract evidence from a mobile device is critical. This book covers technical details of mobile devices and transmissions as well as forensic methods for extracting evidence. There are books on specific issues like Android Forensics or iOS forensics. But there is not currently a book that covers all the topics this book will. Furthermore, mobile device forensics is the most common topic I am asked to teach to law enforcement, it is such a critical skill.

CRC Press

Market: Cybersecurity

October 2021: 6.14 x 9.21: 248pp

Hb: 978-0-367-63298-4: £110.00

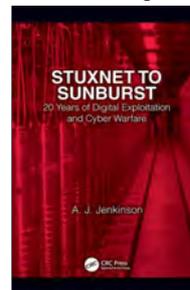
Pb: 978-0-367-63300-4: £41.99

eBook: 978-1-003-11871-8

\* For full contents and more information, visit: [www.routledge.com/9780367633004](http://www.routledge.com/9780367633004)

## Stuxnet to Sunburst

20 Years of Digital Exploitation and Cyber Warfare



Andrew Jenkinson

This book covers how, from digital eavesdropping and manipulation of the agencies to Stuxnet the world's first use of digital code and digital certificates for offensive purposes against the Iranians and their Nuclear Power facilities to cause collateral damage. All the way to today's Solarwinds attack, codenamed Sunburst, where the same methods of exploitation and manipulation originally used by the agencies are now being used against companies, and governments to devastating effect.

CRC Press

Market: Cybersecurity

October 2021: 6.14 x 9.21: 194pp

Hb: 978-1-032-06849-7: £99.99

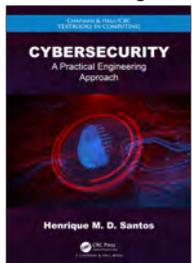
Pb: 978-1-032-06850-3: £29.99

eBook: 978-1-003-20414-5

\* For full contents and more information, visit: [www.routledge.com/9781032068503](http://www.routledge.com/9781032068503)

## Cybersecurity

A Practical Engineering Approach



Henrique M. D. Santos

Series: Chapman &amp; Hall/CRC Textbooks in Computing

*Cybersecurity: A Practical Engineering Approach* introduces the implementation of a secure cyber architecture, beginning with the identification of security risks. It then builds solutions to mitigate risks by considering the technological justification of the solutions as well as their efficiency. The process follows an engineering process model. Each module builds on a subset of the risks, discussing the knowledge necessary to approach a solution, followed by the security control architecture design and the implementation. The modular approach allows students to focus on more manageable problems, making the learning

process simpler and more attractive.

Chapman and Hall/CRC

Market: Computer Science &amp; Engineering

April 2022: 7 x 10: 340pp

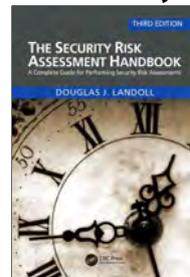
Hb: 978-0-367-25242-7: £59.99

eBook: 978-0-429-28674-2

\* For full contents and more information, visit: [www.routledge.com/9780367252427](http://www.routledge.com/9780367252427)

3rd Edition

## The Security Risk Assessment Handbook



Douglas Landoll, Lantego, LLC, Austin, Texas, USA

This edition has expended coverage essential topics such as threat analysis, data gathering, risk analysis, and risk assessment methods and added coverage of new topics essential for current assessment projects (e.g., cloud security, supply chain management, security risk assessment methods). This edition includes detailed guidance on gathering data and analyzing over 200 administrative, technical, and physical controls using the RIOT data gathering method; introduces the RIOT FRAME (risk assessment method), includes hundreds of tables, over 70 new diagrams and figures, over 80 exercises, and provides an analysis of many of the current popular security risk assessment methods.

CRC Press

Market: IT Security

September 2021: 7 x 10: 512pp

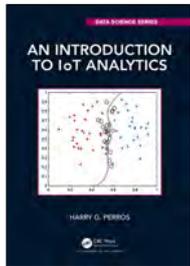
Hb: 978-0-367-54747-9: £120.00

Pb: 978-1-032-04165-0: £57.99

eBook: 978-1-003-09044-1

\* For full contents and more information, visit: [www.routledge.com/9781032041650](http://www.routledge.com/9781032041650)

## An Introduction to IoT Analytics



Harry G. Perros

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

This book covers techniques that can be used to analyze data from IoT sensors and also addresses questions regarding the performance of an IoT system. It strikes a balance between practice and theory so that one can learn how to apply these tools in practice with a good understanding of their inner workings. It is an introductory book for readers that have no familiarity with these techniques. The techniques presented in the book come from the areas of Machine Learning, Statistics, and Operations Research.

Chapman and Hall/CRC

Market: Internet of Things

March 2021: 7 x 10: 372pp

Hb: 978-0-367-68782-3: £105.00

Pb: 978-0-367-68631-4: £42.99

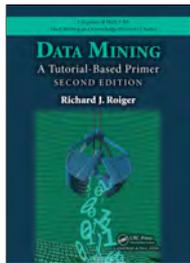
eBook: 978-1-003-13904-1

\* For full contents and more information, visit: [www.routledge.com/9780367686314](http://www.routledge.com/9780367686314)

2nd Edition

## Data Mining

A Tutorial-Based Primer



Richard J. Roiger

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

This textbook provides a tutorial-based introduction to data mining with a focus on model building and testing, as well as on interpreting and validating results. The book follows the format of the first edition, but with updates and additions throughout. A new chapter on preprocessing and data visualization has been added, along with a new, running case study. The new edition uses the Weka toolkit. Since Weka contains several algorithms for data preprocessing, data visualization, classification, clustering, and association rule

mining, the focus of the second edition is on students gaining a firm understanding of a select group of fundamental data mining algorithms.

Chapman and Hall/CRC

Market: Computer Science & Engineering

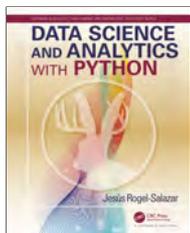
December 2016: 7 x 10: 529pp

Pb: 978-1-498-76397-4: £56.99

eBook: 978-1-315-38258-6

\* For full contents and more information, visit: [www.routledge.com/9781498763974](http://www.routledge.com/9781498763974)

## Data Science and Analytics with Python



Jesus Rogel-Salazar, Imperial College London, UK

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

The book is designed for practitioners in data science and data analytics in both academic and business environments. The aim is to present the reader with the main concepts used in data analytics using tools developed in Python, such as SciKit Learn, Pandas, Numpy, etc. The use of Python is of particular benefit given its recent popularity in the data science community, and the book can be used by seasoned programmers and newcomers alike.

Chapman and Hall/CRC

Market: Computer Science & Engineering

August 2017: 6 x 9: 400pp

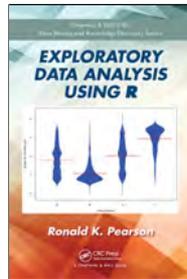
Hb: 978-1-138-04317-6: £105.00

Pb: 978-1-498-74209-2: £48.99

eBook: 978-1-498-74211-5

\* For full contents and more information, visit: [www.routledge.com/9781498742092](http://www.routledge.com/9781498742092)

## Exploratory Data Analysis Using R



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

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

This textbook introduces exploratory data analysis (EDA) and covers the range of interesting features we can expect to find in data. The book also explores the practical mechanics of using R to do EDA. Based on the author's course at the University of Connecticut, the book assumes no prior exposure to data analysis or programming, and is designed to be as non-mathematical as possible. Exercises are included throughout, and a Solutions Manual will be available. The author will also provide a supplemental R package through the Comprehensive R Archive Network that will include implementations of some of the

features in this book, along with data examples, tools, and datasets.

Chapman and Hall/CRC

Market: Computer Science & Engineering

September 2018: 6.14 x 9.21: 562pp

Hb: 978-1-138-48060-5: £140.00

Pb: 978-0-367-57156-6: £42.99

eBook: 978-1-315-38211-1

Pack - Book and Ebook: 978-1-498-73023-5: £56.99

\* For full contents and more information, visit: [www.routledge.com/9781498730235](http://www.routledge.com/9781498730235)

## Text Analytics

An Introduction to the Science and Applications of Unstructured Information Analysis



John Atkinson-Abutridy

*Text Analytics: An Introduction to the Science and Applications of Unstructured Information Analysis* is a concise and accessible introduction to the science and applications of text analytics (or text mining), which enables automatic knowledge discovery from unstructured information sources, both for industrial and academic purposes. The book introduces the main concepts, models, and computational techniques that enable the reader to solve real decision-making problems arising from textual and/or documentary sources.

Chapman and Hall/CRC

Market: Computer Science

April 2022: 6.14 x 9.21: 258pp

Hb: 978-1-032-24979-7: £110.00

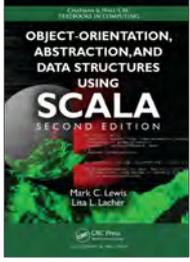
Pb: 978-1-032-24526-3: £42.99

eBook: 978-1-003-28099-6

\* For full contents and more information, visit: [www.routledge.com/9781032245263](http://www.routledge.com/9781032245263)

2nd Edition

## Object-Orientation, Abstraction, and Data Structures Using Scala



Mark C. Lewis, Trinity University, San Antonio, Texas, USA  
and Lisa L. Lacher, University of Houston, Texas, USA

*Series: Chapman & Hall/CRC Textbooks in Computing*

Mark Lewis' *Introduction to the Art of Programming Using Scala* was the first textbook to use Scala for introductory CS courses. Scala continues to gain significance among professional developers, and a new edition of this popular textbook is needed to update the book from Scala 2.9 to Scala 2.12. The second edition is divided into two textbooks. The second volume is designed for CS2 courses and focuses on data structures. The book is significantly updated throughout to bring the book and the code up to date for Scala 2.11 and 2.12.

Chapman and Hall/CRC

**Market:** Computer Science & Engineering

December 2016; 7 x 10; 660pp

Hb: 978-1-138-40218-8: **£170.00**

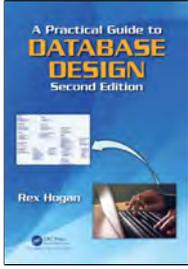
Pb: 978-1-498-73216-1: **£84.99**

eBook: 978-1-498-73218-5

\* For full contents and more information, visit: [www.routledge.com/9781498732161](http://www.routledge.com/9781498732161)

2nd Edition

## A Practical Guide to Database Design



Rex Hogan

Fully updated and expanded from the previous edition, A Practical Guide to Database Design, Second Edition, is intended for those involved in the design or development of a database system or application. It begins by focusing on how to create a logical data model where data is stored "where it belongs." Next, data usage is reviewed to transform the logical model into a physical data model that will satisfy user performance requirements. Finally, it describes how to use various software tools to create user interfaces to review and update data in a database.

Chapman and Hall/CRC

**Market:** Information Technology

March 2018: 7 x 10: 430pp

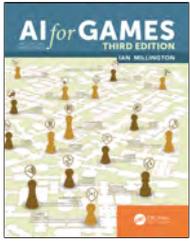
Hb: 978-1-138-57806-7: £84.99

Pb: 978-0-367-57193-1: £42.99

eBook: 978-1-351-26548-5

\* For full contents and more information, visit: [www.routledge.com/9781138578067](http://www.routledge.com/9781138578067)

3rd Edition

**AI for Games**

Ian Millington, Gwent, UK

AI is an integral part of every video game. This book helps professionals keep up with the constantly evolving technological advances in the fast growing game industry and equips students with up-to-date information they need to jumpstart their careers. This revised and updated Third Edition includes new techniques, algorithms, data structures and representations needed to create powerful AI in games.

CRC Press

March 2019: 1030pp

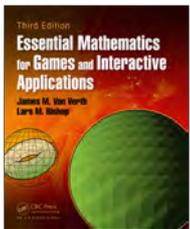
Hb: 978-1-138-48397-2: **£120.00**Pb: 978-0-367-67056-6: **£42.99**

eBook: 978-1-351-05330-3

Prev. Ed Hb: 978-0-123-74731-0

\* For full contents and more information, visit: [www.routledge.com/9781138483972](http://www.routledge.com/9781138483972)

3rd Edition

**Essential Mathematics for Games and Interactive Applications**

James M. Van Verth, Software Engineer, Google and Lars M. Bishop, Engineer, Handheld Developer Technologies Group, NVIDIA

This updated book provides a conceptual understanding of the mathematics needed to create 3D games as well as a practical understanding of how these mathematical bases actually apply to games and graphics. It includes not only the theoretical mathematical background but also many examples of how the concepts are used to affect how a game looks and plays. This third edition reflects the increased use of shader graphics pipelines and updates the material on real-time graphics with

coverage of more realistic materials and lighting.

A K Peters/CRC Press

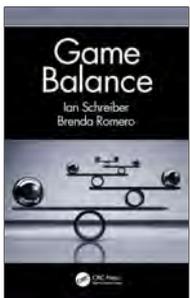
Market: Computer Game Development

August 2015: 0pp

Hb: 978-1-482-25092-3: **£99.99**

eBook: 978-0-429-19623-2

Prev. Ed Hb: 978-0-123-74297-1

\* For full contents and more information, visit: [www.routledge.com/9781482250923](http://www.routledge.com/9781482250923)**Game Balance**

Ian Schreiber and Brenda Romero

Within the field of game design, game balance can best be described as a black art. It is the process by which game designers make a game simultaneously fair for players while providing them just the right amount of difficulty to be both exciting and challenging without making the game entirely predictable. This involves a combination of mathematics, psychology, and occasionally other fields such as economics and game theory. Throughout the book, relevant topics on the use of spreadsheet programs will be included in each chapter. The book therefore doubles as a useful reference on Microsoft Excel, Google Spreadsheets, and other spreadsheet programs and their uses for game designers.

CRC Press

Market: Games &amp; Animation

August 2021: 6.14 x 9.21: 806pp

Hb: 978-1-032-03400-3: **£115.00**Pb: 978-1-498-79957-7: **£52.99**

eBook: 978-1-498-79958-4

\* For full contents and more information, visit: [www.routledge.com/9781498799577](http://www.routledge.com/9781498799577)

4th Edition

**Game Design Workshop**

A Playcentric Approach to Creating Innovative Games



Tracy Fullerton, University of Southern California, Los Angeles, USA

Discover an exercise-driven, non-technical approach to game design, without the need for programming or artistic expertise with Game Design Workshop, Fourth Edition.; ; Tracy Fullerton demystifies the creative process with clear and accessible analysis of the formal and dramatic systems of game design. Using examples of popular games, illustrations of design techniques, and refined exercises to strengthen your understanding of how game systems function and give you the skills and tools necessary to create a compelling and engaging game.; ;

A K Peters/CRC Press

Market: Computer Game Development

August 2018: 556pp

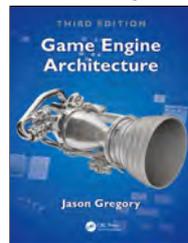
Hb: 978-1-138-09880-0: **£125.00**Pb: 978-1-138-09877-0: **£56.99**

eBook: 978-1-315-10430-0

Prev. Ed Pb: 978-1-482-21716-2

\* For full contents and more information, visit: [www.routledge.com/9781138098770](http://www.routledge.com/9781138098770)

3rd Edition

**Game Engine Architecture**

Jason Gregory

In this new and improved third edition of the highly popular Game Engine Architecture, Jason Gregory draws on his nearly two decades of experience at Midway, Electronic Arts and Naughty Dog to present both the theory and practice of game engine software development. In this book, the broad range of technologies and techniques used by AAA game studios are each explained in detail, and their roles within a real industrial-strength game engine are illustrated

A K Peters/CRC Press

Market: Game Programming and Game Technology

August 2018: 1240pp

Hb: 978-1-138-03545-4: **£74.99**

eBook: 978-1-315-26784-5

Prev. Ed Hb: 978-1-466-56001-7

\* For full contents and more information, visit: [www.routledge.com/9781138035454](http://www.routledge.com/9781138035454)

2nd Edition

**Game Usability**

Advice from the Experts for Advancing UX Strategy and Practice in Videogames



Edited by Katherine Isbister and Celia Hodent

This book introduces the basics in game usability and overall game UX mindset and techniques, as well as looking at current industry best practices and trends. Fully updated for its second edition, it includes practical advice on how to include usability in already tight development timelines, and how to advocate for UX and communicate results to higher-ups effectively. This book will be vital reading for all professional game developers and game UX advocates, as well as those students aspiring to work in game development and game UX.

CRC Press

Market: Game Design

March 2022: 7 x 10: 452pp

Hb: 978-0-367-62424-8: **£120.00**Pb: 978-0-367-61992-3: **£42.99**

eBook: 978-1-003-10938-9

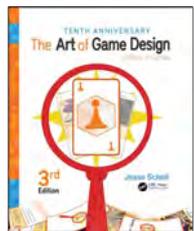
Prev. Ed Pb: 978-0-123-74447-0

\* For full contents and more information, visit: [www.routledge.com/9780367619923](http://www.routledge.com/9780367619923)

3rd Edition

## The Art of Game Design

A Book of Lenses



**Jesse Schell**, Carnegie Mellon University and Schell Games, Pittsburgh, Pennsylvania, USA

Presents 100+ sets of questions, or different lenses, for viewing a game's design. Written by one of the world's top game designers, this book describes the deepest and most fundamental principles of game design, demonstrating how tactics used in board, card, and athletic games also work in video games. It provides practical instruction on creating world-class games that will be played again and again. *New to this edition:* many great examples from new VR and AR platforms as well as examples from modern games such as Uncharted 4 and The

Last of Us, Free to Play games, hybrid games, transformational games, and more.

A K Peters/CRC Press

**Market:** Computer Game Development

August 2019: 654pp

Hb: 978-1-138-63209-7: **£120.00**

Pb: 978-1-138-63205-9: **£52.99**

eBook: 978-1-315-20843-5

Prev. Ed Pb: 978-1-466-59864-5

\* For full contents and more information, visit: [www.routledge.com/9781138632059](http://www.routledge.com/9781138632059)

## The Game Production Toolbox



**Heather Maxwell Chandler**

The Reverse Design series looks at all of the design decisions that went into classic games. This is the third installment in the Reverse Design series, looking at Super Mario World. Written in a readable format; this game breaks down nicely into relatively short, separate sections. Reverse Design: Super Mario World is broken down into four sections with the final section a guide for level-by-level. The first three sections look at design history, cadences, skill and themes. The ideal experience of this Reverse Design is for you, the reader, to play each level as you read its analysis.

CRC Press

**Market:** Games & Animation

April 2020: 7 x 10: 320pp

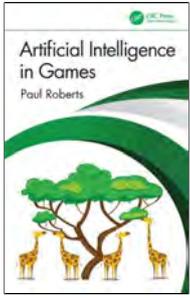
Hb: 978-1-138-34171-5: **£115.00**

Pb: 978-1-138-34170-8: **£61.99**

eBook: 978-0-429-44002-1

\* For full contents and more information, visit: [www.routledge.com/9781138341708](http://www.routledge.com/9781138341708)

## Artificial Intelligence in Games



Paul Roberts

This book covers all the necessary topics that a professional game AI programmer needs to know, from math and steering behaviours to terrain analysis, pathfinding, decision making, and more. Written to be easily accessible, each topic is accompanied by an example game, where the reader can add their own code to see the effects their changes have. This book will be suitable for students and aspiring games programmers looking to gain a grounding in game AI techniques.

CRC Press

**Market:** Game AI

August 2022: 6.14 x 9.21: 310pp

Hb: 978-1-032-30595-0: **£120.00**

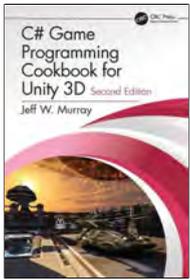
Pb: 978-1-032-03322-8: **£49.99**

eBook: 978-1-003-30583-5

\* For full contents and more information, visit: [www.routledge.com/9781032033228](http://www.routledge.com/9781032033228)

2nd Edition

## C# Game Programming Cookbook for Unity 3D



Jeff W. Murray, Psychic Parrot Games, Ottawa, Ontario, Canada

This second edition of C# Game Programming Cookbook for Unity expounds upon the first with more details and techniques. With a fresh array of chapters, updated C# code and examples, Jeff W. Murray's book will help the reader understand structured game development in Unity unlike ever before.

New to this edition is a step-by-step tutorial for building a 2D infinite runner game from the framework and scripts included in the book. The book contains a flexible and reusable framework in C# suitable for all game types. From game state handling to audio mixers to asynchronous scene loading, the focus of this book is building a reusable structure to take care of many of the

most used systems.

CRC Press

**Market:** Computer Science

March 2021: 7 x 10: 316pp

Hb: 978-0-367-32170-3: **£105.98**

Pb: 978-0-367-32164-2: **£52.99**

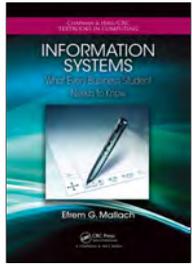
eBook: 978-0-429-31713-2

Prev. Ed Pb: 978-1-466-58140-1

\* For full contents and more information, visit: [www.routledge.com/9780367321642](http://www.routledge.com/9780367321642)

## Information Systems

What Every Business Student Needs to Know



**Efreem G. Mallach**, Rhode Island College, Providence, and  
Kea Company, New Bedford, Massachusetts, USA

*Series: Chapman & Hall/CRC Textbooks in Computing*

Most information systems (IS) texts overwhelm business students with overly technical information they may not need in their careers. This textbook takes a new approach to the required IS course for business majors. For each topic covered, the text highlights key "Take-Aways" that alert students to material they will need to remember during their careers. Sections titled "Where You Fit In" and "Why This Chapter Matters" explain how the topics being covered will impact students once they are on the job. Review questions, discussion questions, and

summaries are included in each chapter.

Chapman and Hall/CRC

**Market:** Business & Management

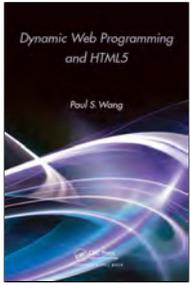
August 2015: 7 x 10: 480pp

Hb: 978-1-138-41293-4: **£170.00**

Pb: 978-1-482-22370-5: **£94.99**

\* For full contents and more information, visit: [www.routledge.com/9781482223705](http://www.routledge.com/9781482223705)

## Dynamic Web Programming and HTML5



Paul S. Wang, Kent State University, OH, USA

Helping readers master web development, this comprehensive and up-to-date guide covers specific web programming languages, APIs, and coding techniques and provides an in-depth understanding of the underlying concepts, theory, and principles. The author leads readers through page structuring, page layout/styling, user input processing, dynamic user interfaces, database-driven websites, and mobile website development. Numerous examples illustrate how the programming techniques and other elements work together to achieve practical goals. Encouraging hands-on practice, the book's companion website offers live examples, code, and additional resources.

Chapman and Hall/CRC

November 2012: 6.14 x 9.21: 664pp

Hb: 978-1-138-43615-2: **£170.00**

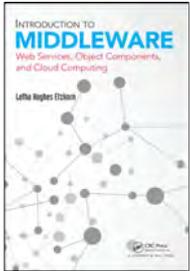
Pb: 978-1-439-87182-9: **£79.99**

eBook: 978-0-429-16962-5

\* For full contents and more information, visit: [www.routledge.com/9781439871829](http://www.routledge.com/9781439871829)

## Introduction to Middleware

Web Services, Object Components, and Cloud Computing



Letha Hughes Etkorn, University of Alabama in Huntsville, USA

Middleware is a software layer that lies underneath applications and is used to allow multiple applications to interconnect, while hiding the complexities of the underlying network, operating system, and physical connections from the application programmer. This class-tested textbook provides a comparative view of the major paradigms and technologies used today in Middleware. The strengths and weaknesses of each approach are examined. Example implementations of each type of middleware are included in the Technology Review sections in each chapter and are used in the comparisons. Suggested programming assignments and homework problems are

provided with each chapter.

Chapman and Hall/CRC

Market: Computer Science & Engineering

June 2017: 7 x 10: 688pp

Hb: 978-1-498-75407-1: **£99.99**

Pb: 978-0-367-57359-1: **£42.99**

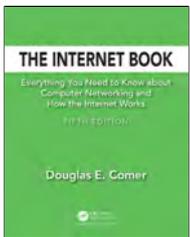
eBook: 978-1-498-75409-5

\* For full contents and more information, visit: [www.routledge.com/9781498754071](http://www.routledge.com/9781498754071)

5th Edition

## The Internet Book

Everything You Need to Know about Computer Networking and How the Internet Works



Douglas E. Comer, Purdue University, Indiana, USA

This book explains how computers communicate, what the Internet is, how the Internet works, and what services the Internet offers. It is designed for readers who do not have a strong technical background — early chapters clearly explain the terminology and concepts needed to understand all the services. It helps the reader to understand the technology behind the Internet, appreciate how the Internet can be used, and discover why people find it so exciting. In addition, it explains the origins of the Internet and shows the reader how rapidly it has grown. It also provides information on how to avoid many of the scams

and exaggerated marketing claims made by ISPs.

Chapman and Hall/CRC

Market: Information Technology

September 2018: 404pp

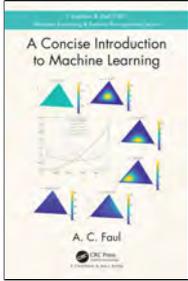
Hb: 978-1-138-33133-4: **£79.99**

Pb: 978-1-138-33029-0: **£79.99**

eBook: 978-0-429-44735-8

\* For full contents and more information, visit: [www.routledge.com/9781138330290](http://www.routledge.com/9781138330290)

## A Concise Introduction to Machine Learning



A.C. Faul, University of Cambridge, UK

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

The emphasis of the book is on the question of Why – only if why an algorithm is successful is understood, can it be properly applied, and the results trusted. Algorithms are often taught side by side without showing the similarities and differences between them. This book addresses the commonalities, and aims to give a thorough and in-depth treatment and develop intuition, while remaining concise.

This useful reference should be an essential on the bookshelves of anyone employing machine learning techniques.

Chapman and Hall/CRC

Market: Computer Science & Engineering

August 2019: 6.14 x 9.21: 334pp

Hb: 978-0-815-38420-5: £120.00

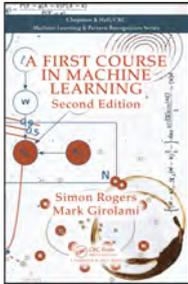
Pb: 978-0-815-38410-6: £44.99

eBook: 978-1-351-20475-0

\* For full contents and more information, visit: [www.routledge.com/9780815384106](http://www.routledge.com/9780815384106)

2nd Edition

## A First Course in Machine Learning



Simon Rogers, University of Glasgow, United Kingdom and Mark Girolami, University College London, United Kingdom

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

The new edition of this popular, undergraduate textbook has been revised and updated to reflect current growth areas in Machine Learning. The new edition includes three new chapters with more detailed discussion of Markov Chain Monte Carlo techniques, Classification and Regression with Gaussian Processes, and Dirichlet Process models. Previous chapters have also been updated to reflect new developments in Machine Learning, and correct any previous errors in the text.

Chapman and Hall/CRC

Market: Computer Science & Engineering

August 2016: 6.14 x 9.21: 428pp

Hb: 978-1-498-73848-4: £58.99

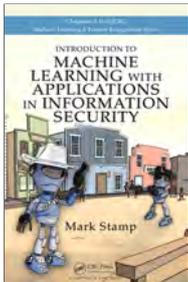
Pb: 978-0-367-57464-2: £42.99

eBook: 978-1-315-38215-9

Prev. Ed Hb: 978-1-439-82414-6

\* For full contents and more information, visit: [www.routledge.com/9781498738484](http://www.routledge.com/9781498738484)

## Introduction to Machine Learning with Applications in Information Security



Mark Stamp, Department of Computer Science, San Jose State University

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

This class-tested textbook will provide in-depth coverage of the fundamentals of machine learning, with an exploration of applications in information security. The book will cover malware detection, cryptography, and intrusion detection. The book will be relevant for students in machine learning and computer security courses.

Chapman and Hall/CRC

Market: Computer Science & Engineering

September 2017: 6.14 x 9.21: 364pp

Hb: 978-1-138-62678-2: £56.99

Pb: 978-0-367-57305-8: £42.99

eBook: 978-1-315-21326-2

\* For full contents and more information, visit: [www.routledge.com/9781138626782](http://www.routledge.com/9781138626782)

2nd Edition

## Introduction to Machine Learning with Applications in Information Security

Mark Stamp, Department of Computer Science, San Jose State University

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

*Introduction to Machine Learning with Applications in Information Security, Second Edition* provides a classroom-tested introduction to a wide variety of machine learning and deep learning algorithms and techniques, reinforced via realistic applications. The book is accessible and doesn't prove theorems, or dwell on mathematical theory. The goal is to present topics at an intuitive level, with just enough detail to clarify the underlying concepts. The applications presented serve to demystify the topics by illustrating the use of various learning techniques in straightforward scenarios.

Chapman and Hall/CRC

Market: Computer Science & Engineering

August 2022: 6.14 x 9.21: 432pp

Hb: 978-1-032-20492-5: £56.99

eBook: 978-1-003-26487-3

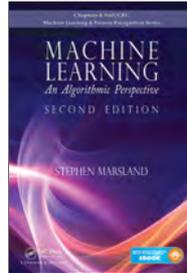
Prev. Ed Hb: 978-1-138-62678-2

\* For full contents and more information, visit: [www.routledge.com/9781032204925](http://www.routledge.com/9781032204925)

2nd Edition

## Machine Learning

An Algorithmic Perspective



Stephen Marsland, Massey University, Palmerston North, New Zealand

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

This bestseller helps students understand the algorithms of machine learning. It puts them on a path toward mastering the relevant mathematics and statistics as well as the necessary programming and experimentation. Along with improved Python code, this second edition includes two new chapters on deep belief networks and Gaussian processes. It incorporates new material on the support vector machine, random forests, the perceptron convergence theorem, filters, and more. All of

the code is available on the author's website.

Chapman and Hall/CRC

Market: Machine Learning

October 2014: 458pp

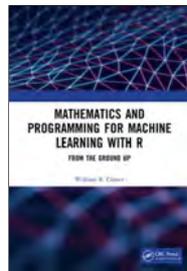
Hb: 978-1-466-58328-3: £68.99

Prev. Ed Hb: 978-1-420-06718-7

\* For full contents and more information, visit: [www.routledge.com/9781466583283](http://www.routledge.com/9781466583283)

## Mathematics and Programming for Machine Learning with R

From the Ground Up



William B. Claster

The language of machine learning is programming, and this textbook helps novice programmers acquire step-by-step skills needed to understand and implement algorithms. Beginning with simple implementations and moving to the modern object-oriented paradigm, the text presents important basic algorithms and powerful deep learning algorithms. It begins with basic concepts in R and proceeds to basic concepts in math and statistics, all done from a programming point of view and then to the implementation of several algorithms. Strong emphasis is placed on improving the programming skills and implementing full-fledged algorithms.

CRC Press

Market: Computer Science & Engineering

October 2020: 7 x 10: 430pp

Hb: 978-0-367-56194-9: £89.99

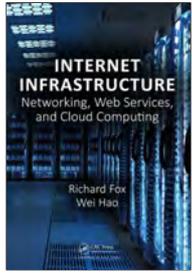
Pb: 978-0-367-50785-5: £44.99

eBook: 978-1-003-05122-0

\* For full contents and more information, visit: [www.routledge.com/9780367507855](http://www.routledge.com/9780367507855)

## Internet Infrastructure

Networking, Web Services, and Cloud Computing



**Richard Fox**, Northern Kentucky University, Highland Heights, USA and **Wei Hao**, Department of Computer Science, Northern Kentucky University

This book is a comprehensive introduction to Internet Infrastructure. It covers wired and wireless networks, the Internet (specifically the TCP/IP protocol), the domain name system (DNS), web servers and the HTTP/HTTPS protocols, web caches and various proxy server protocols, establishing IP addresses, and cloud computing. The book also includes forms of encryption technologies, securing networks and servers, network analysis tools, load balancing, mechanisms for redundancy, and more.

Each concept chapter is followed by a case study chapter to illustrate the concepts presented. The case study chapters are set up so that readers can install servers and experiment with their configurations.

CRC Press

**Market:** Computer Science & Engineering

October 2017: 7 x 10: 632pp

Hb: 978-1-138-03991-9: **£120.00**

Pb: 978-0-367-57279-2: **£42.99**

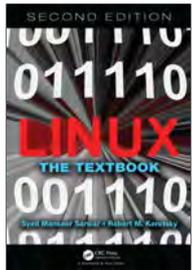
eBook: 978-1-315-17557-7

\* For full contents and more information, visit: [www.routledge.com/9781138039919](http://www.routledge.com/9781138039919)

2nd Edition

## Linux

The Textbook



**Syed Mansoor Sarwar**, Punjab University College of Information Technology (PUCIT), University of the Punjab and **Robert M Koretsky**

Linux: The Textbook, Second Edition provides comprehensive coverage of the contemporary use of the Linux operating system for every level of student or practitioner, from beginners to advanced users. The text clearly illustrates system-specific commands and features using Debian-family Debian, Ubuntu, and Linux Mint, and RHEL-family CentOS, and stresses universal commands and features that are critical to all Linux distributions.

Chapman and Hall/CRC

**Market:** Information Technology

October 2018: 7 x 10: 688pp

Hb: 978-1-138-71008-5: **£94.99**

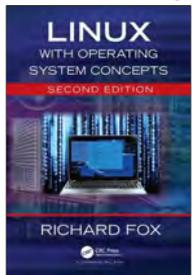
Pb: 978-0-367-57106-1: **£42.99**

eBook: 978-1-315-19685-5

\* For full contents and more information, visit: [www.routledge.com/9781138710085](http://www.routledge.com/9781138710085)

2nd Edition

## Linux with Operating System Concepts



**Richard Fox**, Northern Kentucky University, Highland Heights, USA

Linux with Operating System Concepts merges conceptual operating system (OS) and Unix/Linux topics into one cohesive textbook for undergraduate students. The book can be used for a one- or two-semester course on Linux or Unix. It is complete with review sections, problems, definitions, and concepts. The book has been updated to systemd Linux and the newer services like Cockpit, NetworkManager, firewallD and journalD. This edition explores Linux beyond CentOS/Red Hat by adding detail on Debian distributions. Content across most topics has been updated and improved.

Chapman and Hall/CRC

**Market:** Computer Science & Engineering

December 2021: 7 x 10: 620pp

Hb: 978-1-032-06670-7: **£190.00**

Pb: 978-1-032-06345-4: **£74.99**

eBook: 978-1-003-20332-2

Prev. Ed Pb: 978-1-482-23589-0

\* For full contents and more information, visit: [www.routledge.com/9781032063454](http://www.routledge.com/9781032063454)

2nd Edition

## Mastering Modern Linux



**Paul S. Wang**, Kent State University, OH, USA

This popular textbook has been well received in the marketplace, since its publication in 2010. The Linux system is now much more widely used and have evolved in significant ways, since the publication of the first edition. Popular Linux distributions have moved ahead and matured. New distributions, such as Mint, have become widely used. Linux is now much more GUI (graphical user interface) oriented and can compete with MS Windows and MAC OS on many levels. The book will be updated to reflect all of these recent developments and advances, while preserving the overall structure and most of the topics in the first edition.

Chapman and Hall/CRC

**Market:** Information Technology

June 2018: 7 x 10: 384pp

Hb: 978-0-815-38111-2: **£120.00**

Pb: 978-0-815-38098-6: **£56.99**

eBook: 978-1-351-21130-7

\* For full contents and more information, visit: [www.routledge.com/9780815380986](http://www.routledge.com/9780815380986)

2nd Edition

## Operating System Design

The Xinu Approach



**Douglas Comer** and **Douglas Comer**, Purdue University, Indiana, USA

Avoiding the typical black box approach found in other operating system textbooks, this bestselling book explains how to build an operating system from the ground up. It removes the mystery from operating system design and consolidates the body of material into a systematic discipline. The text presents a hierarchical design paradigm that organizes major operating system components in an orderly, understandable manner. This second edition has been completely rewritten with updated code throughout and examples for two low-cost experimenter

boards.

Chapman and Hall/CRC

**Market:** Computer Science & Engineering

February 2015: 704pp

Hb: 978-1-498-71243-9: **£79.99**

Pb: 978-0-367-57593-9: **£42.99**

eBook: 978-0-429-19074-2

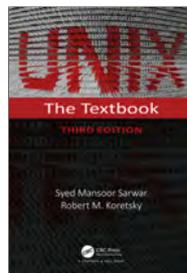
Prev. Ed Hb: 978-1-439-88109-5

\* For full contents and more information, visit: [www.routledge.com/9781498712439](http://www.routledge.com/9781498712439)

3rd Edition

## UNIX

The Textbook



**Syed Mansoor Sarwar** and **Robert M. Koretsky**

This third edition of a bestseller has been completely revised and expanded to include seven new chapters covering Python fundamentals, Unix system administration fundamentals, and more. Designed for undergraduate students taking Unix or operating systems courses, the text provides comprehensive coverage of Unix system programming and administration. Each chapter presents web resources, summaries, questions, and problems.

Chapman and Hall/CRC

**Market:** Information Technology

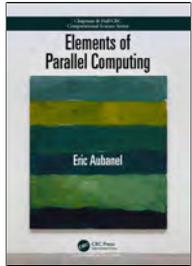
October 2016: 7 x 10: 1380pp

Hb: 978-1-482-23358-2: **£105.00**

eBook: 978-1-482-23360-5

\* For full contents and more information, visit: [www.routledge.com/9781482233582](http://www.routledge.com/9781482233582)

## Elements of Parallel Computing



Eric Aubanel

Series: *Chapman & Hall/CRC Computational Science*

This textbook covers the core principles of parallel computing using language-neutral programming models together with abstract machine models. It focuses on patterns of parallel programming and mental models of parallel computing, using a task graph approach. Pseudocode is used for the programming examples in order to capture the essential behavior, without getting tied up in syntactical details. The author provides implementations of all examples in several parallel programming languages as part of the supplementary material.

Chapman and Hall/CRC

Market: Computer Science & Engineering

December 2016: 7 x 10: 238pp

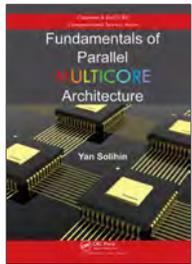
Hb: 978-1-138-47087-3: **£170.00**

Pb: 978-1-498-72789-1: **£57.99**

eBook: 978-1-498-72792-1

\* For full contents and more information, visit: [www.routledge.com/9781498727891](http://www.routledge.com/9781498727891)

## Fundamentals of Parallel Multicore Architecture



Yan Solihin, Solihin Publishing and Consulting, LLC, Raleigh, North Carolina, USA

Series: *Chapman & Hall/CRC Computational Science*

This text provides all the material for a graduate or senior undergraduate course that focuses on the architecture of multicore processors. The book is also useful as a reference for professionals who deal with programming on multicore or designing multicore chips. It addresses programming issues in shared memory multiprocessors, covers the architectures for shared memory multiprocessors, and contains interviews with experts in parallel multicore architecture. It also offers many pedagogical features, including mini case studies, alternative

points of view, examples, and online programming assignments and solutions.

Chapman and Hall/CRC

Market: Computer Science & Engineering

November 2015: 7 x 10: 494pp

Hb: 978-1-482-21118-4: **£89.99**

Pb: 978-0-367-57528-1: **£42.99**

\* For full contents and more information, visit: [www.routledge.com/9781482211184](http://www.routledge.com/9781482211184)

## GPU Parallel Program Development Using CUDA



Tolga Soyata, University at Albany, SUNY, USA

Series: *Chapman & Hall/CRC Computational Science*

This book teaches GPU programming by showing differences among families of GPUs. It emphasizes concepts that will remain relevant for a long time, rather than concepts that are platform-specific, while emphasizing the performance improvements that can be obtained from platform-dependent code.

This three-part book starts by explaining parallelism using CPU multi-threading in Part I and teaches GPU massive parallelism in Part II by providing comparisons to CPU multi-threading. Part III of the book explores popular CUDA libraries, the OpenCL

programming language, GPU programming using other programming languages and API libraries, and the deep learning library cuDNN.

Chapman and Hall/CRC

Market: Computer Science & Engineering

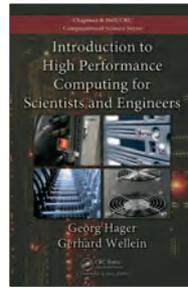
February 2018: 7 x 10: 476pp

Hb: 978-1-498-75075-2: **£59.99**

Pb: 978-0-367-57224-2: **£42.99**

\* For full contents and more information, visit: [www.routledge.com/9781498750752](http://www.routledge.com/9781498750752)

## Introduction to High Performance Computing for Scientists and Engineers



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

Series: *Chapman & Hall/CRC Computational Science*

Written by HPC experts, this book provides a solid introduction to current mainstream computer architecture, dominant parallel programming models, and useful optimization strategies for scientific HPC. It facilitates an intuitive understanding of performance limitations without relying on heavy computer science knowledge. The authors highlight the importance of performance modeling of applications on all levels of a system's architecture and include numerous case studies drawn from their experiences in HPC user support, performance optimization,

and benchmarking. Downloadable code and an annotated bibliography are available on the book's website.

CRC Press

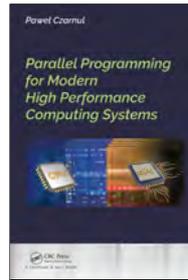
July 2010: 6.14 x 9.21: 356pp

Hb: 978-1-138-47089-7: **£170.00**

Pb: 978-1-439-81192-4: **£69.99**

\* For full contents and more information, visit: [www.routledge.com/9781439811924](http://www.routledge.com/9781439811924)

## Parallel Programming for Modern High Performance Computing Systems



Pawel Czarnul

This book covers parallel programming for modern high performance computing systems. It discusses state-of-the-art computing devices and systems, including multicore and manycore CPUs, accelerators, and coprocessors. It also introduces parallelization through programming paradigms. The practical and useful elements of the most important APIs for programming parallel HPC systems are discussed, including MPI, OpenMP, Pthreads, CUDA, OpenCL, and OpenACC. It also demonstrates how selected APIs can be used to implement programming paradigms. The book also presents hybrid codes that integrate selected APIs for potentially multi-level parallelization.

Chapman and Hall/CRC

Market: Computer Science & Engineering

February 2018: 6.14 x 9.21: 330pp

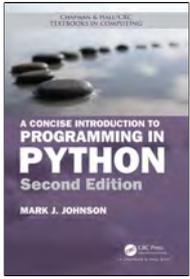
Hb: 978-1-138-30595-3: **£84.99**

Pb: 978-0-367-57212-9: **£42.99**

eBook: 978-1-315-14440-5

\* For full contents and more information, visit: [www.routledge.com/9781138305953](http://www.routledge.com/9781138305953)

2nd Edition

**A Concise Introduction to Programming in Python**

Mark J. Johnson, Central College, Iowa, USA

*Series: Chapman & Hall/CRC Textbooks in Computing*

A Concise Introduction to Programming in Python, Second Edition provides a hands-on and accessible introduction to writing software in Python, with no prior programming experience required. The text offers sections designed for approximately one class period each, and proceeds gradually from procedural to object-oriented design. Examples, exercises, and projects are included from diverse application domains, including finance, biology, image processing, and textual analysis. It also includes a brief "How-To" sections that introduce optional topics students may be interested in exploring. The text is written to be read, making it a good fit in flipped classrooms.

Chapman and Hall/CRC

**Market:** Information Technology

March 2018: 6.14 x 9.21: 227pp

Hb: 978-1-138-08255-7: **£140.00**Pb: 978-1-138-08258-8: **£42.99**

eBook: 978-1-315-11242-8

\* For full contents and more information, visit: [www.routledge.com/9781138082588](http://www.routledge.com/9781138082588)

2nd Edition

**Discovering Computer Science**

Interdisciplinary Problems, Principles, and Python Programming



Jessen Havill

*Series: Chapman & Hall/CRC Textbooks in Computing*

Discovering Computer Science: Interdisciplinary Problems, Principles, and Python Programming introduces computational problem solving as a vehicle of discovery in a wide variety of disciplines. With a principles-oriented introduction to computational thinking, the text provides a broader and deeper introduction to computer science than typical introductory programming books. Organized around interdisciplinary problem domains, rather than programming language features, each chapter guides students through sophisticated algorithmic and programming techniques. The author uses a spiral approach to

introduce Python language features in increasingly complex contexts as the book progresses.

Chapman and Hall/CRC

**Market:** Computer Science

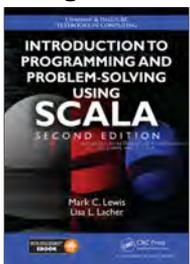
October 2020: 7 x 10: 542pp

Hb: 978-0-367-61335-8: **£150.00**Pb: 978-0-367-47249-8: **£68.99**

eBook: 978-1-003-03714-9

\* For full contents and more information, visit: [www.routledge.com/9780367472498](http://www.routledge.com/9780367472498)

2nd Edition

**Introduction to Programming and Problem-Solving Using Scala**

Mark C. Lewis, Trinity University, San Antonio, Texas, USA and Lisa Lacher, University of Houston, Texas, USA

*Series: Chapman & Hall/CRC Textbooks in Computing*

Mark Lewis' *Introduction to the Art of Programming Using Scala* was the first textbook to use Scala for introductory CS courses. Scala continues to gain significance among professional developers, and a new edition of this popular textbook is needed to update the book from Scala 2.9 to Scala 2.12. The second edition will be divided into two textbooks. The first volume is designed for CS1 courses and will focus on programming and problem-solving using Scala. The book will be significantly updated throughout to bring the code up-to-date for Scala 2.11

and 2.12.

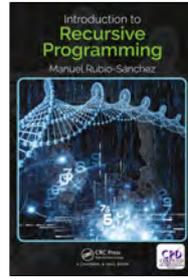
Chapman and Hall/CRC

**Market:** Computer Science & Engineering

August 2016: 7 x 10: 590pp

Pb: 978-1-498-73095-2: **£55.99**

eBook: 978-1-315-38260-9

\* For full contents and more information, visit: [www.routledge.com/9781498730952](http://www.routledge.com/9781498730952)**Introduction to Recursive Programming**

Manuel Rubio-Sanchez

Recursion is an important problem-solving skill that is considered to be one of the most difficult topics to master by CS1/2 students. The main goal of the book is to help students assimilate its fundamental concepts by analyzing a large number of problems of different nature. The material is presented at a slower pace than traditional textbooks, which usually devote only one chapter to the topic. In this regard, the book not only covers classical problems found in the literature in greater depth, but it introduces richer related problems as well. This will allow students to gain more insight by comparing the solutions, and by tackling more problems.

CRC Press

**Market:** Computer Science & Engineering

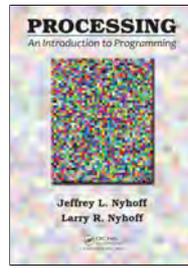
September 2017: 6.14 x 9.21: 451pp

Hb: 978-1-138-10521-8: **£140.00**Pb: 978-1-498-73528-5: **£68.99**

eBook: 978-1-498-73530-8

\* For full contents and more information, visit: [www.routledge.com/9781498735285](http://www.routledge.com/9781498735285)**Processing**

An Introduction to Programming



Jeffrey L. Nyhoff, Trinity Christian College, Palos Heights, Illinois, USA and Larry R. Nyhoff, Calvin College, Grand Rapids, Michigan, USA

Originally designed to make it simpler for digital artists to learn to program, Processing is a wonderful first language for anyone to learn. Given its origins, programming graphics, animations, and interactivity is much simpler in Processing, thus providing a much-needed visual approach to programming instruction in computer science as well as the arts and humanities. However, current books on Processing are either artistically oriented or proceed at a pace that is not really accessible for novices. This gentle introduction to computer programming using Processing

includes the standard programming constructs, as well as examples that use animation and interactive graphics.

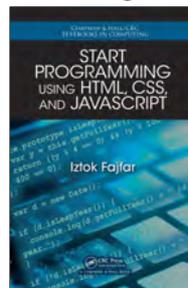
Chapman and Hall/CRC

**Market:** Computer Science & Engineering

May 2017: 7 x 10: 576pp

Hb: 978-1-138-37371-6: **£120.00**Pb: 978-1-482-25595-9: **£55.99**

eBook: 978-1-315-11892-5

\* For full contents and more information, visit: [www.routledge.com/9781482255959](http://www.routledge.com/9781482255959)**Start Programming Using HTML, CSS, and JavaScript**

Iztok Fajfar, University of Ljubljana, Slovenia

*Series: Chapman & Hall/CRC Textbooks in Computing*

This text is a manual for undergraduate students in engineering and the natural sciences to discover how computer programming works. Using a dialog format between two students and a professor, the text teaches students how the mainstream web languages HTML, CSS, and JavaScript interact and how to harness their capabilities in practical settings. Each chapter focuses on a specific theme supported by a gradual development of engaging worked examples of live web documents and applications using the three languages.

Chapman and Hall/CRC

**Market:** Computer Science & Engineering

September 2015: 7 x 10: 468pp

Hb: 978-1-138-41290-3: **£160.00**Pb: 978-1-498-73144-7: **£84.99**\* For full contents and more information, visit: [www.routledge.com/9781498731447](http://www.routledge.com/9781498731447)

## Exercises in Programming Style



Cristina Videira Lopes, University of California, Irvine, USA

Using a simple computational task (term frequency) to illustrate different programming styles, this book helps readers understand the various ways of writing programs and designing systems. It contains 33 different styles for writing the term frequency task. Designed to be used in conjunction with code provided on an online repository, the book complements and explains the raw code in a way that is accessible to anyone who regularly practices the art of programming.

Chapman and Hall/CRC

**Market:** Computer Science

June 2014: 6.14 x 9.21: 304pp

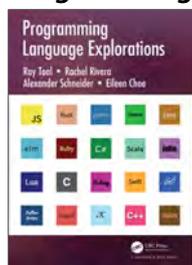
Hb: 978-1-138-46078-2: **£170.00**

Pb: 978-1-482-22737-6: **£36.99**

eBook: 978-0-429-15846-9

\* For full contents and more information, visit: [www.routledge.com/9781482227376](http://www.routledge.com/9781482227376)

## Programming Language Explorations



Ray Toal, Rachel Rivera, Pandora, Alexander Schneider, Microsoft and Eileen Choe, Jet Propulsion Laboratory

The book is a programming languages textbook disguised as a tour of modern programming languages. As readers move through each language, they will encounter numerous examples introducing its key features. The book explains why each feature is in the language, pointing out (1) how it improves upon similar features in previous (and related) languages, and (2) how it is an instance of a more general concept. The book is not organized around the concepts; rather, the language-independent concepts are introduced as needed. An appendix lists and organizes each concept, in outline or glossary form, together

with a mind map figure.

Chapman and Hall/CRC

**Market:** Information Technology

September 2016: 7 x 10: 362pp

Hb: 978-1-138-41289-7: **£170.00**

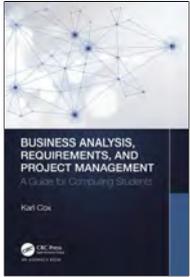
Pb: 978-1-498-73846-0: **£68.99**

eBook: 978-1-315-31433-4

\* For full contents and more information, visit: [www.routledge.com/9781498738460](http://www.routledge.com/9781498738460)

## Business Analysis, Requirements, and Project Management

A Guide for Computing Students



**Karl Cox**

The biggest problem in software development is building the wrong product because IT people do not understand what business people want. This textbook explains how to model a product proposal from a business perspective, its processes, and IT requirements, as well as managing the project to build the project. It links business and IT requirements with project management in an incremental and straightforward approach. Designed for computing students, it presents a step-by-step approach, examples, explanations, exercises, and answers. The text gives students what they need to get through requirements and management courses and prepares them for professional practice.

Auerbach Publications

**Market:** Software Development

October 2021: 6.14 x 9.21: 218pp

Hb: 978-1-032-10975-6: **£120.00**

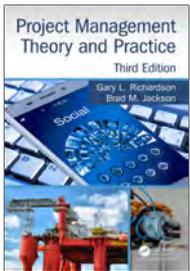
Pb: 978-0-367-76684-9: **£44.99**

eBook: 978-1-003-16811-9

\* For full contents and more information, visit: [www.routledge.com/9780367766849](http://www.routledge.com/9780367766849)

3rd Edition

## Project Management Theory and Practice



**Gary L. Richardson**, University of Houston, Texas, USA and  
**Brad M. Jackson**

This new edition aligns with ANSI/EIA 748 standard for Earned Value Management Systems and the 2017 edition of the Project Management Institute's *PMBOK*® Guide. The textbook is updated with new *PMBOK*® Guide material on human resource management and the agile methodology. Collectively, these two accepted industry models can be used to describe a best practice management overview and that is the driving goal of this edition. The text is a readable companion to both technical guides as well as an aid to studying for various project management certifications. For many of the major sections, the

PMI Global Accreditation curriculum learning objectives guide the content.

Auerbach Publications

**Market:** Project Management

July 2018: 7 x 10: 636pp

Hb: 978-0-815-36071-1: **£79.99**

eBook: 978-0-429-46414-0

Prev. Ed Hb: 978-1-482-25495-2

\* For full contents and more information, visit: [www.routledge.com/9780815360711](http://www.routledge.com/9780815360711)

## A Concise Introduction to Robot Programming with ROS2

Francisco Martín Rico

*A Concise Introduction to Robot Programming with ROS2* provides the reader with the concepts and tools necessary to bring a robot to life through programming. It will equip the reader with the skills necessary to undertake projects in ROS2, the new version of ROS. It is not necessary to have previous experience in ROS2 as it will describe its concepts, tools, and methodologies from the beginning without needing previous experience in ROS. It will appeal to motivated engineering students, engineers and professionals working with robot programming.

Chapman and Hall/CRC

**Market:** Computer Science

August 2022: 7 x 10: 272pp

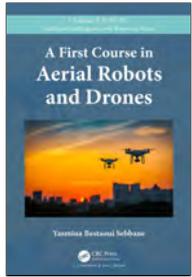
Hb: 978-1-032-26720-3: **£110.00**

Pb: 978-1-032-26465-3: **£42.99**

eBook: 978-1-003-28962-3

\* For full contents and more information, visit: [www.routledge.com/9781032264653](http://www.routledge.com/9781032264653)

## A First Course in Aerial Robots and Drones



Yasmína Bestaoui Sebbane, Université d'Evry, France

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

*A First Course in Aerial Robots and Drones* provides an accessible and student friendly introduction to aerial robots and drones. Drones figure prominently as opportunities for students to learn various aspects of aerospace engineering and design. Drones offer an enticing entry point for STEM studies. As the use of drones in STEM studies grows, there is an emerging generation of drone pilots who are not just good at flying, but experts in specific niches, such as mapping or thermography. Suitable for undergraduate students, this textbook provides students and other readers with methods for solving problems and improving their science skills.

Chapman and Hall/CRC

**Market:** Artificial Intelligence

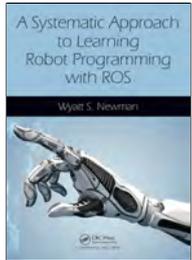
February 2022: 6.14 x 9.21: 216pp

Hb: 978-0-367-63138-3: **£76.99**

eBook: 978-1-003-12178-7

\* For full contents and more information, visit: [www.routledge.com/9780367631383](http://www.routledge.com/9780367631383)

## A Systematic Approach to Learning Robot Programming with ROS



Wyatt Newman, Case Western Reserve University, Cleveland, Ohio, USA

ROS is becoming the de facto means of robot programming, and is expected to be crucial for robotics development in self-driving cars, service robots, military robots, industrial robots, aerial drones, underwater robots, and smart buildings and cities. This text is for senior undergraduate and graduate students, as well as professionals learning or working in automation. The ROS style of programming offers many benefits to developers, including: access to a large library of ROS packages; open-source repositories; rapid prototyping of new robots, sensors and actuators; ability to develop code in realistic dynamic simulations; and ability to deploy systems that exploit distributed processing.

Chapman and Hall/CRC

**Market:** Computer Science & Engineering

September 2017: 7 x 10: 530pp

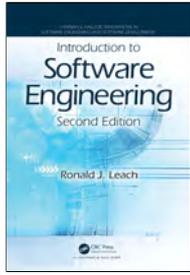
Hb: 978-1-138-09630-1: **£140.00**

Pb: 978-1-498-77782-7: **£56.99**

eBook: 978-1-498-77784-1

\* For full contents and more information, visit: [www.routledge.com/9781498777827](http://www.routledge.com/9781498777827)

2nd Edition

**Introduction to Software Engineering**

Ronald J. Leach, Howard University, Washington, DC, USA

*Series: Chapman & Hall/CRC Innovations in Software Engineering and Software Development Series*

Adding material on open source and agile development models, this second edition equips students with the fundamentals to prepare them for satisfying careers as software engineers. The text helps students understand software development techniques and processes at a reasonably sophisticated level. It covers each major phase of the software development life cycle, from developing software requirements to software maintenance. It also discusses project management and explains how to read software engineering literature.

Chapman and Hall/CRC

**Market:** Information Technology

February 2016: 7 x 10: 428pp

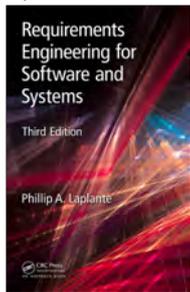
Hb: 978-1-498-70527-1: **£84.99**Pb: 978-0-367-57503-8: **£42.99**

eBook: 978-1-315-37166-5

Prev. Ed Hb: 978-0-849-31445-2

\* For full contents and more information, visit: [www.routledge.com/9781498705271](http://www.routledge.com/9781498705271)

3rd Edition

**Requirements Engineering for Software and Systems**

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

*Series: Applied Software Engineering Series*

Solid requirements engineering has increasingly been recognized as the key to improved, on-time and on-budget delivery of software and systems projects. This new edition illustrates key ideas associated with requirements engineering using extensive case studies and three common example systems: an airline baggage handling system, a point-of-sale system for a large pet store chain, and a system for a smart home. In addition to new exercises and updated references in every chapter, this edition updates all chapters with the latest applied research and industry practices. It also presents new material

derived from the experiences of professors who have used the text in their classrooms.

Auerbach Publications

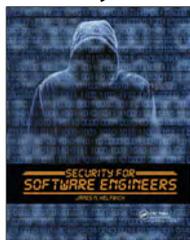
**Market:** Information Technology

October 2017: 6.14 x 9.21: 400pp

Hb: 978-1-138-19611-7: **£84.99**

eBook: 978-1-315-30371-0

Prev. Ed Hb: 978-1-466-56081-9

\* For full contents and more information, visit: [www.routledge.com/9781138196117](http://www.routledge.com/9781138196117)**Security for Software Engineers**

James N. Helfrich

Most textbooks about Computer Security targets end-users, or CIT/IT professionals. Few if any truly target undergraduate software engineering students. This book is designed to address this shortcoming. It is divided into four units, each targeting activities that a software engineer will likely be involved in within industry. These areas are: attack vectors, code hardening, privacy, and social engineering. Each topic is explored from a theoretical and a practical-application standpoint. This text will equip students to make knowledgeable security decisions, be productive members of a security review team, and write code

that protects a user's information assets.

Chapman and Hall/CRC

September 2020: 8.25 x 11: 350pp

Hb: 978-1-138-58382-5: **£79.99**Pb: 978-0-367-65681-2: **£42.99**

eBook: 978-0-429-50647-5

\* For full contents and more information, visit: [www.routledge.com/9780367656812](http://www.routledge.com/9780367656812)

2nd Edition

**Software Engineering**

A Methodical Approach



Elvis C. Foster and Bradford A. Towle Jr.

This text provides a comprehensive, but concise introduction to software engineering. It adopts a methodical approach to solving software engineering problems, proven over several years of teaching, with outstanding results. The book covers concepts, principles, design, construction, implementation, and management issues of software engineering. With an emphasis on object-oriented development, the second edition features new chapters on software engineering projects, management support systems, and software engineering frameworks and patterns as a significant building block for the design and construction of contemporary software systems.

Auerbach Publications

**Market:** Software Engineering

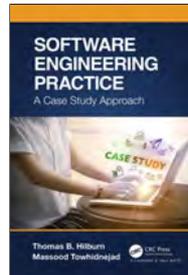
July 2021: 7 x 10: 578pp

Hb: 978-0-367-76943-7: **£120.00**Pb: 978-0-367-74601-8: **£59.99**

eBook: 978-0-367-74602-5

\* For full contents and more information, visit: [www.routledge.com/9780367746018](http://www.routledge.com/9780367746018)**Software Engineering Practice**

A Case Study Approach



Thomas B. Hilburn, Embry-Riddle Aeronautical Univ, Daytona Beach, Florida, USA and Massood Towhidnejad, Embry-Riddle Aeronautical Univ, Daytona Beach, Florida, USA

This textbook explains software engineering through the use of a case study on the software development lifecycle. The case study covers the development of a DigitalHome (DH) System. A set of scenarios that provide a realistic framework for use of the DH System material are included along with exercises that provide students with an opportunity to engage in the software development practice within a team environment. Each chapter includes mini tutorials that introduce various software engineering topics discussed. Teacher notes and other web

resources are available upon qualified course adoption.

Chapman and Hall/CRC

**Market:** Software Engineering

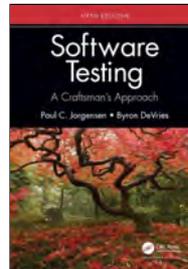
December 2020: 6.14 x 9.21: 356pp

Hb: 978-1-466-59167-7: **£150.00**Pb: 978-0-367-68864-6: **£59.99**

eBook: 978-0-429-16849-9

\* For full contents and more information, visit: [www.routledge.com/9781466591677](http://www.routledge.com/9781466591677)

5th Edition

**Software Testing**

Paul C. Jorgensen, Grand Valley State University, Allendale, Michigan, USA and Byron DeVries

The 5th Edition of Software Testing: A Craftsman's Approach responds to feedback from users and is a major rewrite, deleting outdated material and adding new sections on model-based testing and feature interaction testing. One major change is the shift to Java for both the procedural and object-oriented examples. The examples are updated and include an event-driven example. The fifth edition streamlines examples and more tightly coordinates the chapters. This best-selling textbook retains its strong emphasis on theory and rigor.

Auerbach Publications

**Market:** Information Technology

June 2021: 7 x 10: 550pp

Hb: 978-0-367-35849-5: **£74.99**

eBook: 978-1-003-16844-7

Prev. Ed Hb: 978-1-466-56068-0

\* For full contents and more information, visit: [www.routledge.com/9780367358495](http://www.routledge.com/9780367358495)

## Real Time Visual Effects for the Technical Artist



Chris Roda

Built upon a career of over twenty years in the feature film visual effects and the real-time video game industries and tested on graduate and undergraduate students, this book introduces the reader to the technical aspects of real-time visual effects, written for digital artists. *Real Time Visual Effects for the Technical Artist* is written to compliment undergraduate or graduate level courses focussed on the fundamentals of modern real-time visual effects.

CRC Press

**Market:** Computer Graphics & Visualization

March 2022: 8.25 x 11: 410pp

Hb: 978-0-367-86012-7: **£115.00**

Pb: 978-0-367-44448-8: **£44.99**

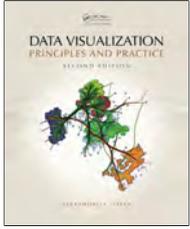
eBook: 978-1-003-00979-5

\* For full contents and more information, visit: [www.routledge.com/9780367444488](http://www.routledge.com/9780367444488)

2nd Edition

## Data Visualization

Principles and Practice, Second Edition



**Alexandru C. Telea**, University of Groningen, The Netherlands

This book explores the study of processing and visually representing data sets. Data visualization is closely related to information graphics, information visualization, scientific visualization, and statistical graphics. This second edition presents a better treatment of the relationship between traditional scientific visualization and information visualization, a description of the emerging field of visual analytics, and updated techniques using the GPU and new generations of software tools and packages. This edition is also enhanced with exercises and

downloadable code and data sets.

A K Peters/CRC Press

**Market:** Computer Science & Engineering

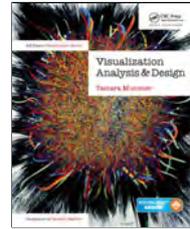
September 2014: 617pp

Hb: 978-1-466-58526-3: **£74.99**

Prev. Ed Hb: 978-1-568-81306-6

\* For full contents and more information, visit: [www.routledge.com/9781466585263](http://www.routledge.com/9781466585263)

## Visualization Analysis and Design



**Tamara Munzner**, University of British Columbia, Vancouver, Canada

*Series: AK Peters Visualization Series*

This book provides a systematic, comprehensive framework for thinking about visualization in terms of principles and design choices. It features a unified approach encompassing information visualization techniques for abstract data, scientific visualization techniques for spatial data, and visual analytics techniques for interweaving data transformation and analysis with interactive visual exploration. Suitable for both beginners and more

experienced designers, the book does not assume any experience with programming, mathematics, human-computer interaction, or graphic design.

A K Peters/CRC Press

**Market:** Computer Graphics/Visualization

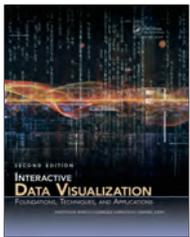
December 2014: 428pp

Hb: 978-1-466-50891-0: **£62.99**

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A K Peters/CRC Press

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June 2015: 578pp

Hb: 978-1-482-25737-3: **£94.99**

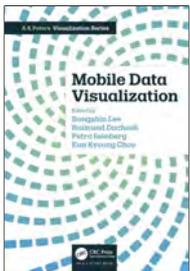
Pb: 978-0-367-78348-8: **£42.99**

eBook: 978-0-429-17322-6

Prev. Ed Hb: 978-1-568-81473-5

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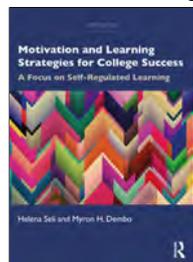
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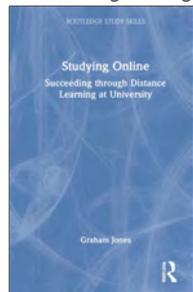
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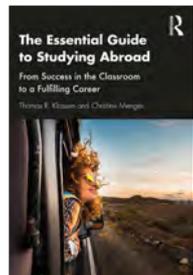
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Routledge

Market: Studying Abroad/Fresh Graduates Guide to Work

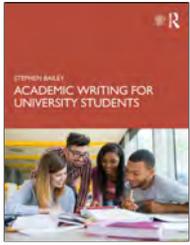
August 2019: 6.14 x 9.21: 238pp

Hb: 978-0-367-23515-4: **£120.00**Pb: 978-0-367-23516-1: **£29.99**

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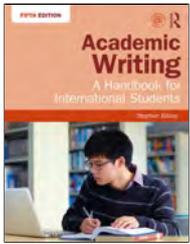
**Market:** Education / Academic Writing  
December 2021: 7.44 x 9.69: 324pp  
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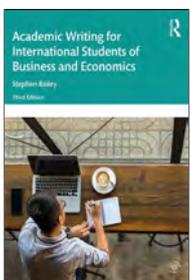
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**Market:** Study Guides/ Writing Skills  
December 2017: 7.44 x 9.69: 344pp  
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Routledge

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January 2020: 7.44 x 9.69: 346pp  
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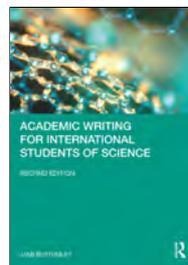
Routledge

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January 2020: 6.85 x 9.69: 246pp  
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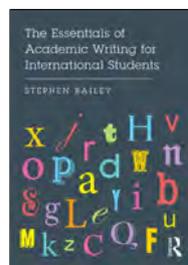
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Pb: 978-0-367-63272-4: **£24.99**  
eBook: 978-1-003-11857-2  
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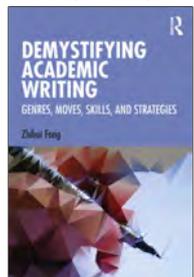
Routledge

**Market:** Higher Education  
June 2015: 5.83 x 8.27: 246pp  
Hb: 978-1-138-88561-5: **£89.99**  
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April 2021: 6.14 x 9.21: 286pp

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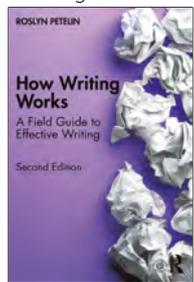
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November 2021: 6.14 x 9.21: 326pp

Hb: 978-1-032-01630-6: £120.00

Pb: 978-1-032-01628-3: £27.99

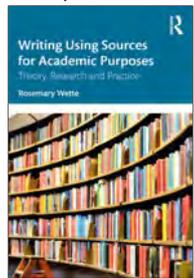
eBook: 978-1-003-17934-4

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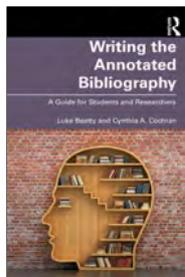
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Routledge

Market: Research Skills

July 2020: 6 x 9: 162pp

Hb: 978-0-367-40887-9: £120.00

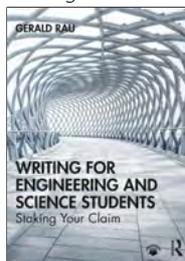
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Routledge

Market: English Language and Applied Linguistics

August 2019: 6.85 x 9.69: 324pp

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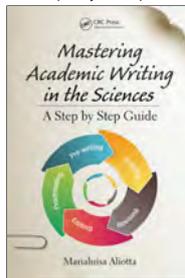
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A Step-by-Step Guide



Marialuisa Aliotta

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

CRC Press

Market: Physics

April 2018: 6.14 x 9.21: 200pp

Hb: 978-1-138-74288-8: £110.00

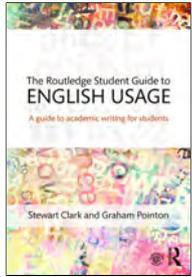
Pb: 978-1-498-70147-1: £42.99

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## The Routledge Student Guide to English Usage

A guide to academic writing for students



**Stewart Clark**, Norwegian University of Science and Technology and **Graham Pointon**, Freelance writer, retired from the BBC Pronunciation Unit

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

improving their academic writing skills.

Routledge

**Market:** English Language and Linguistics/TESOL/ELT

May 2016: 6.14 x 9.21: 402pp

Hb: 978-1-138-93358-3: **£115.00**

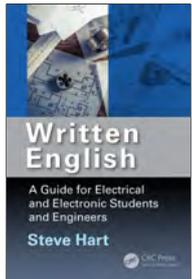
Pb: 978-1-138-93359-0: **£34.99**

eBook: 978-1-315-67843-6

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## Written English

A Guide for Electrical and Electronic Students and Engineers



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

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

CRC Press

**Market:** Engineering - Electrical

December 2015: 5.06 x 7.81: 216pp

Hb: 978-1-138-42241-4: **£160.00**

Pb: 978-1-498-73962-7: **£34.99**

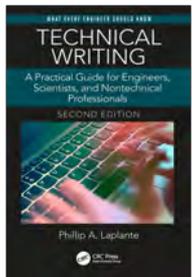
eBook: 978-1-315-21412-2

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**Phillip A. Laplante**, The Pennsylvania State University, Malvern, USA

*Series: What Every Engineer Should Know*

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

CRC Press

**Market:** Engineering - General

August 2018: 6.14 x 9.21: 300pp

Hb: 978-1-138-60696-8: **£125.00**

Pb: 978-1-138-62810-6: **£42.99**

eBook: 978-0-429-46739-4

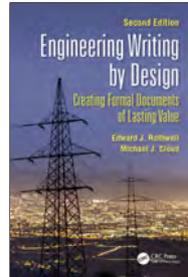
Prev. Ed Pb: 978-1-439-82085-8

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CRC Press

**Market:** Engineering - General

January 2020: 6.14 x 9.21: 257pp

Hb: 978-0-367-89682-9: **£89.99**

Pb: 978-0-367-34754-3: **£44.99**

eBook: 978-0-429-32769-8

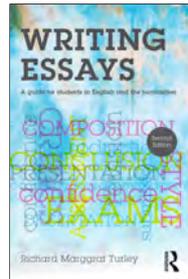
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**Richard Marggraf Turley**, Aberystwyth University, Wales.

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Routledge

**Market:** Study Guide

November 2015: 5.5 x 8.5: 158pp

Hb: 978-1-138-91668-5: **£115.00**

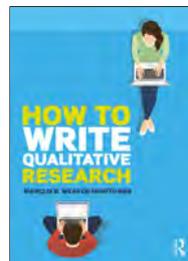
Pb: 978-1-138-91669-2: **£18.99**

eBook: 978-1-315-68944-9

Prev. Ed Pb: 978-0-415-23013-1

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**Marcus B. Weaver-Hightower**, University of North Dakota, USA

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Routledge

**Market:** Research Methods/Qualitative

October 2018: 6.85 x 9.69: 282pp

Hb: 978-1-138-06630-4: **£120.00**

Pb: 978-1-138-06631-1: **£38.99**

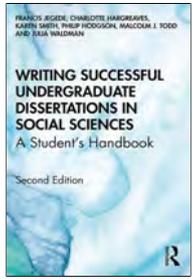
eBook: 978-1-315-15926-3

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A Student's Handbook



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

Routledge

**Market:** Education / Undergraduate Dissertation

February 2020: 5.5 x 8.5: 240pp

Hb: 978-0-367-25523-7: **£120.00**

Pb: 978-0-367-25525-1: **£19.99**

eBook: 978-0-429-28825-8

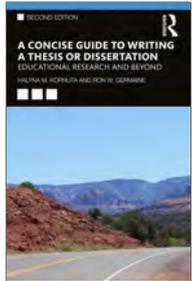
Prev. Ed Pb: 978-0-415-46749-0

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Halyna M. Kornuta and Ron W. Germaine

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

Routledge

**Market:** Research Methods

May 2019: 5.06 x 7.81: 134pp

Hb: 978-0-367-17457-6: **£110.00**

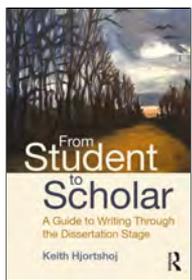
Pb: 978-0-367-17458-3: **£14.99**

eBook: 978-0-429-05688-8

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## From Student to Scholar

A Guide to Writing Through the Dissertation Stage



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

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

actually enter.

Routledge

**Market:** Composition

August 2018: 6 x 9: 204pp

Hb: 978-1-138-56942-3: **£120.00**

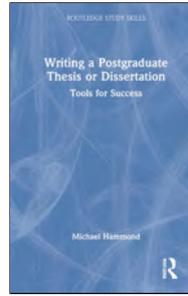
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Tools for Success



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**Market:** Education / Academic Writing

July 2022: 5.5 x 8.5: 160pp

Hb: 978-0-367-75281-1: **£120.00**

Pb: 978-0-367-75282-8: **£16.99**

eBook: 978-1-003-16182-0

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2nd Edition

## Thesis and Dissertation Writing in a Second Language

A Handbook for Students and their Supervisors



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

Routledge

**Market:** Education

August 2019: 6.14 x 9.21: 248pp

Hb: 978-1-138-04869-0: **£110.00**

Pb: 978-1-138-04870-6: **£26.99**

eBook: 978-1-315-17002-2

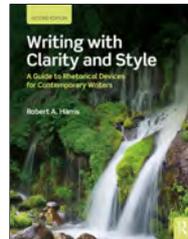
Prev. Ed Pb: 978-0-415-37173-5

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## Writing with Clarity and Style

A Guide to Rhetorical Devices for Contemporary Writers



Robert A. Harris

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

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December 2017: 8.25 x 11: 232pp

Hb: 978-1-138-56010-9: **£120.00**

Pb: 978-1-138-56009-3: **£34.99**

eBook: 978-0-203-71204-7

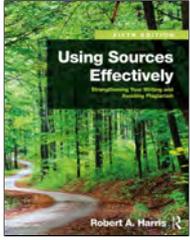
Prev. Ed Pb: 978-1-884-58548-7

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Strengthening Your Writing and Avoiding Plagiarism



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throughout the text.

Routledge

**Market:** Research Methods and Statistics

January 2017: 8.25 x 11: 210pp

Hb: 978-1-138-28966-6: £150.00

Pb: 978-1-138-28968-0: £48.99

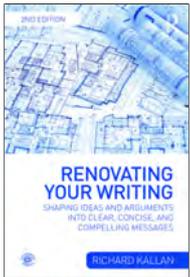
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July 2017: 6.14 x 9.21: 190pp

Hb: 978-1-138-72676-5: £120.00

Pb: 978-1-138-72677-2: £24.99

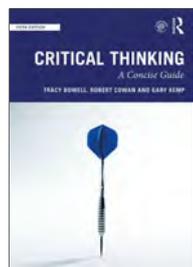
eBook: 978-1-315-18660-3

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A Concise Guide



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

We are frequently confronted with *arguments*. *Critical Thinking* equips students with the concepts and techniques used in the analysis and assessment of arguments whatever the context. Through precise and accessible discussion, this book provides the tools to become a successful critical thinker, who can act and believe in accordance with good reasons, and who can articulate and make explicit those reasons.

This fifth edition has been revised and updated throughout, including an expanded range of 'complete examples', the introduction of Venn diagrams, and the discussion of fake news and related phenomena arising in the contemporary scene.

Routledge

**Market:** Philosophy

August 2019: 6.85 x 9.69: 348pp

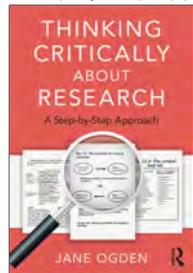
Hb: 978-0-815-37142-7: **£120.00**Pb: 978-0-815-37143-4: **£32.99**

eBook: 978-1-351-24373-5

Prev. Ed Pb: 978-0-415-82092-9

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

A Step by Step Approach



Jane Ogden

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

Routledge

**Market:** Critical Thinking

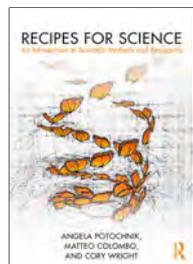
December 2018: 6.14 x 9.21: 176pp

Hb: 978-0-367-00019-6: **£120.00**Pb: 978-0-367-00020-2: **£32.99**

eBook: 978-0-429-44496-8

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

An Introduction to Scientific Methods and Reasoning



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

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essential for any college student's basic scientific education.

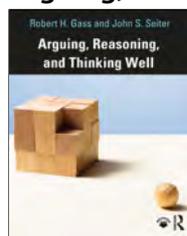
Routledge

**Market:** Philosophy / Critical Thinking

August 2018: 7 x 10: 348pp

Hb: 978-1-138-92072-9: **£120.00**Pb: 978-1-138-92073-6: **£39.99**

eBook: 978-1-315-68687-5

\* For full contents and more information, visit: [www.routledge.com/9781138920736](http://www.routledge.com/9781138920736)**Arguing, Reasoning, and Thinking Well**

Robert Gass and John Seiter

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

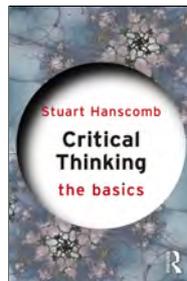
Routledge

**Market:** Communication

June 2019: 280pp

Hb: 978-0-815-37432-9: **£140.00**Pb: 978-0-815-37433-6: **£68.99**

eBook: 978-1-351-24249-3

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

Stuart Hanscomb, University of Glasgow, UK

Series: *The Basics*

*Critical Thinking: The Basics* is an accessible and engaging introduction to the field of critical thinking, drawing on philosophy, communication and psychology. Emphasising its relevance to decision making (in personal, professional and civic life), academic literacy and personal development, this book supports the reader in understanding and developing their knowledge and skills.

Routledge

**Market:** Philosophy

November 2016: 5.06 x 7.81: 260pp

Hb: 978-1-138-82623-6: **£84.99**Pb: 978-1-138-82624-3: **£18.99**

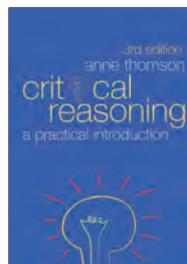
eBook: 978-1-315-73946-5

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3rd Edition

**Critical Reasoning**

A Practical Introduction



Anne Thomson

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

assess the credibility of evidence and authorities and approach any topic with the ability to reason and think critically.

Routledge

**Market:** Philosophy, Critical Thinking

September 2008: 6.85 x 9.69: 256pp

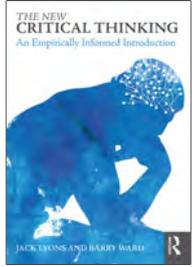
Hb: 978-0-415-44586-3: **£120.00**Pb: 978-0-415-44587-0: **£32.99**

eBook: 978-0-203-87099-0

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## The New Critical Thinking

An Empirically Informed Introduction



Jack Lyons and Barry Ward

Merely learning about logic and fallacious reasoning will not produce effective critical thinkers. Many intellectual errors derive from our reliance on intuitive heuristics. Also, properly assessing premises is crucial in the Internet age. This highly innovative textbook incorporates contemporary psychology, epistemology, and philosophy of science to address both problems, providing an experienced, but fresh, hands-on approach to traditional critical thinking material: assessing deductive and inductive arguments, reconstructing, identifying and diagramming arguments, and causal and probabilistic inference. It also treats real-world issues that are typically neglected.

Routledge

Market: Philosophy / Critical Thinking

August 2017: 7 x 10: 380pp

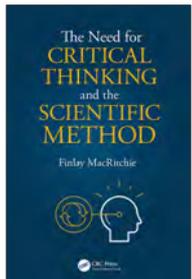
Hb: 978-1-138-68747-9: £120.00

Pb: 978-1-138-68748-6: £56.99

eBook: 978-1-315-54228-7

\* For full contents and more information, visit: [www.routledge.com/9781138687486](http://www.routledge.com/9781138687486)

## The Need for Critical Thinking and the Scientific Method



Finlay MacRitchie, Kansas State University, Manhattan, USA

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

CRC Press

Market: Chemistry

May 2018: 6.14 x 9.21: 152pp

Hb: 978-0-815-36815-1: £125.00

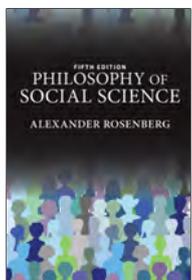
Pb: 978-0-815-36775-8: £39.99

eBook: 978-1-351-25587-5

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

5th Edition

## Philosophy of Social Science



Alexander Rosenberg

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

Routledge

July 2015: 6 x 9: 360pp

Hb: 978-0-367-09807-0: £120.00

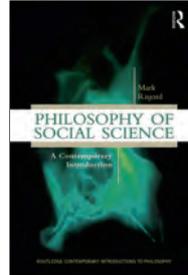
Pb: 978-0-813-34973-2: £39.99

eBook: 978-0-429-49484-0

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

## Philosophy of Social Science

A Contemporary Introduction



Mark Risjord, Emory University, USA

Series: *Routledge Contemporary Introductions to Philosophy*

*Philosophy of Social Science: A Contemporary Introduction* examines the perennial questions of philosophy by engaging with the empirical study of society. The book offers a comprehensive overview of debates in the field, with special attention to questions arising from new research programs in the social sciences. The text uses detailed examples of social scientific research to motivate and illustrate the philosophical discussion. Topics include the relationship of social policy to social science, interpretive research, action explanation, game theory, social scientific accounts of norms, joint intentionality, reductionism, causal modeling, case study research, and

experimentation.

Routledge

Market: Philosophy

May 2014: 6.14 x 9.21: 302pp

Hb: 978-0-415-89824-9: £120.00

Pb: 978-0-415-89825-6: £36.99

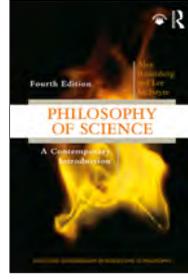
eBook: 978-0-203-80254-0

\* For full contents and more information, visit: [www.routledge.com/9780415898256](http://www.routledge.com/9780415898256)

4th Edition

## Philosophy of Science

A Contemporary Introduction



Alex Rosenberg and Lee McIntyre

Series: *Routledge Contemporary Introductions to Philosophy*

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

Routledge

Market: Philosophy

November 2019: 6 x 9: 308pp

Hb: 978-1-138-33148-8: £120.00

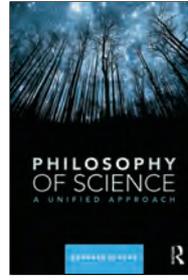
Pb: 978-1-138-33151-8: £39.99

eBook: 978-0-429-44726-6

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

## Philosophy of Science

A Unified Approach



Gerhard Schurz, Dusseldorf University, Germany

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

Routledge

Market: Philosophy

November 2013: 6 x 9: 480pp

Hb: 978-0-415-82934-2: £120.00

Pb: 978-0-415-82936-6: £42.99

eBook: 978-0-203-36627-1

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

## Doing Academic Research

A Practical Guide to Research Methods and Analysis



Ted Gourellos, Joshua R. Hammonds and Maridath A. Wilson

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

Routledge

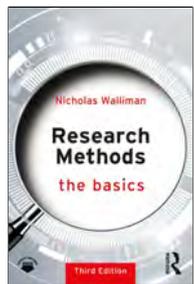
**Market:** Research Methods  
May 2019: 5.06 x 7.81: 208pp  
Hb: 978-0-367-20791-5: **£110.00**  
Pb: 978-0-367-20793-9: **£14.99**  
eBook: 978-0-429-26355-2

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

3rd Edition

## Research Methods

The Basics



Nicholas Walliman, Oxford Brookes University, UK

*Series: The Basics*

*Research Methods: The Basics* is an accessible, user-friendly introduction to the different aspects of research theory, methods and practice. This third edition provides an expanded and fully updated resource suitable for students and practitioners in a wide range of disciplines including the natural sciences, social sciences and humanities.

It is structured in two parts - the first covers the nature of knowledge and the reasons for doing research, the second explains the specific methods used to conduct an effective research project and how to propose, plan, carry out and write up a research project.

Routledge

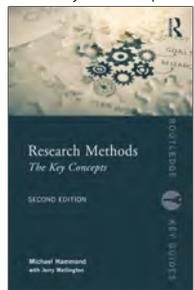
**Market:** Research Methods/Sociology  
December 2021: 5.06 x 7.81: 280pp  
Hb: 978-0-367-69407-4: **£120.00**  
Pb: 978-0-367-69408-1: **£16.99**  
eBook: 978-1-003-14169-3  
Prev. Ed Pb: 978-1-138-69399-9

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

2nd Edition

## Research Methods

The Key Concepts



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

*Series: Routledge Key Guides*

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

Routledge

**Market:** Research Methods / Social Science  
September 2020: 5.5 x 8.5: 232pp  
Hb: 978-0-367-17873-4: **£84.99**  
Pb: 978-0-367-17874-1: **£16.99**  
eBook: 978-0-429-05816-5  
Prev. Ed Pb: 978-0-415-59983-2

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

## A-Z of Digital Research Methods



Catherine Dawson

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

Routledge

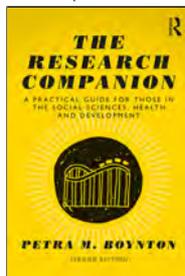
**Market:** Research Methods/Digital  
July 2019: 6.85 x 9.69: 424pp  
Hb: 978-1-138-48679-9: **£110.00**  
Pb: 978-1-138-48680-5: **£22.99**  
eBook: 978-1-351-04467-7

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

2nd Edition

## The Research Companion

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



Petra M. Boynton, University College London, UK

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

Routledge

**Market:** Social Sciences/Psychology  
September 2016: 6.14 x 9.21: 300pp  
Hb: 978-1-138-91760-6: **£120.00**  
Pb: 978-1-138-91761-3: **£42.99**  
eBook: 978-1-315-68890-9  
Prev. Ed Pb: 978-1-841-69305-7

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

## Literature Review and Research Design

A Guide to Effective Research Practice



Dave Harris

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

Routledge

**Market:** Research Methods  
December 2019: 6.14 x 9.21: 176pp  
Hb: 978-0-367-25036-2: **£110.00**  
Pb: 978-0-367-25037-9: **£22.99**  
eBook: 978-0-429-28566-0

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

4th Edition

**Principles of Research in Behavioral Science**

International Student Edition



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

This book provides a comprehensive overview of research methods in the behavioral sciences, focusing primarily on the conceptual issues inherent in conducting research. It covers topics that are often omitted from other texts, including measurement issues, correlational research, qualitative research, and integrative literature reviews. The book also includes discussions of diversity issues as they related to behavioral science research. New to this edition are chapter boxes that focus on applied issues related to each chapter topic. Throughout the book, readable examples and informative tables

and figures are provided.

Routledge

**Market:** Research Methods

April 2020: 7 x 10: 852pp

Hb: 978-1-138-68787-5: **£120.00**

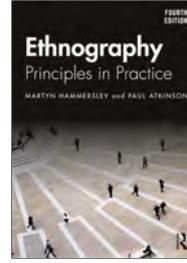
eBook: 978-1-315-45008-7

International Edition Paperback: 978-0-367-51477-8: **£44.99**\* For full contents and more information, visit: [www.routledge.com/9780367514778](http://www.routledge.com/9780367514778)

4th Edition

**Ethnography**

Principles in Practice



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

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

Routledge

**Market:** Ethnography, Social Research Methods and Sociology

April 2019: 6.85 x 9.69: 292pp

Hb: 978-1-138-50445-5: **£130.00**Pb: 978-1-138-50446-2: **£36.99**

eBook: 978-1-315-14602-7

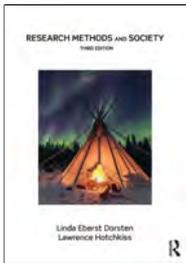
Prev. Ed Pb: 978-0-415-39605-9

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

3rd Edition

**Research Methods and Society**

Foundations of Social Inquiry



**Linda Eberst Dorsten** and **Lawrence Hotchkiss**

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

Routledge

**Market:** Research Methods/Sociology

December 2018: 7 x 10: 410pp

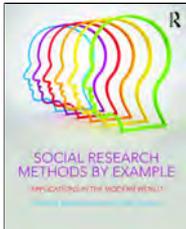
Hb: 978-0-815-36616-4: **£200.00**Pb: 978-0-815-36615-7: **£79.99**

eBook: 978-1-351-25981-1

Prev. Ed Pb: 978-0-205-87991-5

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

Applications in the Modern World



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

*Social Research Methods by Example* shows students how researchers carry out work on the cutting edge of social science. The authors illustrate every point through engaging, thought-provoking examples from real research. The language is jargon-free, making research methods less intimidating and more relatable. It not only introduces students to the principles of social science research, but gives them a toolbox to carry out their own. By the time they are finished with the book, students will be conversant with many of the most important studies in

the history of social science. They will understand not only how to conduct research, but also how the field has evolved over time.

Routledge

**Market:** Social Science / Research

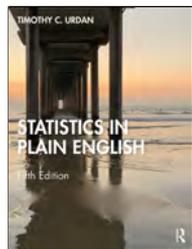
July 2017: 436pp

Hb: 978-0-415-79090-1: **£160.00**Pb: 978-0-415-79091-8: **£79.99**

eBook: 978-1-315-21279-1

\* For full contents and more information, visit: [www.routledge.com/9780415790918](http://www.routledge.com/9780415790918)

5th Edition

**Statistics in Plain English**

Timothy C. Urdan, Santa Clara University

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

Routledge

**Market:** Statistics

March 2022: 8.25 x 11: 322pp

Hb: 978-0-367-34282-1: **£150.00**Pb: 978-0-367-34283-8: **£32.99**

eBook: 978-1-003-00645-9

Prev. Ed Pb: 978-1-138-83834-5

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

Estimation, Open Science, and Beyond



Geoff Cumming, La Trobe University, Australia and Robert Calin-Jageman

This accessible informal text is the first introductory statistics book to use an estimation approach from the get go to help readers better understand effect sizes, confidence intervals, and meta-analysis. In Chapter 6 the NHST approach is also introduced and the authors demonstrate how to translate back and forth between these two techniques. The Open Science framework which promotes data replication is integrated throughout. The book promotes critical thinking, comprehension, and retention. It can be used with or without the free ESCI software and videos which feature interactive simulations of key concepts. Exercises

with commentary allow readers to test their knowledge of the topic.

Routledge

**Market:** Statistics

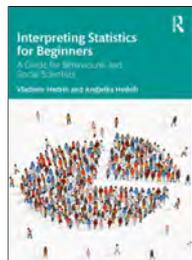
October 2016: 7 x 10: 594pp

Hb: 978-1-138-82551-2: **£160.00**Pb: 978-1-138-82552-9: **£56.99**

eBook: 978-1-315-70860-7

\* For full contents and more information, visit: [www.routledge.com/9781138825529](http://www.routledge.com/9781138825529)**Interpreting Statistics for Beginners**

A Guide for Behavioural and Social Scientists



Vladimir Hedrih and Andjelka Hedrih

*Interpreting Statistics for Beginners* teaches readers to correctly read and interpret results of basic statistical procedures as they are presented in scientific literature, and to understand what they can and cannot infer from such results.

Written in an easy-to-read style and focusing on explaining concepts behind statistical calculations, the book is most helpful for readers with no previous training in statistics, and also those wishing to bridge the conceptual gap between doing the statistical calculations and interpreting the results.

Routledge

**Market:** Research Methods and Statistics

February 2022: 6.85 x 9.69: 204pp

Hb: 978-0-367-62051-6: **£120.00**Pb: 978-0-367-61852-0: **£32.99**

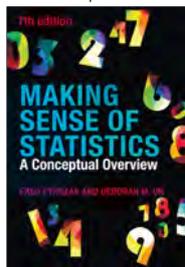
eBook: 978-1-003-10771-2

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

7th Edition

**Making Sense of Statistics**

A Conceptual Overview



Fred Pyrczak and Deborah M. Oh, California State University, USA

*Making Sense of Statistics* is the ideal introduction to the concepts of descriptive and inferential statistics for students undertaking their first research project. It presents each statistical concept in a series of short steps, then uses worked examples and exercises to enable students to apply their own learning. It focuses on presenting the why as well as the how of statistical concepts, rather than computations and formulae, so is suitable for students from all disciplines regardless of mathematical background. Only statistical techniques that are almost universally included in introductory statistics courses, and widely

reported in journals, have been included.

Routledge

**Market:** Research Methods and Statistics

June 2018: 8.25 x 11: 252pp

Hb: 978-1-138-89477-8: **£140.00**Pb: 978-1-138-89476-1: **£44.99**

eBook: 978-1-315-17980-3

Prev. Ed Pb: 978-1-936-52327-6

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2nd Edition

**Statistical Methods**

An Introduction to Basic Statistical Concepts and Analysis



Cheryl Ann Willard

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

Routledge

**Market:** Research Methods and Statistics

March 2020: 7 x 10: 364pp

Hb: 978-0-367-20351-1: **£150.00**Pb: 978-0-367-20352-8: **£49.99**

eBook: 978-0-429-26103-9

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

9th Edition

**Interpreting Basic Statistics**

A Workbook Based on Excerpts from Journal Articles



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

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

Routledge

**Market:** Research Methods and Statistics

September 2021: 7 x 10: 258pp

Hb: 978-0-367-56051-5: **£160.00**Pb: 978-0-367-56197-0: **£52.99**

eBook: 978-1-003-09676-4

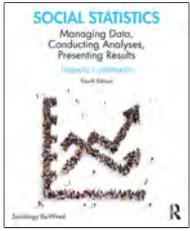
Prev. Ed Pb: 978-0-415-78793-2

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

4th Edition

**Social Statistics**

Managing Data, Conducting Analyses, Presenting Results



Thomas J. Linneman, The College of William and Mary, USA  
 Series: *Sociology Re-Wired*

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

techniques fit together, and how to use the techniques in combination with one another. Author created web resource accompanies the text.

Routledge

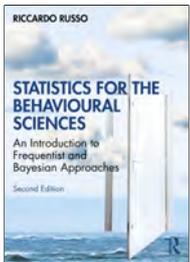
Market: Social Science / Statistics  
 December 2021: 678pp  
 Hb: 978-1-032-11623-5: **£160.00**  
 Pb: 978-1-032-11528-3: **£84.99**  
 eBook: 978-1-003-22077-0

\* For full contents and more information, visit: [www.routledge.com/9781032115283](http://www.routledge.com/9781032115283)

2nd Edition

**Statistics for the Behavioural Sciences**

An Introduction to Frequentist and Bayesian Approaches



Riccardo Russo

This accessible textbook is for those without a mathematical background (just some notions of basic algebra are sufficient) and provides a comprehensive introduction to all topics covered in introductory behavioural science statistics courses.

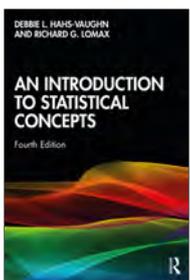
This timely and highly readable text will be invaluable to undergraduate students of psychology and research methods courses in related disciplines, as well as anyone with an interest in understanding and applying the basic concepts and inferential techniques associated with statistics in the behavioural sciences.

Routledge

Market: Research Methods  
 November 2020: 6.85 x 9.69: 330pp  
 Hb: 978-1-138-71148-8: **£120.00**  
 Pb: 978-1-138-71150-1: **£32.99**  
 eBook: 978-1-315-20041-5

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

4th Edition

**An Introduction to Statistical Concepts**

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

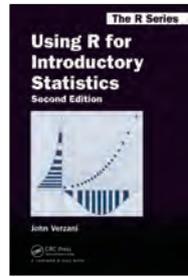
This comprehensive, flexible text is used in both one- and two-semester courses to review introductory through intermediate statistics. Instructors select the topics that are most appropriate for their course. Its conceptual approach helps students more easily understand the concepts and interpret SPSS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

Routledge

Market: Statistics  
 February 2020: 7 x 10: 1186pp  
 Hb: 978-1-138-65055-8: **£120.00**  
 eBook: 978-1-315-62435-8  
 Prev. Ed Hb: 978-0-415-88005-3

\* For full contents and more information, visit: [www.routledge.com/9781138650558](http://www.routledge.com/9781138650558)

2nd Edition

**Using R for Introductory Statistics**

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

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

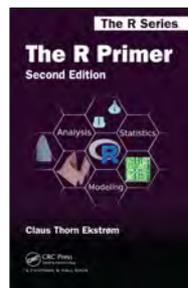
The second edition of a bestselling textbook, *Using R for Introductory Statistics* guides students through the basics of R, helping them overcome the sometimes steep learning curve. The author does this by breaking the material down into small, task-oriented steps. The second edition maintains the features that made the first edition so popular, while updating data, examples, and changes to R in line with the current version.

Chapman and Hall/CRC

Market: Statistics  
 June 2014: 6.14 x 9.21: 518pp  
 Hb: 978-1-466-59073-1: **£54.99**  
 eBook: 978-1-315-37308-9  
 Prev. Ed Hb: 978-1-584-88450-7

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

2nd Edition

**R Primer**

Claus Thorn Ekström, University of Copenhagen, Denmark

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

Newcomers to R are often intimidated by the command-line interface, the vast number of functions and packages, or the processes of importing data and performing a simple statistical analysis. The *R Primer* provides a collection of concise examples and solutions to R problems frequently encountered by new users of this statistical software. This new edition adds coverage of R Studio and reproducible research.

Chapman and Hall/CRC

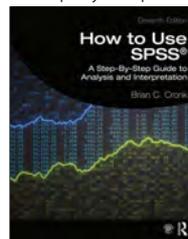
Market: Statistics  
 March 2017: 5.5 x 8.5: 426pp  
 Hb: 978-1-498-77255-6: **£100.00**  
 Pb: 978-1-138-63197-7: **£46.99**  
 eBook: 978-1-315-15441-1

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

11th Edition

**How to Use SPSS®**

A Step-By-Step Guide to Analysis and Interpretation



Brian C. Cronk

*How to Use SPSS* is designed with the novice computer user in mind and for people who have no previous experience using SPSS. Each chapter is divided into short sections that describe the statistic being used, important underlying assumptions, and how to interpret the results and express them in a research report.

New to this edition:

Now in full color with additional screenshots; Fully updated to reflect SPSS version 26 (and prior versions); Changes in nonparametric tests; Model View incorporated Data and real

output are now available for all *Phrasing Results* sections.

Routledge

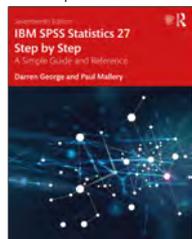
Market: Research Methods and Statistics  
 October 2019: 8.25 x 11: 228pp  
 Hb: 978-0-367-35567-8: **£170.00**  
 Pb: 978-0-367-35569-2: **£52.99**  
 eBook: 978-0-429-34032-1

\* For full contents and more information, visit: [www.routledge.com/9780367355692](http://www.routledge.com/9780367355692)

17th Edition

**IBM SPSS Statistics 27 Step by Step**

A Simple Guide and Reference



Darren George and Paul Mallery

*IBM SPSS Statistics 27 Step by Step* takes a straightforward, step-by-step approach that makes SPSS software clear to beginners and experienced researchers alike. Extensive use of four-color screen shots, clear writing, and step-by-step boxes guide readers through the program. Output for each procedure is explained and illustrated, and every output term is defined.

New to this edition:

Full coverage of the 11 new procedures for power analysis; Effect sizes included throughout; Bubble charts in chapter 5; Bayesian statistics

Routledge

**Market:** Multivariate Statistics/Statistics

December 2021: 8.25 x 11: 418pp

Hb: 978-1-032-07090-2: **£180.00**Pb: 978-1-032-07094-0: **£59.99**

eBook: 978-1-003-20533-3

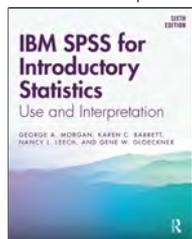
Prev. Ed Pb: 978-0-367-17435-4

\* For full contents and more information, visit: [www.routledge.com/9781032070940](http://www.routledge.com/9781032070940)

6th Edition

**IBM SPSS for Introductory Statistics**

Use and Interpretation



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

Designed to help students analyze and interpret research data using IBM SPSS, this user-friendly book, written in easy-to-understand language, shows readers how to choose the appropriate statistic based on the design, and to interpret outputs appropriately. The sixth edition includes updated screenshots and instructions for IBM SPSS 24 and Windows 10, and adds helpful callouts to make the book even clearer and

easy to use.

Routledge

**Market:** Statistics

July 2019: 8.25 x 11: 266pp

Hb: 978-1-138-57822-7: **£140.00**Pb: 978-1-138-57821-0: **£38.99**

eBook: 978-0-429-28765-7

\* For full contents and more information, visit: [www.routledge.com/9781138578210](http://www.routledge.com/9781138578210)**Data Analytics for the Social Sciences**

Applications in R



G. David Garson

This book presents a complete exploration of statistical data analysis in R for a wide variety of social science disciplines and quantitative methods courses. Covering all the bases including multilevel modeling and ANOVA / ANCOVA, the book also goes further by looking at topics such as: neural networks to implement deep learning, thus solving complex problems other algorithms cannot; how to deal with missing values in real world data; and the use of text analytics. R code input and output is included. Suitable for all advanced level undergraduate and postgraduate students learning statistical data analysis.

Routledge

**Market:** Research Methods

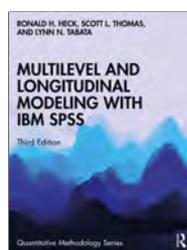
November 2021: 8.25 x 11: 704pp

Hb: 978-0-367-62429-3: **£210.00**Pb: 978-0-367-62427-9: **£74.99**

eBook: 978-1-003-10939-6

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

3rd Edition

**Multilevel and Longitudinal Modeling with IBM SPSS**

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

*Series: Quantitative Methodology Series*

This text demonstrates how to use the multilevel- and longitudinal-modeling techniques available in IBM SPSS (Version 26). Adopting a workbook format, the text walks readers through setting up, running, and interpreting a variety of different types of multilevel and longitudinal models using the linear mixed-effects model (MIXED and GENLINMIXED) platforms in SPSS. This text is an essential resource for graduate students

taking courses on multilevel, longitudinal, and latent variable modeling, multivariate statistics, or advanced quantitative techniques.

Routledge

**Market:** Statistics

April 2022: 8.25 x 11: 494pp

Hb: 978-0-367-42460-2: **£150.00**Pb: 978-0-367-42461-9: **£42.99**

eBook: 978-0-367-82427-3

Prev. Ed Pb: 978-0-415-81711-0

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7th Edition

**Advanced and Multivariate Statistical Methods**

Practical Application and Interpretation



Craig A. Mertler, Arizona State University, USA, Rachel A. Vannatta and Kristina N. LaVenita, Bowling Green State University

Ideal for non-math majors, *Advanced and Multivariate Statistical Methods* teaches students to interpret, present, and write up results for each statistical technique without overemphasizing advanced math. This highly applied approach covers the why, what, when and how of advanced and multivariate statistics in a way that is neither too technical nor too mathematical. Students also learn how to compute each technique using SPSS software.

New to the seventh edition: Updated to SPSS 26 All screenshots and images in full colour Fully updated ancillaries including how to videos for both statistical techniques and SPSS walkthroughs

Routledge

**Market:** Research Methods and Statistics

November 2021: 8.25 x 11: 350pp

Hb: 978-0-367-49720-0: **£300.00**Pb: 978-0-367-49747-7: **£120.00**

eBook: 978-1-003-04722-3

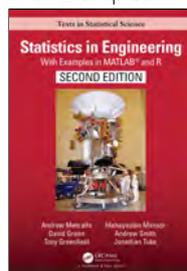
Prev. Ed Pb: 978-1-138-28973-4

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2nd Edition

**Statistics in Engineering**

With Examples in MATLAB® and R



Andrew Metcalfe, University of Adelaide, Australia, David Green, Tony Greenfield, Greenfield Research, UK, Mayhayaudin Mansor, Andrew Smith and Jonathan Tuke  
*Series: Chapman & Hall/CRC Texts in Statistical Science*

This is a textbook for an undergraduate course in statistics for engineers with a minimal calculus prerequisite. The second edition differs from existing books in three main aspects: it is the only introductory statistics textbook written for engineers that uses R throughout the text, there is an emphasis on statistical methods most relevant to engineers that are illustrated with practical applications, and there is an emphasis on random number generation and simulation, all very useful features in

engineering.

Chapman and Hall/CRC

January 2019: 7 x 10: 810pp

Hb: 978-1-439-89547-4: **£79.99**Pb: 978-0-367-57062-0: **£42.99**

eBook: 978-1-315-11723-2

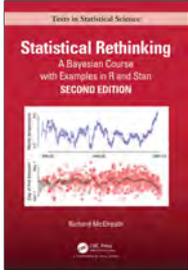
Prev. Ed Hb: 978-0-412-49220-4

\* For full contents and more information, visit: [www.routledge.com/9781439895474](http://www.routledge.com/9781439895474)

2nd Edition

## Statistical Rethinking

A Bayesian Course with Examples in R and STAN



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

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

The very popular *Statistical Rethinking: A Bayesian Course with Examples in R and Stan*, Second Edition builds readers' knowledge of and confidence in statistical modeling. Reflecting the need for even minor programming in today's model-based statistics, the book pushes readers to perform step-by-step calculations that are usually automated. This unique computational approach ensures that readers understand enough of the details to make reasonable choices and interpretations in their own modeling work.

Chapman and Hall/CRC

**Market:** Statistics

March 2020: 7 x 10: 612pp

Hb: 978-0-367-13991-9: **£74.99**

eBook: 978-0-429-02960-8

Prev. Ed Hb: 978-1-482-25344-3

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

## Data Science

A First Introduction



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

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

*Data Science: A First Introduction* focuses on using the R programming language in Jupyter notebooks to perform data manipulation and cleaning, create effective visualizations, and extract insights from data using classification, regression, clustering, and inference.

The text emphasizes workflows that are clear, reproducible, and shareable, and includes coverage of the basics of version control. All source code is available online, demonstrating the use of good reproducible project workflows.

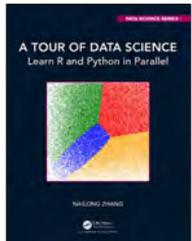
Chapman and Hall/CRC  
Market: Statistics

May 2022: 7 x 10: 456pp  
Hb: 978-0-367-53217-8: £112.00  
Pb: 978-0-367-52468-5: £44.99  
eBook: 978-1-003-08097-8

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## A Tour of Data Science

Learn R and Python in Parallel



Nailong Zhang

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

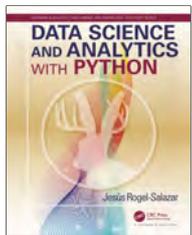
This book covers the fundamentals of data science, including programming, statistics, optimization, and machine learning in a single and short book. It does not cover everything, but instead, teaches the key concepts and topics. It also covers two of the most popular programming languages used in Data Science, R and Python, in one source.

Chapman and Hall/CRC

Market: Computer Science  
November 2020: 7 x 10: 216pp  
Hb: 978-0-367-89706-2: £115.00  
Pb: 978-0-367-89586-0: £44.99  
eBook: 978-1-003-02064-6

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

## Data Science and Analytics with Python



Jesus Rogel-Salazar, Imperial College London, UK

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

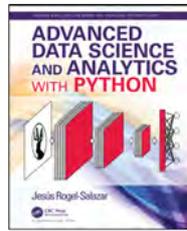
The book is designed for practitioners in data science and data analytics in both academic and business environments. The aim is to present the reader with the main concepts used in data analytics using tools developed in Python, such as SciKit Learn, Pandas, Numpy, etc. The use of Python is of particular benefit given its recent popularity in the data science community, and the book can be used by seasoned programmers and newcomers alike.

Chapman and Hall/CRC

Market: Computer Science & Engineering  
August 2017: 6 x 9: 400pp  
Hb: 978-1-138-04317-6: £105.00  
Pb: 978-1-498-74209-2: £48.99  
eBook: 978-1-498-74211-5

\* For full contents and more information, visit: [www.routledge.com/9781498742092](http://www.routledge.com/9781498742092)

## Advanced Data Science and Analytics with Python



Jesus Rogel-Salazar, Imperial College London, UK

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

The book is intended for practitioners in data science and data analytics in both academic and business environments. It aims to present the reader with concepts in data science and analytics that were deemed to be more advanced or simply out of scope in the author's first book, and are used in data analytics using tools developed in Python such as SciKit Learn, Pandas, Numpy, etc. The use of Python is of particular benefit given its recent

popularity in the data science community. The book is therefore a reference to be used by seasoned programmers and newcomers alike and the key benefit is the practical approach presented throughout the book.

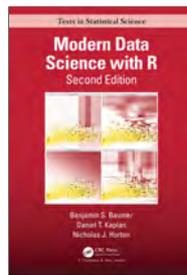
Chapman and Hall/CRC

Market: Computer Science and Engineering  
May 2020: 420pp  
Hb: 978-0-429-44661-0: £100.00  
Pb: 978-1-138-31506-8: £44.99  
eBook: 978-0-429-44664-1

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

2nd Edition

## Modern Data Science with R



Benjamin S. Baumer, Smith College, Northampton, MA, Daniel T. Kaplan, Macalester College, Saint Paul, Minnesota, USA and Nicholas J. Horton, Amherst College, Amherst, MA

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

New data technologies and database systems facilitate scraping data and merging information from different sources and formats and restructuring data into a form suitable for analysis.

State-of-the-art workflow and tools foster well-documented and reproducible analysis. Modern statistical methods allow the analyst to fit and assess models as well as to undertake supervised or unsupervised learning to extract information.

Contemporary data science requires tight integration of these

statistics, computing, data skills, mathematics, and communication. The text is intended for readers with some background in statistics and modest prior experience in scripting and programming.

Chapman and Hall/CRC

Market: Statistics  
April 2021: 7 x 10: 650pp  
Hb: 978-0-367-19149-8: £74.99  
eBook: 978-0-429-20071-7  
Prev. Ed Hb: 978-1-498-72448-7

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

2nd Edition

## Big Data and Social Science

Data Science Methods and Tools for Research and Practice



Edited by Ian Foster, University of Chicago, Illinois, USA,

Rayid Ghani, University of Chicago, Illinois, USA, Ron S.

Jarmin, Frauke Kreuter, University of Maryland, USA;

University of Mannheim, Germany; and Institute for

Employment Research, Germany and Julia Lane, New York

University; American Institutes for Research, USA

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

This classroom-tested book fills a major gap in graduate- and professional-level data science and social science education. It can be used to train a new generation of social data scientists to tackle real-world problems and improve the skills and

competencies of applied social scientists and public policy practitioners. It empowers you to use the massive and rapidly growing amounts of available data to interpret economic and social activities in a scientific and rigorous manner.

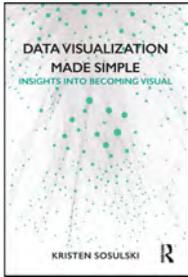
Chapman and Hall/CRC

Market: Statistics  
November 2020: 411pp  
Hb: 978-0-367-34187-9: £120.00  
Pb: 978-0-367-56859-7: £48.99  
eBook: 978-0-429-32438-3

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## Data Visualization Made Simple

Insights into Becoming Visual



Kristen Sosulski, New York University, USA

*Data Visualization Made Simple* is a practical guide to the fundamentals, strategies, and real-world cases for data visualization, an essential skill required in today's information-rich world. With foundations rooted in statistics, psychology, and computer science, data visualization offers practitioners in almost every field a coherent way to share findings from original research, big data, learning analytics, and more. Both novices and seasoned designers in education, business, and other areas can use this book's effective, linear process to develop data visualization literacy and promote exploratory, inquiry-based approaches to visualization problems.

Routledge

**Market:** Education

October 2018: 6 x 9: 284pp

Hb: 978-1-138-50387-8: £130.00

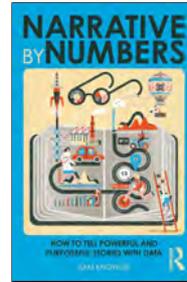
Pb: 978-1-138-50391-5: £32.99

eBook: 978-1-315-14609-6

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How to Tell Powerful and Purposeful Stories with Data



Sam Knowles

*Series: Using Data Better*

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Humans are hardwired to respond to stories and story structure. There are some simple and effective rules of data-driven storytelling that will help everyone tell more compelling, evidence-based stories, whoever they need to convince to create positive change. *Narrative by Numbers* shows you how.

Routledge

**Market:** Business & Management

March 2018: 5.06 x 7.81: 176pp

Hb: 978-0-815-35315-7: £120.00

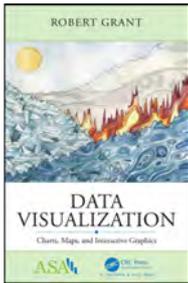
Pb: 978-0-815-35314-0: £32.99

eBook: 978-1-351-13722-5

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

## Data Visualization

Charts, Maps, and Interactive Graphics



Robert Grant, Kingston University & St George's, University of London

*Series: ASA-CRC Series on Statistical Reasoning in Science and Society*

This is the age of data. There are more innovations and more opportunities for interesting work with data than ever before, but there is also an overwhelming amount of quantitative information being published every day. Data visualisation has become big business, because communication is the difference between success and failure, no matter how clever the analysis may have been. The ability to visualize data is now a skill in demand across business, government, NGOs and academia. ; *Data Visualization: Charts, Maps, and Interactive Graphics* gives

an overview of a wide range of techniques and challenges, while staying accessible to anyone interested in working with and understanding data.

Chapman and Hall/CRC

**Market:** Statistics

December 2018: 5.5 x 8.5: 246pp

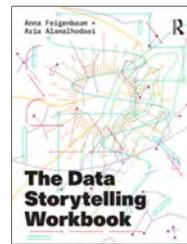
Hb: 978-1-138-55359-0: £79.99

Pb: 978-1-138-70760-3: £22.99

eBook: 978-1-315-20135-1

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

## The Data Storytelling Workbook



Anna Feigenbaum and Aria Alamalhodaei

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

Routledge

**Market:** Media Studies / Journalism / Communication / Visual Arts

March 2020: 7.44 x 9.69: 256pp

Hb: 978-1-138-05210-9: £120.00

Pb: 978-1-138-05211-6: £32.99

eBook: 978-1-315-16801-2

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

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A journey of imagination, exploration, and beautiful data visualizations



Nadieh Bremer and Shirley Wu

*Series: AK Peters Visualization Series*

In *Data Sketches*, Nadieh Bremer and Shirley Wu document the creative and collaborative process behind 24 unique data visualization projects, spanning different topics, technologies, and forms. Features: Technical write-ups with beginner-friendly explanations of core concepts; Practical lessons on data and design challenges; Full-color; Interview with Tamara Munzner; Foreword by Alberto Cairo. This book is perfect for anyone interested or working in data visualization and information

design, especially those who want to take their work to the next level and are inspired by unique and compelling data-driven storytelling.

A K Peters/CRC Press

**Market:** Computer Science

February 2021: 428pp

Hb: 978-0-367-00012-7: £99.99

Pb: 978-0-367-00008-0: £38.99

eBook: 978-0-429-44501-9

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