STYLUS

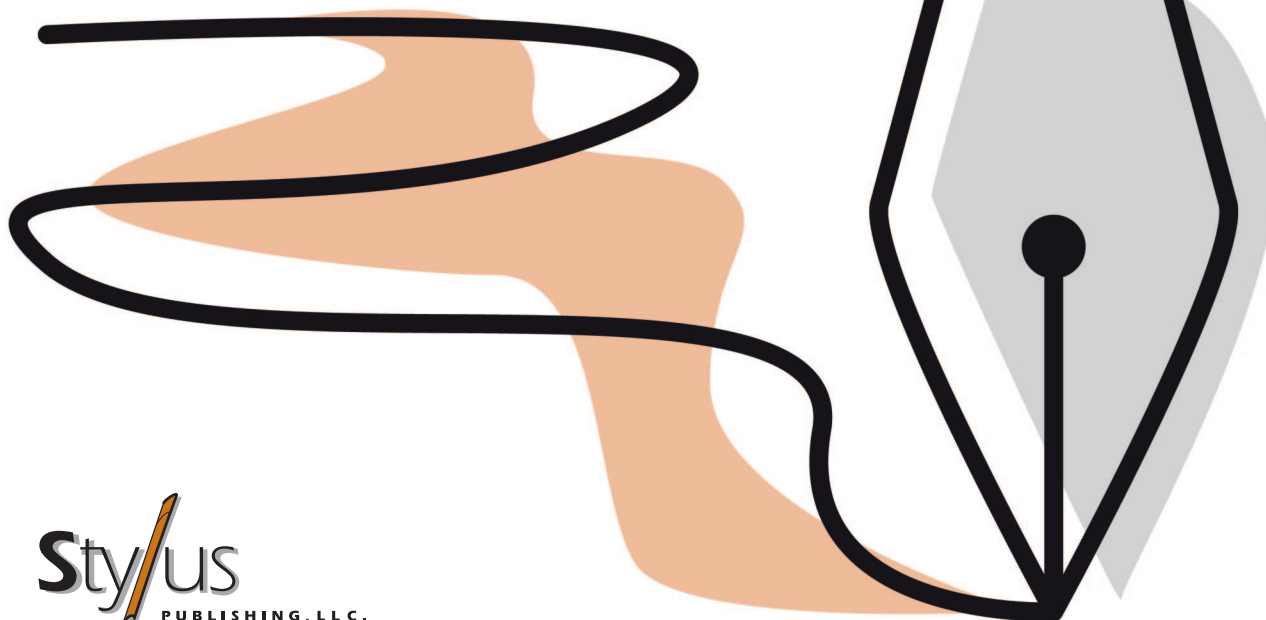## Trade Books
Fall 2020

Baseball Prospectus • CABI • Campus Compact • CSIRO
CSREA • Mercury Learning and Information • Myers Education Press
National Resource Center for The First-Year Experience & Students in Transition
River Publishers • Thorogood Publishing • Trentham Books
UCL IOE Press • World Health Organization

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Fax: 703-661-1547
E-mail: StylusInfo@StylusPub.com

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Contents

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- Veterinary Science/ Medicine

Catalog design by *egads*

GENERAL INTEREST

Bandwidth Recovery For Schools

Helping Pre K-12 Students Regain Cognitive Resources Lost to Poverty, Racism, and other Social Marginalization

Cia Verschelden

Are students coming to your class lacking focus, having difficulty connecting with you and their peers, falling behind, or acting out when you instinctively feel they could do better? Do you sometimes feel like you don't have the capacity as a teacher or school leader to give students the support they need to learn and thrive?

Dr. Verschelden makes the case that societal realities—such as poverty, racism, and social marginalization—result in depleted cognitive resources for students and for those who are trying to help them succeed.

Each of us has a finite amount of mental bandwidth, the cognitive resources that are available for learning, development, work, taking care of ourselves and our families, and everything else we have to do. These "attentional resources" are not about how smart we are but about how much of our brain power is available to us for the task at hand. When bandwidth is taken up by the stress of persistent economic insecurity or the negative experiences of racism, classism, homophobia, religious intolerance, sexism, ableism, etc., there is less available for learning and growth. This is as true for young children and youth as for their parents and teachers.

This book is for teachers, parents, school leaders, and members of communities who are interested in the well-being of children and youth and the education of all our children. All of us have a stake in a public school system from which students emerge as fully-formed learners and thinkers and who believe in their ability to affect what happens to them and their communities.
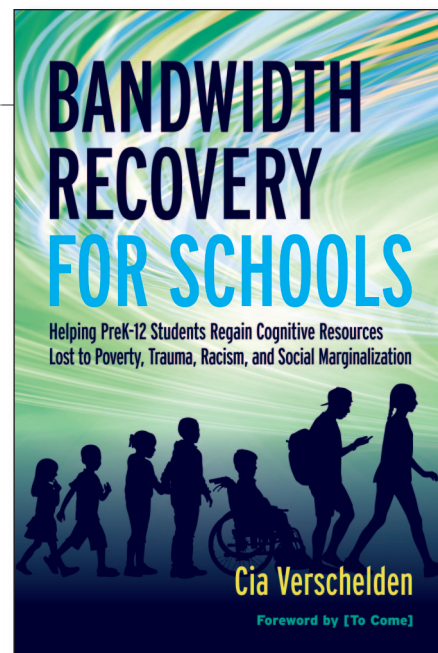
September 2020
192 pp, 6 in x 9 in, 41 illustrations
Paper, Sep 30, 2020, 978 1 64267 077 6, $ 29.95 (S3)
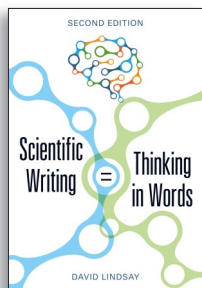**Hardback, 978 1 64267 076 9, $ 125.00 (S5)**
Lib e-book, 978 1 64267 078 3, $ 125.00 (10)
E-book, 978 1 64267 079 0, $ 23.99 (S9)

EDUCATION / SOCIAL JUSTICE

The Author: Cia Verschelden has worked in higher education for over three decades. A residence hall director during her doctoral research, she has also served as a faculty member in social work, sociology, women's studies, American ethnic studies, andnonviolence studies. She is currently the Vice President of Academic and Student Affairs at Malcolm X College in Chicago.

Scientific Writing = Thinking in Words

SECOND EDITION

David Lindsay

Telling people about research is just as important as doing it. But many competent researchers are wary of scientific writing, despite its importance for sharpening scientific thinking, advancing their career, obtaining funding for their work and growing the prestige of their institution.

This second edition of David Lindsay's popular book *Scientific Writing = Thinking in Words* presents a way of thinking about writing that builds on the way good scientists think about research. The simple principles in this book will help you to clarify the objectives of your work and present your results with impact. Fully updated throughout, with practical examples of good and bad writing, an expanded chapter on writing for non-scientists and a new chapter on writing grant applications, this book makes communicating research easier and encourages researchers to write confidently.

- Makes it easy to understand what goes where in scientific publications and, equally importantly, why
- Reinforces principles with examples of good and bad writing
- Addresses new issues for publishing, including open access and predatory journals
- Emphasizes writing effectively in other media that scientists must use, including conference papers, posters, theses, reviews, popular articles and grant applications
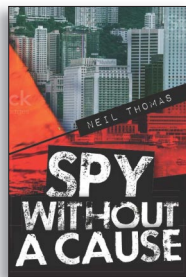
The Author: David Lindsay was a researcher and teacher in animal biology and behavior at the University of Western Australia for 33 years. He initiated formal studies in writing for undergraduate and postgraduate students. Now retired from active research, he teaches scientific writing to scientists all over the world.

June 2020
180 pp, 6 in x 9 in, Illustrations
Paper, 978 1 48631 147 7, $ 24.50 (S3)

SCIENCE COMMUNICATION

Spy Without a Cause

Neil Thomas

With a background of intrigue, corruption and tax avoidance, this intricate novel is set against events in the early 1980s in Britain's Hong Kong, the Manila of Marcos and Lee Kuan Yew's Singapore.

A young publisher traveling through the East on business is confronted with personal greed, kleptocracy, espionage and murder as matters move, Eric Ambler style, out of his control.

In Hong Kong, still British at that time, he first meets Jimmy Chan "a ruthless operator he is supposed to do business with" whose tentacles reach far and wide and prove tricky to escape. A side trip to the Philippines affords him no respite and his contact with the corruption of the Marcos regime only serves to make life more unpleasant as developments take a sinister turn.His brief time in Singapore does not offer the expected relief of a safe haven and the return to Hong Kong sees fresh trouble for him and his associates as the various strands of the plot come together in twists and turns.

In this fast-paced story, an ordinary man, confronted with shady and unsavory characters, becomes accidentally involved with villains in business and government in three different locations who operate according to a different moral code from his own.

The Author: Neil Thomas has written three novels, but *Spy Without a Cause* is the first to deal with government agents, crooked regimes, bent businessmen, femmes fatales, and sharp tax experts. His first novel was *All Through the Night,* a Welsh Western rooted in the 1790s, and his second was *Keeping the Lid On,* a dark story set in a small private school in the early 2000s.

Now Available
360 pp, 6 in x 9 in
Paper, Feb 28, 2020, 978 1 85418 912 7, $ 13.95 (S3)

FICTION / HISTORICAL MYSTERY

GENERAL INTEREST

A Checklist for Dad

Tricia L. Larose

Illustrated by Gwen Le Rest

Ella overhears her parents talking. It sounds like something is wrong with Dad. She decides to make a checklist for Dad to find out if he is okay. Her parents later explain that Dad has cancer. Ella struggles through her emotions as she learns about cancer treatment, cancer prevention, and the role of genetics.

This book will serve as a valuable resource for those who need to discuss a cancer diagnosis with children. By explaining — in simple language with engaging illustrations— what cancer is and what one can expect when diagnosed, *A Checklist for Dad* will aid parents in providing their children with much needed information and comfort in a format that is familiar to them.

In addition to parents, health providers, counselors, teachers, and librarians can use this text to discuss the topic of cancer in a straightforward yet gentle manner.
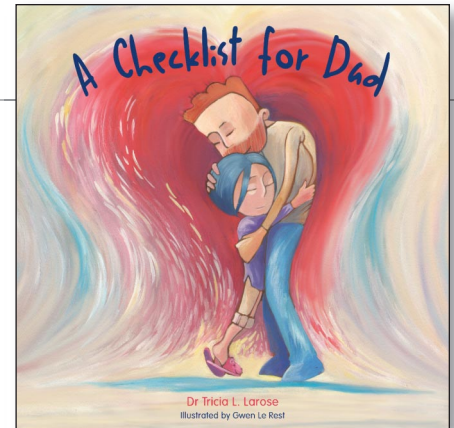
This is the first children's book published by the International Agency for Research on Cancer (IARC). Proceeds from the sale of the book go to the Education and Training Group at IARC to support courses, fellowships, and training of cancer researchers worldwide.

Now Available
66 pp, 7.5 in x 7.5 in, illustrations
Paper, Jan 22, 2020, 978 9 28320 449 7, $ 10.00 (S6)

HEALTH COMMUNICATION

The Author: Dr. Tricia L. Larose is from Sudbury, a city in Ontario, Canada. She holds a PhD in Medicine from the Norwegian University of Science and Technology. Her work is supported by the Research Council of Norway. During her tenure as a postdoctoral scientist at the International Agency for Research on Cancer (IARC), Dr. Larose worked in the Genetic Epidemiology Group in the Section of Genetics.

Ocean Animals

The Weirdest, Smartest and Sneakiest Sea Creatures

Blake Chapman

Illustrated by Astred Hicks

Dive into the incredible world of ocean animals!

Ocean animals are truly awesome. They come in every size, color and shape imaginable. They are also some of the weirdest, sneakiest and smartest animals on the planet!

This book focuses on the features and skills that make these creatures extra-incredible. You will discover animals that are masters of defense and others that use high speeds to eat or avoid being eaten. There are sea creatures that use their size as an advantage, both big and small, and others that are just really, really smart!

Whether you're a fan of fish, a connoisseur of crustaceans, mad about molluscs or just love jellyfish, *Ocean Animals* has got you covered. You may even discover some fantastical creatures you never knew existed.

Full of fun facts, "sea-lebrity" species profiles and amazing pictures, you will also learn about issues threatening marine life and tips on how to help protect our amazing ocean environments.
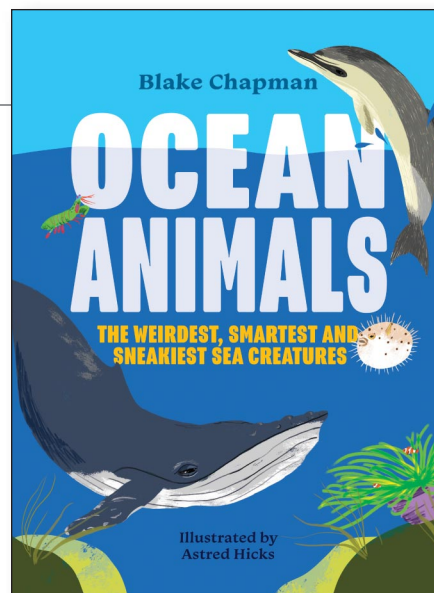
Features:

- Reveals the unique features that enable marine animals to thrive in their habitats
- Inspires young readers to tackle the challenges of ocean pollution, biodiversity loss and climate change
- Presents key themes and concepts from the Australian curriculum, providing a fun resource for teaching
- Highly visual and engaging content, making learning easy and fun

September 2020
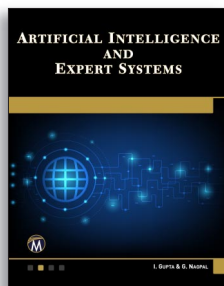**144 pp, 8 in x 9 in, 94 color photos, 14 color illustrations**
Paper, 978 1 48631 141 5, $ 19.95 (S3)

JUVENILE / SCIENCE / MARINE BIOLOGY

The Author: Blake Chapman has a PhD in marine science, with a focus on shark development and neuroscience. She has worked hands-on with a wide range of aquatic animals and has a passion for promoting conservation through education. Most of all, she loves all things wonderful, wacky and wild! Blake's first book, *Shark Attacks: Myths, Misunderstandings and Human Fear*, was published in 2017 by CSIRO Publishing. She is also the Sharks Editor-at-Large for *Australian Geographic*.

Artificial Intelligence and Expert Systems

I. Gupta, G. Nagpal

This book is designed to identify some of the current applications and techniques of artificial intelligence as an aid to solving problems and accomplishing tasks. It provides a general introduction to the various branches of AI which include formal logic, reasoning, knowledge engineering, expert systems, neural networks, and fuzzy logic, etc. The book has been structured into five parts with an emphasis on expert systems: problems and state space search, knowledge engineering, neural networks, fuzzy logic, and Prolog.

Features:
- Introduces the various branches of AI which include formal logic, reasoning, knowledge engineering, expert systems, neural networks, and fuzzy logic, etc.
- Includes a separate chapter on Prolog to introduce basic programming techniques in AI

The Authors: I. Gupta teaches courses in Artificial Intelligence and specializes in expert system research, G. Nagpal teaches courses in Artificial Intelligence and specializes in expert system research.
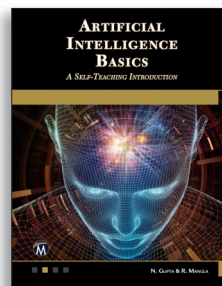
April 2020
300 pp, 7 in x 9 in
Paper, 978 1 68392 507 1, $ 49.95 (S7)
Lib e-book, 1 68392 505 7, $ 149.95 (10)
E-book, 978 1 68392 506 4, $ 41.95 (S7)

Artificial Intelligence Basics

A Self-Teaching Introduction

N. Gupta, R. Mangla

Designed as a self-teaching introduction to the fundamental concepts of artificial intelligence, the book begins with its history, the Turing test, and early applications. Later chapters cover the basics of searching, game playing, and knowledge representation. Expert systems and machine learning are covered in detail, followed by separate programming chapters on Prolog and Python. The concluding chapter on artificial intelligence machines and robotics is comprehensive with numerous modern applications.

Features:
- Covers an introduction to concepts related to AI, including searching processes, knowledge representation, machine learning, expert systems, programming, and robotics
- Includes separate chapters on Prolog and Python to introduce basic programming techniques in AI

The Authors: N. Gupta, PhD teaches courses in artificial intelligence and specializes in expert systems, R. Mangla is the proprietor of a large manufacturing company using AI machines.
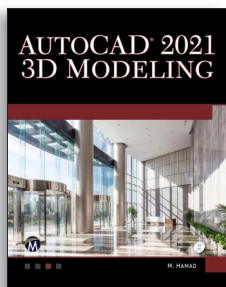
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203 pp, 7 in x 9 in
Paper, 978 1 68392 516 3, $ 41.95 (S7)
Lib e-book, 978 1 68392 514 9, $ 129.95 (10)
E-book, 978 1 68392 515 6, $ 34.95 (S7)

AutoCAD 2021 3D Modelling

Munir Hamad

This book provides new and seasoned users with step-by-step procedures on creating and modifying 3D models, working with cameras and lights, assigning materials to objects, rendering, and printing. Unlike many AutoCAD competitors, it uses both metric and imperial units to illustrate the myriad tools for this popular application. Use the companion CD to set up drawing exercises and projects and see all of the book's figures including color.

AutoCAD 2021 3D Modeling includes 50 "mini-workshops" that complete small projects from concept through actual plotting. Solving all of the workshops will simulate the creation of full projects (architectural and mechanical) from beginning to end, without overlooking any of the basic commands and functions in AutoCAD 2021.

Features:
- Provides new and seasoned users with step-by-step procedures on creating and modifying 3D models in both metric and imperial units
- CD can be used to set up in-text drawing exercises and projects and to see the book's figures in color

The Author: Munir Hamad is an AutoDesk® Approved Instructor and certified AutoDesk AutoCAD Master, who has authored several AutoCAD titles and taught various levels of AutoCAD training.
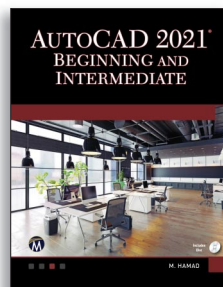
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E-book, 978 1 68392 524 8, $ 41.95 (S7)

AutoCAD 2021 Beginning and Intermediate

Munir Hamad

This book is the most comprehensive book you will find on AutoCAD 2021 — 2D Drafting. Covering all of the 2D concepts, it uses both metric and imperial units to illustrate the myriad drawing and editing tools for this popular application. Use the companion disc to set up drawing exercises and projects and see all of the book's figures in color. *AutoCAD 2021 Beginning and Intermediate* includes over 100 exercises or "mini-workshops" that complete small projects from concept through actual plotting. Solving all of the workshops will simulate the creation of three projects (architectural and mechanical) from beginning to end, without overlooking any of the basic commands and functions in AutoCAD 2021.

Features:
- Covers only the basics and uses both metric and imperial units to illustrate the myriad tools for this popular application
- CD can be used to set up in-text drawing exercises and projects and to see the book's figures in color
- Helps you to prepare for the AutoCAD Certified Professional exam

The Author: Munir Hamad is an AutoDesk® Approved Instructor and certified AutoDesk AutoCAD Master, who has authored several AutoCAD titles and taught various levels of AutoCAD training.
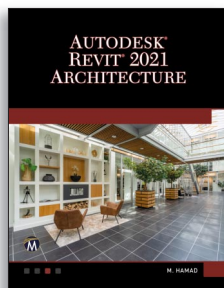
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E-book, 978 1 68392 521 7, $ 44.95 (S7)

AutoDesk Revit 2021 Architecture

A Self-Teaching Introduction

Munir Hamad

Covering all of the major techniques, this book uses both metric and imperial units to illustrate the myriad drawing and editing tools for this popular application. Use the companion files to set up drawing exercises and projects and to see all of the book's figures. *AutoDesk Revit 2021 Architecture* includes over 50 "mini-workshops" that complete small projects from concept through actual plotting. Solving all of these workshops will help to master Autodesk Revit Architecture from beginning to end, without overlooking any of the basic commands and functions.

Features:

- Uses both metric and imperial units to illustrate the myriad drawing and editing tools or this popular application
- Includes over 50 "œmini-workshops " and hundreds of figures that complete small projects
- Helps you to prepare for the *Revit Architecture Certified Professional* exam
- Exercises and projects included for use as a textbook

The Author: Munir Hamad is an AutoDesk® Approved Instructor and certified AutoDesk AutoCAD Master, who has authored several AutoCAD titles and taught various levels of AutoCAD training.
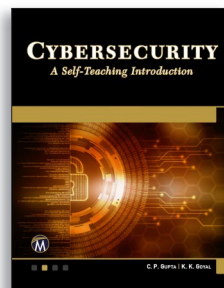
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550 pp, 7 in x 9 in
Book + CD, 978 1 68392 519 4, $ 59.95 (S7)
Lib e-book, Jul 15, 2020, 978 1 68392 517 0, $ 149.95 (10)
E-book, Jul 15, 2020, 978 1 68392 518 7, $ 41.95 (S7)

Cybersecurity

A Self-Teaching Introduction

C. P. Gupta, K. K. Goyal

This book is designed to provide the reader with the fundamental concepts of cybersecurity and cybercrime in an easy to understand, "self-teaching" format. It introduces all of the major subjects related to cybersecurity, including data security, threats and viruses, malicious software, firewalls and VPNs, security architecture and design, security policies, cyberlaw, cloud security, and more.

Features:

- Provides an overview of cybersecurity and cybercrime subjects in an easy to understand, "self-teaching" format
- Covers security related to emerging technologies such as cloud security, IoT, AES, and grid challenges
- Includes discussion of information systems, cryptography, data and network security, threats and viruses, electronic payment systems, malicious software, firewalls and VPNs, security architecture and design, security policies, cyberlaw, and more.

The Authors: C.P. Gupta, PhD, is a university instructor who teaches courses in cybersecurity and cybercrime. Dr. Gupta is a member of IEEE and has published research articles for international journals., K. K. Goyal, PhD, is a university instructor, who teaches courses in cybersecurity and cybercrime. Dr. Goyal is a member of IEEE and has published research articles for international journals.
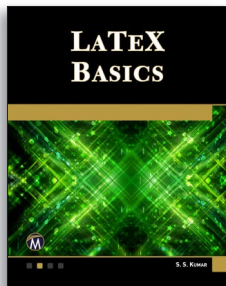
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E-book, 978 1 68392 497 5, $ 34.95 (S7)

LaTeX Basics

S. S. Kumar

Professional documentation is considered to be an integral component of the academic world. One advantage of LaTeX over other documentation systems is that it can generate a high quality typographical document. This is particularly true for documents that are heavy on mathematical formulae, figures, tables, etc. This comprehensive guide for using LaTeX is designed in such a way that no prior knowledge of LaTeX or any other computing language is needed. The chapters include in-depth material on using LaTeX, such as installation, system commands, compilers, layout and formatting, using LaTeX for mathematics, journal creation, citations, Beamer presentation, thesis creation, and much more.

Features:

- Assumes no prior knowledge of LaTeX or any other computer language or application
- Covers installation, system commands, compilers, layout formatting, using LaTeX for mathematics, creating figures and tables, journal creation, citations, Beamer presentation, thesis creation, and much more

The Author: S. S. Kumar, PhD is a university instructor who has authored several books including the topics of wireless networks and MATLAB.
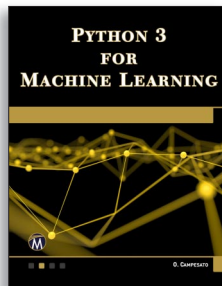
May 2020
500 pp, 7 in x 9 in
Paper, 978 1 68392 513 2, $ 54.95 (S7)
Lib e-book, 978 1 68392 511 8, $ 169.95 (10)
E-book, 978 1 68392 512 5, $ 41.95 (S7)

Python 3 for Machine Learning

Oswald Campesato

This book is designed to provide the reader with basic Python 3 programming concepts related to machine learning. The first four chapters provide a fast-paced introduction to Python 3, NumPy, and Pandas. The fifth chapter introduces the fundamental concepts of machine learning. The sixth chapter is devoted to machine learning classifiers, such as logistic regression, k-NN, decision trees, random forests, and SVMs. The final chapter includes material on NLP and RL. Keras-based code samples are included to supplement the theoretical discussion. The book also contains separate appendices for regular expressions, Keras, and TensorFlow 2.

Features:

- Provides the reader with basic Python 3 programming concepts related to machine learning
- Includes separate appendices for regular expressions, Keras, and TensorFlow 2

The Author: Oswald Campesato (San Francisco, CA) specializes in Deep Learning, Data Cleaning, Java, Android, and TensorFlow. He is the author/co-author of over twenty-five books including *TensorFlow Pocket Primer*; *Artificial Intelligence, Machine Learning, and Deep Learning*; *Android Pocket Primer, Angular4 Pocket Primer*, and the *Python Pocket Primer* (Mercury Learning).
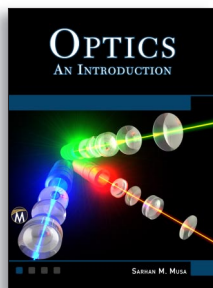
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E-book, 978 1 68392 494 4, $ 41.95 (S7)

MERCURY LEARNING & INFORMATION

PREVIOUSLY ANNOUNCED
Optics
An Introduction

S. Musa

This book deals with the basic concepts of geometrical and physical optics, including lasers, holography, and fiber optics. It contains numerous diagrams, worked-out examples, and related questions-answers to help students in the comprehension and appreciation of the concepts.

Features:
- Covers basic concepts of geometrical and physical optics, including lasers, fiber optics, and sensors
- Balances theoretical concepts with numerous diagrams, examples, and applications

BRIEF TABLE OF CONTENTS 1: Theory of Light. 2: Reflection and Refraction. 3: Refraction at a Spherical Surface. 4: Aberrations of Optical Images. 5: Optical Instruments. 6: Nature of Light and Simple Harmonic Motion. 7: Wave Motion and Light Waves. 8: Huygens' Principle. 9: Interference of Light. 10: Diffraction of Light. 11: Polarization of Light. 12: Lasers. 13: Fiber Optics and Sensors. Appendices. Index

The Author: Sarhan M. Musa, PhD teaches numerous courses at Texas A&M-Prairie View and is the author of several books including Computational Nanophotonics (CRC Press) and Finite Element Analysis (MLI).
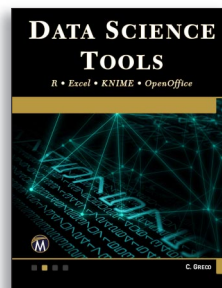
June 2020
250 pages, 7 in x 9 in
Paper, 978 1 93854 970 0, $89.95
Lib e-book, 978 1 68392 297 1, $179.95
E-book, 978 1 68392 147 9, $49.95

Data Science Tools
R • Excel • KNIME • OpenOffice

Christopher Greco

In the world of data science there are myriad tools available to analyze data. This book describes some of the popular software application tools along with the processes for downloading and using them in the most optimum fashion. The content includes data analysis using Microsoft Excel, KNIME, R, and OpenOffice (Spreadsheet). Each of these tools will be used to apply statistical concepts including confidence intervals, normal distribution, T-Tests, linear regression, histograms, and geographic analysis using real data from Federal Government sources.

Features:
- Analyzes data using popular applications such as Excel, R, KNIME, and OpenOffice
- Covers statistical concepts including confidence intervals, normal distribution, T-Tests, linear regression, histograms, and geographic analysis
- Capstone exercises analyze data using the different software packages

The Author: Christopher Greco is a COMPTIA Certified Technical Trainer and Microsoft Certified Systems Engineer with numerous years of industry experience in the areas of data analysis, cybersecurity, and IT instruction and training.
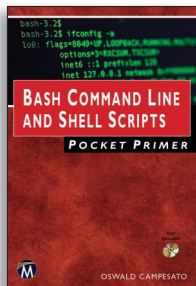
June 2020
250 pages, 7 in x 9 in
Paper, 978 1 68392 583 5, $49.95
Lib e-book, 978 1 68392 581 1, $149.95
E-book, 978 1 68392 582 8, $39.95

Bash Command Line and Shell Scripts

Pocket Primer

O. Campesato

As part of the best-selling *Pocket Primer* series, this book is designed to introduce readers to an assortment of powerful command-line utilities that can be combined to create simple, yet powerful shell scripts. While all examples and scripts use the "bash" command set, many of the concepts translate into other command shells (such as sh, ksh, zsh, and csh), including the concept of piping data between commands, regular expression substitution, and the sed and awk commands. Aimed at a reader relatively new to working in a bash environment, the book is comprehensive enough to be a good reference and teach a few new techniques to those who already have some experience with creating shell scripts. It contains a variety of code fragments and shell scripts for data scientists, data analysts, and other people who want shell-based solutions to "clean" various types of text files. In addition, the concepts and code samples in this book are useful for people who want to simplify routine tasks.

Features:

*   Takes introductory concepts and commands in bash, and then demonstrates their uses in simple yet powerful shell scripts
*   Contains a variety of code fragments and shell scripts for data scientists, data analysts, and other people who want shell-based solutions to "clean" various types of text files

The Author: Oswald Campesato (San Francisco, CA) specializes in Deep Learning, Java, Angular, and TensorFlow. He is the author/co-author of over twenty-five books including *TensorFlow 2 Pocket Primer, Python 3 for Machine Learning*, and the *Python Pocket Primer* (Mercury Learning).
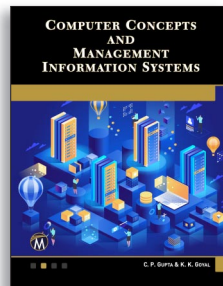
June 2020
200 pages, 6 in x 9 in
Paper, 978 1 68392 504 0, $35.95
Lib e-book, 978 1 68392 502 6, $149.95
E-book, 978 1 68392 503 3, $41.95

Computer Concepts and Management Information Systems

C.P. Gupta and K. K. Goyal

This book is designed to provide the reader with the fundamentals of computers and MIS in an easy to understand, "self-teaching" format. It introduces the major subjects such as hardware components, software applications, detailed information on Microsoft Office, information systems, ERP, CRM, security, business ethics, and cybercrime.

Features:

*   Covers the major components of MS Office: Excel, WORD, PowerPoint, and Access
*   Provides an overview of the workings of a computer, software applications, and MIS
*   Includes discussion of information systems, ERP, security, business ethics, and cybercrime

The Authors: Both C.P. Gupta, PhD and K.K. Goyal, PhD are university instructors, teaching courses in cybersecurity and cybercrime. Both are members of IEEE and have published research articles for international journals.
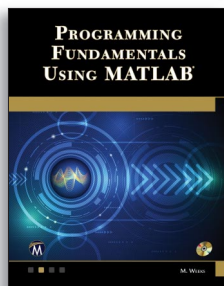
July 2020
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Programming Fundamentals Using MATLAB

Michael Weeks

This book covers the MATLAB syntax and the environment, suitable for someone with no programming background. The first four chapters present information on basic MATLAB programming including computing terminology, MATLAB specific syntax and control structures, operators, arrays and matrices. The next cluster covers grouping data, working with files, making images, creating graphical user interfaces, experimenting with sound, and the debugging environment. The final three chapters contain case studies on using MATLAB and other tools and devices (e.g., Arduino, Linux, Git, Mex, etc.) important for basic programming knowledge. Companion files with code and 4 color figures are on the disc or available from the publisher.

Features:
- Covers the MATLAB syntax and the environment, suitable for someone with no programming background
- Numerous examples, projects, and practical applications enhance understanding of subjects under discussion with over 100 MATLAB scripts and functions
- Includes companion files with code and 4 color figures from the text (on the disc or available from the publisher)

The Author: Michael Weeks, PhD is a professor in information technology and has published numerous research articles with reputed international publishers such as the ACM, Springer, Elsevier, and IEEE.
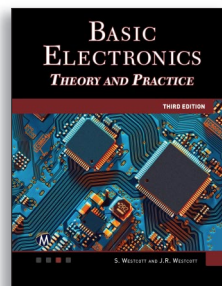
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Basic Electronics

Theory and Practice, 3/e

This updated edition is an introduction appropriate for both the student and hobbyist to the theory and practice of electronics. It leads the reader through introductory understanding of the science underlying electronics, building basic circuits, learning the roles of the components, the application of digital theory and the possibilities for innovation by combining sensors, motors, and microcontrollers. Each chapter contains a brief lab to demonstrate the topic covered, then moving on to the hands-on applications of what you have learned by building a programmable robot with the Netduino or Arduino microcontroller, and using the Raspberry Pi in your electronics projects. The companion disc has videos of the labs, soldering skills, animations, and code samples for programming of the robot and your Raspberry Pi.

Features:
- Leads the reader through an introductory understanding of electronics with both simple labs and progressing to the construction of a microcontroller-driven robot using open source software and hardware and a project to run on a Raspberry Pi
- Includes a new chapter on Cybersecurity and IoT for Electronic Projects and two new animations
- Features companion files with videos of labs, tutorials on soldering/ de-soldering, code for the microcontroller robot project, and figures from the text

The Authors: Sean Westcott has worked in electronics, networking and currently in cybersecurity. Jean Riescher Westcott has written broadly on technology in books and online. They are the authors of *Digitally Daunted: The Consumer's Guide to Taking Control of the Technology in Your Life* (Capital Books) and *The Complete Idiot's Guide to Electronics 101* (Alpha/ Penguin Books), and live in Northern Virginia.
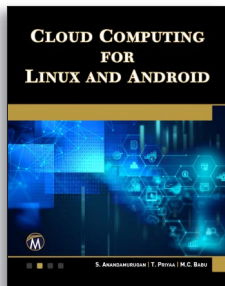
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Paper, 978 1 68392 528 6, $54.95
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Cloud Computing for Linux and Android

S. Anandamurugan, T. Priyaa and M.C. Babu

This book is designed to introduce the reader to cloud computing concepts as they relate to the Linux and Android operating systems. The book has fourteen chapters with each chapter presenting both basics to advanced concepts. It contains ten chapters on cloud technology and the Linux platform, then three chapters on Android technology using the cloud platform, and the final chapter contains five case studies, which include the real-time executed projects. Throughout the book many cloud-based tools and software have been discussed.

Features:

- Introduces the reader to cloud computing concepts as they relate to the Linux and Android operating systems
- Includes five case studies with real-time executed projects
- Covers concepts such as classifications, services, Ubuntu, Google-Cloud Messaging, mobile cloud computing, and more
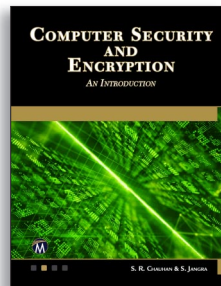
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Computer Security and Encryption

An Introduction

S. R. Chauhan and S. Jangra

Because of the rapid growth of cyber-crime, cryptography and system security may be the fastest growing technologies in our culture today. This book describes various aspects of cryptography and system security, with a particular emphasis on the use of rigorous security models and practices in the design of networks and systems. The first portion of the book presents the overall system security concepts and provides a general overview of its features, such as object model and inter-object communications. The objective is to provide an understanding of the cryptography underpinnings on which the rest of the book is based. The book is designed to meet the needs of beginners as well as more advanced readers.

Features:

- Covers the major components of cryptography and system security, with a particular emphasis on the use of rigorous security models and practices used in the design of networks and systems
- Includes a discussion of emerging technologies such as Big Data Analytics, cloud computing, Internet of Things (IoT), Smart Grid, SCADA, control systems, and Wireless Sensor Networks (WSN)

The Authors: Both S. R. Chauhan and S. Jangra, PhD are university instructors, with over 20 years of experience teaching courses in cybersecurity and cybercrime. Both have published research articles for international journals.
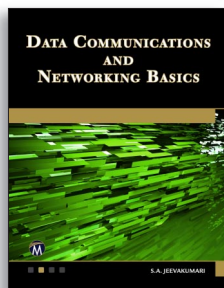
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Data Communications and Networking Basics

S. A. Jeevakumari

The book contains the basic concepts, terminology, protocols, and technologies used in modern data communication, local area networks (LANs), and wide area networks (WANs). The reader receives a thorough introduction to topics such as: OSI and TCP/IP reference models, error detection and correction methods, data link control and protocols, packet switching, Internet working, congestion control, quality of service, cryptography, and network security. The book also includes a chapter on emerging technologies such as IoT, Big Data Analytics, and Wireless Sensor Networks (WSNs).

Features:
*   Covers the major components and protocols of data communications and networking
*   Includes a discussion of emerging technologies such as Big Data Analytics, cloud computing, Internet of Things (IoT), Smart Grid, SCADA, control systems, and Wireless Sensor Networks (WSN)
*   Provides "Test Your Knowledge" exercises with answers at the end of each chapter to help master the concepts discussed

About the Author: S. A. Jeevakumari has ten years of teaching experience on the university level. Her main research interests include data communication and computer architecture.
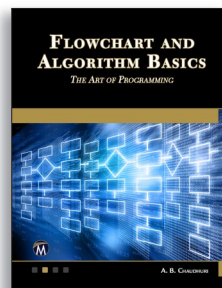
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Flowchart and Algorithm Basics

The Art of Programming

A. B. Chaudhuri

This book is designed to equip the reader with all of the best followed, efficient, well-structured program logics in the form of flowcharts and algorithms. The basic purpose of flowcharting is to create the sequence of steps for showing the solution to problems through arithmetic and/or logical manipulations used to instruct computers. The applied and illustrative examples from different subject areas will definitely encourage readers to learn the logic leading to solid programming basics.

Features:
*   Uses flowcharts and algorithms to solve problems from everyday applications, teaching the logic needed for the creation of computer instructions
*   Covers arrays, looping, file processing, etc.

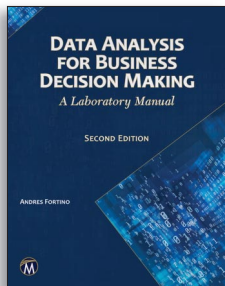**The Author:** A. B. Chaudhuri teaches courses in computer science and specializes in data structures.

August 2020
200 pages, 7 in x 9 in
Paper, 978 1 68392 537 8, $49.95
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Data Analysis for Business Decision Making

A Laboratory Manual, 2/e

Andres Fortino

This laboratory manual is intended for business analysts who wish to increase their skills in the use of statistical analysis to support business decisions. Most of the case studies use Excel, today's most common analysis tool. They range from the most basic descriptive analytical techniques to more advanced techniques such as linear regression and forecasting. Advanced projects cover inferential statistics for continuous variables (t-Test) and categorical variables (chi-square), as well as A/B testing. The manual ends with techniques to deal with the analysis of text data and tools to manage the analysis of large data sets (Big Data) using Excel. Includes companion files with solution spreadsheets, sample files, data sets, etc. from the book.

Features:
• Teaches the statistical analysis skills needed to support business decisions
• Provides projects ranging from the most basic descriptive analytical techniques to more advanced techniques such as linear regression, forecasting, inferential statistics, and analyzing big data sets
• Includes companion files with solution spreadsheets, sample files, data sets, etc. used in the book's case studies
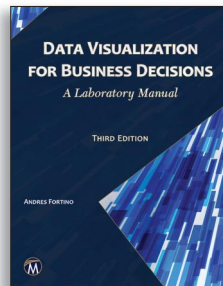
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Data Visualization for Business Decision Making

A Laboratory Manual, 2/e

Andres Fortino

This workbook is intended for business analysts who wish to improve their skills in creating data visuals, presentations, and report illustrations used to support business decisions. It is a qualitative lab to develop the power of visualization and discrimination. It does not require the reader to modify charts, but to analyze and describe what would improve charts. In a set of controlled exercises, the reader is taken through the eighteen elements of six dimensions of analyzing and improving charts, visuals and reports used to communicate business concepts. It includes companion files with videos, sample files, and slides used in examples from the book.

Features:
• Includes eighteen labs, three for each of the six major dimensions of data visuals: Story, Signs, Purpose, Perception, Method, and Charts
• Uses a comprehensive RAIKS (Rapid Assessment of Individual Knowledge and Skills) survey to judge readers' progress before and after using the text
• Provides a capstone exercise to review the aggregate analysis and final results for the two analyzed charts
• Companion files that include video tutorials and all of the sample files and templates used in the book's examples

The Author: Andres Fortino, PhD leads his own company, Fortino Global Education, and is an adjunct faculty member at the NYU School of Professional Studies, where he teaches courses in Business Analytics, Data Mining, and Data Visualization. Dr. Fortino has received many honors, including IBM's *First Invention Level Award* for his work in semiconductor research. He holds three US patents and ten invention disclosures.

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