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# Springer Mathematics & Computer Sciences Preview

**Top Frontlist April – June 2011** 

Fast Track Titles
Business & Management
Computer Science
Economics
Mathematics

**Statistics** 



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Book with online files/update



Book with CD-ROM



CD-ROM



Textbook



Book with DVD







### Fast Track Titles



F. Abergel, B. K. Chakrabarti, A. Chakraborti, M. Mitra, (Fds.)

### **Econophysics of Order-driven Markets**

The primary goal of the book is to present the ideas and research findings of active researchers from various communities (physicists, economists, ;;mathematicians, financial engineers) working in the field of "Econophysics", who have undertaken the task of modelling and analyzing order-driven markets. Of primary interest in these studies are the mechanisms leading to the statistical regularities ("stylized facts") of price statistics. Results pertaining to other important issues such as market impact, the profitability of trading strategies, or mathematical models for microstructure effects, are also presented. Several leading researchers in these fields report on their recent work and also review the contemporary literature.

Available

#### Monograph

2011. XIV, 316 p. 60 illus. (New Economic Windows) Hardcover

- ► € 99,95 | £90.00
- ► \* € (D) 106,95 | € (A) 109,95 | sFr 143,50 ISBN 978-88-470-1765-8





E. D. Bloch, Department of Mathematics, Bard College, Annandale-on-Hudson, NY, USA

### **Proofs and Fundamentals**

#### A First Course in Abstract Mathematics

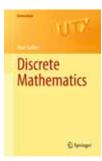
This book is designed as a "transition" course to introduce undergraduates to the writing of rigorous mathematical proofs, and to such fundamental mathematical ideas as sets, functions, relations, and cardinality. Informal discussion plays a key role.

Available

Undergraduate textbook

2nd Edition 2011. XXIV, 359 p. 31 illus. (Undergraduate Texts in Mathematics) Hardcover

- ► € 59,95 | £53.99
- ► \* € (D) 64,15 | € (A) 65,95 | sFr 86,00 ISBN 978-1-4419-7126-5



J. Gallier, University of Pennsylvania, Philadelphia, PA,

#### **Discrete Mathematics**

Written for undergraduates, this volume provides an introduction to discrete mathematics. The text begins with a presentation of the rules of logic as used in mathematics, and includes various examples of formal and informal proofs.

Available

Undergraduate textbook

2011. XIII, 465 p. 220 illus., 20 in color. (Universitext) Softcover

- ► € 59,95 | £39.99
- ► \* € (D) 64,15 | € (A) 65,95 | sFr 86,00 ISBN 978-1-4419-8046-5



G. Grätzer, University of Manitoba, Winnipeg, Canada

### **Lattice Theory: Foundation**

Based on three previous publications on the subject, this updated third edition covers the key concepts and results in the field. The main topics are distributivity, congruences, constructions, modularity and semimodularity, varieties, and free products.

Available

Graduate/Advanced undergraduate textbook



► € 64,95 | £58.99

► \* € (D) 69,50 | € (A) 71,45 | sFr 93,50 ISBN 978-3-0348-0017-4



**B. C. Sutradhar**, Memorial University of Newfoundland, St. John's, NL, Canada

### Dynamic Mixed Models for Familial Longitudinal Data

This book provides a theoretical foundation for analysis of discrete data such as count and binary data in the longitudinal setup. It presents differences between the familial and longitudinal correlation models, and illustrations of real life data analysis.

Available

Monograph

2011. XVIII, 488 p. 2 illus. (Springer Series in Statistics) Hardcover

- ► €79,95 | £72.00
- ► \* € (D) 85,55 | € (A) 87,95 | sFr 115,00 ISBN 978-1-4419-8341-1

# Business & Management

A. A. Assad, University at Buffalo, State University of New York, NY, USA; S. I. Gass, University of Maryland, MD, USA (Eds.)

### **Profiles in Operations Research**

#### **Pioneers and Innovators**

This profile of dozens of leading scholars contains detailed biographies of those who have made significant intellectual contributions to the field. It also reviews the ideas of each individual and shows how they aided the development of operations research.

Due March 2011

#### Monograph

2011. XXIII, 830 p. 80 illus., 66 in color. (International Series in Operations Research & Management Science, Volume 147) Hardcover

- ► € 79,95 | £72.00
- ► \* € (D) 85,55 | € (A) 87,95 | sFr 124,50 ISBN 978-1-4419-6280-5



**J. W. Böse**, HPC Hamburg Port Consulting, Hamburg, Germany (Ed.)

### **Handbook of Terminal Planning**

Setting out the latest theory on container terminal design, this book contains the technical basics needed for strategic planning, especially implementing 'order of magnitude' improvements, and aids CT fundamental dimensioning from a variety of perspectives.

Due March 2011

Contributed volume

2011. XXI, 433 p. 159 illus. (Operations Research Computer Science Interfaces Series, Volume 49) Hardcover

- ► € 139,95 | £126.00
- ► \* € (D) 149,75 | € (A) 153,94 | sFr 201,00 ISBN 978-1-4419-8407-4



J. Boyer, ILOG Inc., Sunnyvale, CA, USA; H. Mili, UQAM, Montreal, Canada

### Agile Business Rule Development

**Process, Architecture, and JRules Examples** 

This book presents a step-by-step method for implementing the business rules approach to application development, covering the entire lifecycle from planning through rule discovery and analysis, rule and application design, to implementation and maintenance.

Due March 2011

Professional book

2011. 400 p. Hardcover

► € 49,95 | £44.99

► \* € (D) 53,45 | € (A) 54,95 | sFr 72,00 ISBN 978-3-642-19040-7

**T. Choi**, **T. E. Cheng**, The Hong Kong Polytechnic University, HongKong, China (Eds.)

### Supply Chain Coordination under Uncertainty

This book offers state-of-the-art findings on both theoretical and applied research on achieving supply chain coordination under uncertainty. It examines supply chain coordination challenges with a focal point on discovering innovative measures.

Due June 2011

#### Handbook

2011. X, 500 p. 108 illus. (International Handbooks on Information Systems, Volume 0) Hardcover

- ► € 139,95 | £126.00
- ► \* € (D) 149,75 | € (A) 153,94 | sFr 201,00 ISBN 978-3-642-19256-2





**C. Devonshire-Ellis, A. Scott, S. Woollard**, Dezan Shira & Associates / Asia Briefing Ltd, Hong Kong (Eds.)

### **Human Resources in China**

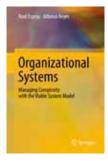
Specifically designed to cover the most important issues involved in managing a Chinese workforce, this guide details Human Resources issues of vital concern to both local managers in China and investors looking to establish a presence on the mainland.

Due April 2011

Contributed volume

3rd Edition. 2011. IV, 130 p. 5 illus. in color. (China Briefing) Softcover

- ▶ €39,95 | £35.99
- ► \* € (D) 42,75 | € (A) 43,95 | sFr 57,50 ISBN 978-3-642-18208-2



R. Espejo, A. Reyes, President of University of Ibague, Colombia

### **Organizational Systems**

### Managing Complexity with the Viable System Model

This book clarifies the application of cybernetic ideas, particularly those of Beer's Viable System Model, to organizational diagnosis and design. It offers a method to study and design organizations and a methodology to deal with implementation problems.

Due March 2011

Monograph

2011. 300 p. 150 illus. Hardcover

- ► € 99,95 | £90.00
- ► \* € (D) 106,95 | € (A) 109,95 | sFr 143,50 ISBN 978-3-642-19108-4



K. G. Kempf, Intel Corporation, AZ, USA; P. Keskinocak, Georgia Institute of Technology, GA, USA; R. Uzsoy, North Carolina State University, Raleigh, NC, USA (Eds.)

### Planning Production and Inventories in the Extended Enterprise

A State-of-the-Art Handbook, Volume 2

In two volumes, this Handbook examines production planning for the extended enterprise against a backdrop of important gaps between theory and practice. Covers basic principles and problems, the current state of research, current and best practices.

Due March 2011

Handbook

2011. VII, 657 p. 198 illus. (International Series in Operations Research & Management Science, Volume 152) Hardcover

- ► € 169,95 | £153.00
- ► \* € (D) 181,85 | € (A) 186,94 | sFr 244,00 ISBN 978-1-4419-8190-5

G. Müller-Christ, University of Bremen, Germany

### **Sustainable Management**

### Coping with the Dilemmas of Resource-Oriented Management

In this well structured book, a resource-oriented perception of sustainable management is presented. The author presents his findings as regards the development of environmental and social responsibility and introduces a theory of management ecology.

Due June 2011

Graduate/Advanced undergraduate textbook



► \* € (D) 106,95 | € (A) 109,95 | sFr 143,50 ISBN 978-3-642-19164-0 S. Nahmias, Santa Clara University, CA, USA

### **Perishable Inventory Systems**

Perishable Inventory Systems explores the benefits of a periodic review versus continuous review, and a look at a one-period newsvendor perishable inventory model. Topics include one-for-one policies, models with zero lead time, and optimal policies with positive lead time.

Due June 2011

#### Monograph

2011. XII, 98 p. 3 illus. (International Series in Operations Research & Management Science, Volume 160) Hardcover

- ► approx. € 89,95 | £79.50
- ► approx. \* € (D) 96,25 | € (A) 98,95 | sFr 137,00 ISBN 978-1-4419-7998-8

D. Ó Conchúir, Scatterwork, Kesswil, Switzerland

# (a) (2ND EDITION)

### Overview of the PMBOK Guide

**Short Cuts for PMP® Certification** 

Particularly relevant to candidates for the Project Management Institute's certification examinations, the new edition of this guide is an accessible introduction to project management as set out in the fourth edition of the PMI's own handbook on the subject.

Due April 2011

#### Monograph

2nd Edition. 2011. XVI, 213 p. Hardcover

- ► € 39,95 | £35.99
- ► \* € (D) 42,75 | € (A) 43,95 | sFr 57,50 ISBN 978-3-642-19121-3

G. Saad, Concordia University, Montreal, Canada (Ed.)

### Evolutionary Psychology in the Business Sciences

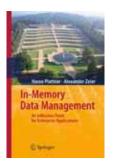
This edited book provides chapters at the intersection of the evolutionary behavioral sciences and specific business contexts including in marketing, consumer behavior, advertising, innovation and creativity, intertemporal choice, negotiations, competition and cooperation in organizational settings, sex differences in workplace patterns, executive leadership, business ethics, store design, behavioral decision making, and electronic communication.

Due April 2011

#### Contributed volume

2011. X, 390 p. Hardcover

- ► € 139,95 | £126.00
- ► \* € (D) 149,75 | € (A) 153,94 | sFr 201,00 ISBN 978-3-540-92783-9



H. Plattner, A. Zeier, Hasso Plattner Institute, Potsdam, Germany

### **In-Memory Data Management**

### An Inflection Point for Enterprise Applications

This book examines in-memory computing. It describes techniques that allow analytical and transactional processing at the speed of thought and enables new ways of doing business.

Due March 2011

#### Monograph

2011. XVIII, 236 p. 115 illus. Hardcover

- ► € 39,95 | £35.99
- ► \* € (D) 42,75 | € (A) 43,95 | sFr 57,50 ISBN 978-3-642-19362-0

**T. Ritchey**, Ritchey Consulting AB/Swedish Morphological Society, Vällingby, Sweden

### Wicked Problems – Social Messes

### Decision Support Modelling with Morphological Analysis

This book presents the history and theory of General Morphological Analysis (GMA) and describes how it is used to develop interactive, non-quantified inference models. It features case studies that illustrate the application of GMA.

Due June 2011

#### Monograph

2011. 90 p. 40 illus. (Risk, Governance and Society, Volume 17) Hardcover

- ► approx. € 89,95 | £81.00
- ► approx. \* € (D) 96,25 | € (A) 98,95 | sFr 129,00 ISBN 978-3-642-19652-2

M. Sakawa, I. Nishizaki, Hiroshima University, Higashi-Hiroshima, Japan; H. Katagiri, Osaka University, Higashi-Hiroshima, Japan

### Fuzzy Stochastic Multiobjective Programming

With a stress on interactive decision-making, this work breaks new ground by covering both the random nature of events related to environments, and the fuzziness of human judgements. The text runs from mathematical preliminaries to future research directions.

Available

#### Monograph

2011. XII, 264 p. 30 illus. (International Series in Operations Research & Management Science, Volume 159)
Hardcover

- ► € 99,95 | £90.00
- ► \* € (D) 106,95 | € (A) 109,95 | sFr 143,50 ISBN 978-1-4419-8401-2



W. Vandekerckhove, Ghent University, Belgium; J. Leys, HIVA, KULeuven, Belgium; K. Alm, BI School of Management, Oslo, Norway; B. Scholtens, University of Groningen, The Netherlands; S. Signori, University of Bergamo, Italy; H. Schäfer, University of Stuttgart, Germany (Eds.)

### Responsible Investment in Times of Turmoil

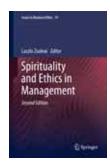
Here is the first examination of Socially Responsible Investing (SRI) since the fall of the recent financial bubble. It asks, Is this an opportunity to enhance SRI because of its strength and superiority, or will it vanish in the next wave of financial myopia?

Due April 2011

Contributed volume

2011. XXIII, 218 p. 5 illus. (Issues in Business Ethics, Volume 31) Hardcover

- ► € 99,95 | £90.00
- ► \* € (D) 106,95 | € (A) 109,95 | sFr 143,50 ISBN 978-90-481-9318-9





L. Zsolnai, University of Budapest, Hungary (Ed.)

### Spirituality and Ethics in Management

This collection of scholarly papers focuses on the role of spirituality and ethics in renewing the contemporary management praxis. The book provides a pluralistic approach to spirituality and management, and advises on improving the ethics of organizations.

Due May 2011

Contributed volume

2nd Edition. 2011. X, 234 p. 5 illus. in color. (Issues in Business Ethics, Volume 19) Hardcover

- ► € 99,95 | £90.00
- ► \* € (D) 106,95 | € (A) 109,95 | sFr 143,50 ISBN 978-94-007-1152-5

# Computer Science



J. Adamo, Université Lyon 1, Villeurbanne, France

### Computational Structures and Algorithms for Association Rules

**The Galois Connection** 

This book explores the development of state-ofthe-art algorithms for finding association rules. The mathematical construction of each algorithm is examined in detail, as are advanced approaches such as formal concept analysis and Galois connection frameworks.

Due May 2011

Monograph

2011. X, 266 p. Hardcover

- ► € 79,95 | £72.00
- ► \* € (D) 85,55 | € (A) 87,95 | sFr 115,00 ISBN 978-0-85729-472-2



**C. C. Aggarwal**, IBM T.J. Watson Research Center, Hawthorne, NY, USA (Ed.)

### **Social Network Data Analytics**

Filling an important niche in the field, this book covers a range of aspects of social network data mining, including Structural Properties of Social Networks, Algorithms for Structural Discovery of Social Networks and Content Analysis in Social Networks.

Due April 2011

Contributed volume

2011. XIV, 502 p. 100 illus., 50 in color. Hardcover

- ► approx. € 119,95 | £106.50
- ► approx. \* € (D) 128,35 | € (A) 131,95 | sFr 169,00 ISBN 978-1-4419-8461-6

N. Ashish, University of California-Irvine, Irvine, CA, USA; A. P. Sheth, Wright State University, Dayton, OH, USA (Eds.)

### Geospatial Semantics and the Semantic Web

Foundations, Algorithms, and Applications

Geospatial Semantics and the Semantic Web provides recent research in the theme of geospatial semantics. Each contribution presents new information systems applications that have potential for high impact and commercialization.

Due June 2011

Contributed volume

2011. X, 250 p. (Semantic Web and Beyond, Tentative volume 12) Hardcover

- ► approx. € 74,95 | £66.99
- ► approx. \* € (D) 80,20 | € (A) 82,45 | sFr 105,50 ISBN 978-1-4419-9445-5





D. R. Brooks, Institute for Earth Science Research and Education, Eagleville, PA, USA

### Guide to HTML, JavaScript and **PHP**

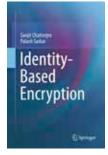
### For Scientists and Engineers

This book enables readers to quickly develop a working knowledge of HTML, JavaScript and PHP. It provides a hands-on approach to learning and makes extensive use of examples. Includes a glossary as well as a range of programming exercises. Due April 2011

Undergraduate textbook



- 2011. XIV, 458 p. Hardcover
- ► € 69,95 | £55.00
- ► \* € (D) 74,85 | € (A) 76,95 | sFr 100,50 ISBN 978-0-85729-448-7



S. Chatterjee, Indian Institute of Science, Bangalore, India; P. Sarkar, Indian Statistical Institute, Kolkata, India

### **Identity-Based Encryption**

This form of public key encryption has been the subject of intense research in recent years. Summarizing the literature on IBE, this volume covers ideas that could spark further research as well as background on subjects such as elliptic curves and pairings.

Due April 2011

Monograph

2011. XV, 180 p. Hardcover

- ► € 79,95 | £72.00
- ► \* € (D) 85,55 | € (A) 87,95 | sFr 115,00 ISBN 978-1-4419-9382-3



A. S. Chowdhury, Jadavpur University, Kolkata, India; S. M. Bhandarkar, University of Georgia, Athens, GA, USA

### **Computer Vision-Guided Virtual** Craniofacial Surgery

### A Graph-Theoretic and Statistical Perspective

This unique text/reference discusses in depth the two integral components of reconstructive surgery; fracture detection, and reconstruction from broken bone fragments. It incorporates useful algorithms and relevant concepts from graph theory and statistics.

Due March 2011

#### Monograph

2011. XXIII, 168 p. (Advances in Computer Vision and Pattern Recognition, Volume 0) Hardcover

- ► € 79,95 | £59.95
- ► \* € (D) 85,55 | € (A) 87,95 | sFr 115,00 ISBN 978-0-85729-295-7



V. Cortellessa, A. Di Marco, P. Inverardi, University of

### **Model-Based Software** Performance Analysis

This book details both the basic concepts of software performance analysis and state-of-the-art methodologies. It starts from performance primers and goes through software and performance modeling notations to the latest transformationbased methodologies.

Due June 2011

Graduate/Advanced undergraduate textbook



- ► approx. € 54,95 | £49.99
- ► approx. \* € (D) 58,80 | € (A) 60,45 | sFr 79,00 ISBN 978-3-642-13620-7

### **SPRINGER** REFERENCE



J. Domingue, The Open University, Milton Keynes, UK; D. Fensel, STI Innsbruck, Austria; J. A. Hendler, Rensselaer Polytechnic Institute, Troy, NY, USA (Eds.)

### **Handbook of Semantic Web Technologies**

This is the first dedicated reference work in this field, collecting contributions about both the technical foundations of the Semantic Web and their main usage in other scientific fields like life sciences, engineering, business, or education.

Due April 2011

#### Handbook

2011. 1052 p. (In 2 volumes, not available seperately) Hardcover

- ► € 399,00 | £359.00
- ► \* € (D) 426,93 | € (A) 438,90 | sFr 572,50 ISBN 978-3-540-92912-3

Also available as

### eReference

- ► € 399,00 | £359.00
- ► \*\* € (D) 474,81 | € (A) 478,80 | sFr 601,50 ISBN 978-3-540-92913-0

Also available as

Print + eReference

2011. 1052 p. (In 2 volumes, not available seperately) Hardcover

- ► € 499,00 | £449.00
- ► \* € (D) 533,93 | € (A) 548,90 | sFr 715,50 ISBN 978-3-540-92914-7



H. Demirkan, Arizona State University, Tempe, AZ, USA; J. C. Spohrer, V. Krishna, IBM Almaden Research Center, San Jose, CA, USA (Eds.)

### The Science of Service Systems

This book presents a multidisciplinary and multisectoral perspective on the nature of service systems, on research and practice in service and on the future directions to advance service science. It offers theory-based research with actionable results. Due March 2011

Contributed volume

2011. XVIII, 358 p. (Service Science: Research and Innovations in the Service Economy) Hardcover

- ► € 79.95 | £72.00
- ► \* € (D) 85,55 | € (A) 87,95 | sFr 115,00 ISBN 978-1-4419-8269-8



**I. Douglas**, Florida State University, Tallahassee, FL, USA; **Z. Liu**, Dalian Maritime University, China (Eds.)

### **Global Usability**

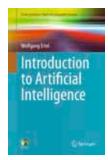
The related concepts of usability and user-centered design (UCD) are of prime concern in the design of technology products. This book addresses usability and UCD principles as applied to internationally distributed teams designing products for global markets.

Due April 2011

Contributed volume

2011. VI, 345 p. 69 illus. (Human–Computer Interaction Series) Hardcover

- ► € 99,95 | £79.95
- ► \* € (D) 106,95 | € (A) 109,95 | sFr 143,50 ISBN 978-0-85729-303-9



**W. Ertel**, Hochschule Ravensburg-Weingarten, Weingarten, Germany

### Introduction to Artificial Intelligence

This accessible textbook supports a foundation or module course on A.I., covering a broad selection of the subdisciplines within this field. It provides study exercises at the end of each chapter, plus examples, definitions, theorems, and illustrations.

Due March 2011

Undergraduate textbook

2011. XI, 316 p. (Undergraduate Topics in Computer Science) Softcover

- ▶ € 34,95 | £26.99
- ► \* € (D) 37,40 | € (A) 38,45 | sFr 50,50 ISBN 978-0-85729-298-8



D. Fensel, F. M. Facca, STI Innsbruck, Austria; E. Simperl, Karlsruhe Institute of Technology, Germany; I. Toma, STI Innsbruck, Austria

### **Semantic Web Services**

This thorough book on semantically enabled Web service technology includes an overview of significant technological achievements, accompanied by examples from real-world settings, definitions, techniques and potential directions of research and development.

Due May 2011

Graduate/Advanced undergraduate textbook

2011. XII, 352 p. Hardcover

- ► € 54,95 | £49.99
- ► \* € (D) 58,80 | € (A) 60,45 | sFr 79,00 ISBN 978-3-642-19192-3

D. M. Gabbay, King's College London, Strand, London, United Kingdom; K. Schlechta, Université de Provence, Marseille Cedex, France

### Conditionals and Modularity in General Logics

This book covers modularity and independence in classical and nonclassical logic, including many-valued logics and structures, plus neighbourhood semantics and their connection to independence, as well as their common points and differences for various logics.

Due March 2011

Monograph

2011. X, 260 p. (Cognitive Technologies, Volume) Hardcover

- ► € 79,95 | £72.00
- ► \* € (D) 85,55 | € (A) 87,95 | sFr 115,00 ISBN 978-3-642-19067-4



S. Groppe, Universität zu Lübeck, Germany

# Data Management and Query Processing in Semantic Web Databases

Covering a vital aspect of the Semantic Web, itself the subject of virtually exponential increases in research dollars, this volume focuses on highperformance data management and the processing of queries in complex, real-world web applications.

Due May 2011

Monograph

2011. 300 p. Hardcover

- ► € 79,95 | £72.00
- ► \* € (D) 85,55 | € (A) 87,95 | sFr 115,00 ISBN 978-3-642-19356-9



**C. Harteveld**, Delft University of Technology, Delft, The Netherlands

### **Triadic Game Design**

### **Balancing Reality, Meaning and Play**

Author Harteveld describes the fundamental components that make up a serious game. Based on a deep and thorough investigation of each component, and his experience in developing Levee Patroller, he captures the important design principles of a serious game.

Due March 2011

#### Monograph

2011. XVII, 316 p. 89 illus., 84 in color. Hardcover

- ▶ €99,95 | £90.00
- ► \* € (D) 106,95 | € (A) 109,95 | sFr 143,50 ISBN 978-1-84996-156-1



O. Hazzan, T. Lapidot, Technion - Israel Institute of Technology Haifa, Israel; N. Ragonis, Beit Berl College, Israel

### Guide to Teaching Computer Science

### An Activity-Based Approach

This guide presents a conceptual framework and detailed implementation guidelines for general computer science (CS) teaching. It is applicable to all levels of CS education and not limited to any one specific curriculum, programming language or paradigm.

Due April 2011

Graduate/Advanced undergraduate textbook



- ► € 69,95 | £55.00
- ► \* € (D) 74,85 | € (A) 76,95 | sFr 100,50 ISBN 978-0-85729-442-5

S. C. Hoi, Nanyang Technological University, Singapore; J. Luo, Kodak Research Laboratories, Rochester, NY, USA; S. Boll, University of Oldenburg, Germany; D. Xu, Nanyang Technological University, Singapore; R. Jin, Michigan State University, East Lansing, MI, USA; I. King, The Chinese University of Hong Kong, Shatin, Hong

### Social Media Modeling and Computing

This book explores advances in social media modeling and social media computing research, organized and presented according to current principles and practices. Coverage includes system design, analytic tools, access control for privacy and security and more.

Due April 2011

Contributed volume

2011. VIII, 276 p. Hardcover

- ► € 79,95 | £72.00
- ► \* € (D) 85,55 | € (A) 87,95 | sFr 115,00 ISBN 978-0-85729-435-7



**M. Hua**, Facebook, Inc., Palo Alto, CA, USA; **J. Pei**, Simon Fraser University, Burnaby, BC, Canada

### Ranking Queries on Uncertain Data

With 'uncertain' data present in numerous important applications such as market analysis and environmental surveillance, this text surveys the fundamental principles, key challenges, applications and evaluation algorithms of ranking queries on uncertain data.

Due April 2011

#### Monograph

2011. XVI, 221 p. (Advances in Database Systems, Volume 42) Hardcover

- ► approx. € 74,95 | £66.99
- ► approx. \* € (D) 80,20 | € (A) 82,45 | sFr 105,50 ISBN 978-1-4419-9379-3



I. Jureta, University of Namur (FUNDP), Belgium

### **Analysis and Design of Advice**

This innovative book offers a rigorous approach to the analysis and design of advice in real-world decision situations, in which the advisor must manage with variously imprecise, unclear, incomplete or conflicting qualitative information.

Due March 2011

#### Monograph

2011. XIII, 301 p. Hardcover

- ► € 79,95 | £72.00
- ► \* € (D) 85,55 | € (A) 87,95 | sFr 115,00 ISBN 978-3-642-18058-3





H. Kopetz, Technische Universität Wien, Austria

### **Real-Time Systems**

### Design Principles for Distributed Embedded Applications

This textbook is written for a high-level undergraduate or graduate course on real-time embedded systems or cyber-physical systems. Its practical approach to solving real-time problems also makes it an excellent choice for researchers and practitioners.

Due April 2011

Graduate/Advanced undergraduate textbook

2nd Edition. 2011. X, 390 p. (Real-Time Systems Series, Volume 0) Hardcover

- ► € 69,95 | £62.99
- ► \* € (D) 74,85 | € (A) 76,95 | sFr 100,50 ISBN 978-1-4419-8236-0



S. Linckels, C. Meinel, Hasso-Plattner-Institut (HPI), Potsdam, Germany

#### **E-Librarian Service**

### **User-Friendly Semantic Search in Digital** Libraries

This book introduces an approach in designing E-Librarian Services, which combines advances in multimedia information retrieval with aspects of human-machine interfaces. Such a system can efficiently retrieve multimedia resources from a digital library.

Due April 2011

Professional book

2011. XVI, 212 p. 40 illus. (X.media.publishing) Hardcover

- ► € 49,95 | £44.99
- ► \* € (D) 53,45 | € (A) 54,95 | sFr 72,00 ISBN 978-3-642-17742-2



X. Liu, Rochester Institute of Technology, Rochester, NY, USA; S. Akram, George Washington University, Ashburn, VA, USA; A. Bouguettaya, CSIRO ICT Centre, Acton, Australia

### **Change Management for Semantic Web Services**

This book provides a thorough analysis of change management in semantic service oriented environments. It is one of the first books to discuss the development of a theoretical foundation for managing changes in atomic and long-term composed services.

Due March 2011

Monograph

2011. X, 200 p. Hardcover

- ► € 79,95 | £72.00
- ISBN 978-1-4419-9328-1

Learning to Rank for

T. Liu, Microsoft Research Asia, Beijing, China

### **Learning to Rank for** Information Retrieval

The author of this book first reviews the major approaches to learning to rank. For each approach he presents the basic framework, with example algorithms. Scientific theoretical soundness is combined with broad development and application experiences.

Due June 2011

Monograph

2011. 300 p. Hardcover

- ► approx. € 79,95 | £72.00
- ► approx. \* € (D) 85,55 | € (A) 87,95 | sFr 115,00 ISBN 978-3-642-14266-6



M. Lupu, K. Mayer, J. Tait, Information Retrieval Facility, Vienna, Austria; A. J. Trippe, 3LP Advisors, Dublin, OH,

### **Current Challenges in Patent** Information Retrieval

Intellectual property in the form of patents plays a vital role in today's increasingly knowledge-based economy. This book assembles state-of-the art research and is intended to illustrate innovative approaches to patent information retrieval.

Due May 2011

Monograph

2011. XIV, 402 p. (The Information Retrieval Series, Volume 29) Hardcover

- ▶ € 99,95 | £90.00
- ► \* € (D) 106,95 | € (A) 109,95 | sFr 143,50 ISBN 978-3-642-19230-2



M. Macintyre, The University of Warwick, Coventry, UK; G. Parry, University of Bath, UK; J. Angelis, The University of Warwick, Coventry, UK (Eds.)

### **Service Design and Delivery**

This inclusive overview of the increasingly important role played by the service industry focuses on the development of the various processes employed by service organizations as well as exploring the links between service management and products.

Due April 2011

Contributed volume

2011. X, 215 p. 100 illus. (Service Science: Research and Innovations in the Service Economy) Hardcover

- ▶ €79,95 | £72.00
- ► \* € (D) 85,55 | € (A) 87,95 | sFr 115,00 ISBN 978-1-4419-8320-6

A. Maruoka, Ishinomaki Senshu University, Ishinomaki, Miyagi, Japan

### **Concise Guide to Computation** Theory

Combining lucid description and illustrations with rigorous arguments and detailed proofs, this book examines the core concepts of automata and languages, computability, and complexity of computation, and offers a solid foundation in computation theory.

Due June 2011

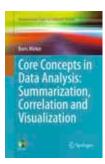
Undergraduate textbook



2011. XVI, 252 p. Hardcover ► approx. € 54,95 | £45.00

► approx. \* € (D) 58,80 | € (A) 60,45 | sFr 79,00 ISBN 978-0-85729-534-7

► \* € (D) 85,55 | € (A) 87,95 | sFr 115,00



B. Mirkin, Birkbeck University, London, United Kingdom

# Core Concepts in Data Analysis: Summarization, Correlation and Visualization

With in-depth descriptions of data analysis techniques both for summarizing and correlation, the author's unconventional approach employs the concept of multivariate data summarization as an alternative to conventional machine-learning prediction methods.

Due April 2011

Graduate/Advanced undergraduate textbook

2011. X, 428 p. 129 illus. (Undergraduate Topics in Computer Science) Softcover

- ► approx. € 34,95 | £31.99
- ► approx. \* € (D) 37,40 | € (A) 38,45 | sFr 50,50 ISBN 978-0-85729-286-5



**M. N. Murty**, **V. S. Devi**, Indian Institute of Science, Bangalore, India

### **Pattern Recognition**

#### An Algorithmic Approach

Containing numerous exercises, this book deals with the scientific discipline that enables similar perception in machines through pattern recognition (PR). The book offers an exposition of principal topics in PR using an algorithmic approach.

Due March 2011

Undergraduate textbook

2011. XII, 263 p. (Undergraduate Topics in Computer Science, Tentative volume 0) Softcover

- ► approx. € 34,95 | £26.99
- ► approx. \* € (D) 37,40 | € (A) 38,45 | sFr 50,50 ISBN 978-0-85729-494-4



M. Newborn, McGill University, Montreal, Quebec, Canada

### **Beyond Deep Blue**

### Chess in the Stratosphere

More than a decade has passed since IBM's Deep Blue computer stunned the world by defeating world chess champion Garry Kasparov. This volume provides an updated story of the chess engine and its steady improvement.

Due April 2011

Monograph

2011. X, 290 p. Hardcover

- ► € 79,95 | £59.95
- ► \* € (D) 85,55 | € (A) 87,95 | sFr 115,00 ISBN 978-0-85729-340-4



M. Oberguggenberger, A. Ostermann, University of Innsbruck, Austria

### Analysis for Computer Scientists

### Foundations, Methods, and Algorithms

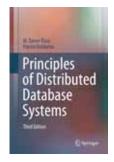
This textbook presents an algorithmic approach to mathematical analysis, with a focus on modelling and on the applications of analysis. It makes thorough use of examples and explanations using MATLAB, Maple and Java applets.

Due April 2011

Undergraduate textbook

2011. X, 341 p. (Undergraduate Topics in Computer Science, Volume) Softcover

- ► € 34,95 | £26.99
- ► \* € (D) 37,40 | € (A) 38,45 | sFr 50,50 ISBN 978-0-85729-445-6





M. T. Özsu, University of Waterloo, Waterloo, Ontario, Canada; P. Valduriez, Montpellier, France

# Principles of Distributed Database Systems, Third Edition

This, the third edition of the classic textbook explores fundamental theory as well as practical techniques and algorithms, and features fresh chapters on aspects such as database replication and integration as well as emerging topics such as cloud computing.

Due March 2011

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3rd Edition. 2011. XIX, 845 p. Hardcover

- ► €89,95 | £81.00
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E. Pardede, La Trobe U, Melbourne, Australia (Ed.)

### **Community-Built Databases**

#### **Research and Development**

Diverse in purpose and collaboration patterns, Wikipedia, Flickr, You Tube, Facebook, LinkedIn are all large community-built databases. This book offers the first comprehensive reference on technical and social aspects of research in community-built databases.

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Monograph

2011. 400 p. Hardcover

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### SPRINGER REFERENCE



**D. Padua**, University of Illinois at Urbana-Champaign, Urbana, IL, USA (Ed.)

### Encyclopedia of Parallel Computing

This Encyclopedia covers machine organization, programming, algorithms, and applications. Within each topic area, the Encyclopedia covers concepts, designs, and specific implementations. The primary sections include Algorithms; Architecture; Software and more.

Due June 2011

Encyclop(a)edia

2011. 2500 p. (In 4 volumes, not available seperately)

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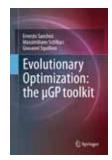
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- ► \*\* € (D) 1188,81 | € (A) 1198,80 | sFr 1505,00 ISBN 978-0-387-09766-4

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2011. 2500 p. (In 4 volumes, not available seperately) Hardcover

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**E. Sanchez**, **M. Schillaci**, **G. Squillero**, Politecnico di Torino, Italy

### Evolutionary Optimization: the μGP toolkit

This text begins with an overview of the most popular techniques of evolutionary computation followed by a discussion of the theoretical and practical aspects of GP. It includes several detailed examples with actual results.

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A. H. Toselli, E. Vidal, F. Casacuberta, Instituto Tecnológico de Informática - Universidad Politécnica de Valencia, Spain

### Multimodal Interactive Pattern Recognition and Applications

Here is a different approach to pattern recognition systems, in which users of a system are involved during the recognition process, and examines a range of advanced multimodal interactions between machine and users, including handwriting, speech and gesture.

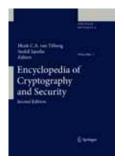
Due June 2011

Monograph

2011. XIV, 280 p. Hardcover

- ► approx. € 79,95 | £59.95
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### SPRINGER REFERENCE





H. C. Tilborg, S. Jajodia (Eds.)

### Encyclopedia of Cryptography and Security

Due June 2011

Encyclop(a)edia

2nd ed. 2011. Approx. 1500 p. (In 2 volumes, not available seperately) Hardcover

- ▶ approx. € 799,00 | £719.00
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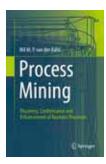
- ► approx. € 799,00 | £719.00
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**W. M. van der Aalst**, Eindhoven University of Technology, The Netherlands

### **Process Mining**

### Discovery, Conformance and Enhancement of Business Processes

The first to cover this missing link between data mining and process modeling, this book provides real-world techniques for monitoring and analyzing processes in real time. It is a powerful new tool destined to play a key role in business process management.

Due May 2011

Professional book

2011. XVI, 352 p. 184 illus., 6 in color. Hardcover

- ► € 54,95 | £49.99
- ► \* € (D) 58,80 | € (A) 60,45 | sFr 79,00 ISBN 978-3-642-19344-6

X. Yang, University of Southampton, UK; L. Wang, Indiana University, Bloomington, IN, USA; W. Jie, Thames Valley University, London, UK (Eds.)

### **Guide to e-Science**

### Next Generation Scientific Research and Discovery

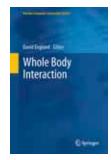
Using real-world examples, this book shows how computational technologies and tools can be used to build essential infrastructures supporting next-generation scientific research. Covers security, privacy, collaboration, automated workflow technology and more.

Due May 2011

Contributed volume

2011. XVIII, 558 p. (Computer Communications and Networks, Volume) Hardcover

- ► € 119,95 | £99.95
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**D. England**, Liverpool John Moores University, Liverpool, United Kingdom (Ed.)

### Whole Body Interaction

The concept of Whole Body Interaction explores the integration of input and output from human motion and physiology, cognitive models and emotional states. This book offers extended papers submitted to the ACM SIGCHI 2009 Workshop on Whole Body Interaction.

Due June 2011

Contributed volume

2011. VIII, 216 p. 62 illus. (Human–Computer Interaction Series) Hardcover

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- ► \* € (D) 85,55 | € (A) 87,95 | sFr 115,00 ISBN 978-0-85729-432-6

### **Economics**

J. G. Backhaus, University of Erfurt, Germany (Ed.)

### Physiocracy, Antiphysiocracy and Pfeiffer

Written by economists, philosophers and social historians, this book examines the impact of the Physiocrats and Antiphysiocrats of 18th century France. It reviews studies previously discussed only in German, and is the first analysis of Pfeiffer in a century.

Due April 2011

Contributed volume

2011. 160 p. (The European Heritage in Economics and the Social Sciences, Volume 10) Hardcover

- ► approx. € 89,95 | £79.50
- ► approx. \* € (D) 96,25 | € (A) 98,95 | sFr 137,00 ISBN 978-1-4419-7496-9

R. Capello, U. Fratesi, Politecnico di Milano, Italy; L. Resmini, Università della Valle d'Aosta, Italy

### Globalization and Regional Growth in Europe

**Past Trends and Future Scenarios** 

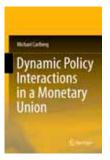
This book highlights which European regions have succeeded in taking advantage of globalization trends and identifies the reasons for their success. It also offers an analysis utilizing scenarios based on assumptions of how globalization trends will develop.

Due June 2011

Monograph

2011. 300 p. 87 illus., 35 in color. (Advances in Spatial Science) Hardcover

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**M. Carlberg**, Helmut Schmidt University, Hamburg, Germany

### Dynamic Policy Interactions in a Monetary Union

This volume studies the dynamics of monetary and fiscal interactions in Europe. The text focuses on sequential policy decisions, simultaneous and independent policy decisions, and policy cooperation.

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Monograph

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H. Chen, Academy of Sciences, Beijing, China (Ed.)

### **Large Research Infrastructures Development in China:** A Roadmap to 2050

This book details the strategy, deployment, layout and phased objectives of national, large research infrastructures in China by 2050. It offers in-depth analysis of the main directions in such key fields as nuclear energy, astronomy and life science.

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#### Monograph

2011. Approx. 170 p. 28 illus. in color. Softcover

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R. Crescenzi, A. Rodríguez-Pose

### **Innovation and Regional Growth in the European Union**

This book investigates the EU's regional growth dynamics and the reasons why peripheral and socio-economically disadvantaged areas have failed to catch up with the rest of the Union. It identifies the distinctive features of the European process of innovation.

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H. Dawid, University of Bielefeld, Germany; W. Semmler, New School for Social Research, New York, NY, USA (Eds.)

### **Computational Methods in Economic Dynamics**

Computational Methods in Economic Dynamics focuses on market design and resulting market dynamics. The text covers institutional details of particular markets, behavioral details of agents' decision making, as well as spillovers between markets and effects.

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#### Contributed volume

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L. De Benedictis, University of Macerata, Italy; L. Salvatici, University of Roma Tre, Rome, Italy (Eds.)

### The Trade Impact of European **Union Preferential Policies**

An Analysis Through Gravity Models

This thorough inquiry into the EU's preferential trade policies finds that the delivery of the schemes' aims has varied. The book takes an eclectic but rigorous approach to analyzing the econometrics by combining different specifications of the gravity model.

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2011. 250 p. 15 illus. Hardcover

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D. Delli Gatti, S. Desiderio, Università Cattolica di Milano, Italy; E. Gaffeo, Università di Trento, Italy; P. Cirillo, University of Bern, Switzerland; M. Gallegati, Università Politecnica delle Marche, Ancona, Italy

### Macroeconomics from the **Bottom-up**

This book arises from a conviction that the NNS-DSGE approach to the analysis of aggregate market outcomes is fundamentally flawed. It offers the first complete analysis of an agent-based macroeconomic model, from theoretical foundation to empirical testing.

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S. Felder, T. Mayrhofer, University of Duisburg-Essen,

### **Medical Decision Making**

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This textbook discusses medical decision making under uncertainty, combining informative test theory with the expected utility hypothesis. Readers will learn how the parameters of Bayes' theorem can be combined with a value function of health states to arrive at informed test and treatment decisions

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M. Fleurbaey, University Paris Descartes, CERSES, Paris, France; M. Salles, University of Caen, CREM, Caen, France; J. A. Weymark, Vanderbilt University, Nashville, TN. USA (Eds.)

### Social Ethics and Normative Economics

### **Essays in Honour of Serge-Christophe Kolm**

This collection of thirteen essays on normative economics honours Serge-Christophe Kolm's seminal contributions to this field and addresses a wide variety of central questions in economics, from public sector pricing to methods of measuring inequality.

Due April 2011

Commemorative publication

2011. 365 p. 33 illus. (Studies in Choice and Welfare) Hardcover

- ► € 119,95 | £108.00
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**G. Li**, Guojie Li, Chinese Academy of Sciences, Beijing, China (Ed.)

# Information Science & Technology in China: A Roadmap to 2050

This book examines long-term trends in China's information technology development. It offers an in-depth analysis of China's requirements for information technology and identifies the essential challenges.

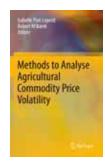
Due April 2011

Monograph

► Distribution rights in China: Science Press Ltd.

2011. XXIV, 146 p. 15 illus., 14 in color. Softcover

- ► approx. € 69,95 | £62.99
- ► approx. \* € (D) 74,85 | € (A) 76,95 | sFr 100,50 ISBN 978-3-642-19070-4



**I. Piot-Lepetit**, **R. M'Barek**, European Commission, Joint Research Centre, ISeville, Spain (Eds.)

### Methods to Analyse Agricultural Commodity Price Volatility

This book examines the issue of price volatility in agricultural commodities markets and how this phenomenon has evolved in recent years. It helps readers understand this volatility and develop new agricultural policies.

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Contributed volume

2011. 300 p. 49 illus. in color. Hardcover

- ► approx. € 104,95 | £93.00
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**W. Rothengatter**, University of Karlsruhe, Karlsruhe, Germany; **Y. Hayashi**, Nagoya University, Nagoya City, Japan; **W. Schade**, Fraunhofer Institute Systems and Innovation Research ISI, Karlsruhe, Germany (Eds.)

### Transport Moving to Climate Intelligence

New Chances for Controlling Climate Impacts of Transport after the Economic Crisis

Transportation accounts for roughly a third of greenhouse gas emissions, and it remains a growing sector. This book offers practical suggestions in its analysis of the challenge transport presents today, as well as examining its role in future climate policy.

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Contributed volume

2011. X, 344 p. 18 illus. (Transportation Research, Economics and Policy) Hardcover

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- ► \* € (D) 106,95 | € (A) 109,95 | sFr 143,50 ISBN 978-1-4419-7642-0

**A. van de Heetkamp**, West Sacramento, CA, USA; **R. Tusveld**. PwC. Rotterdam, Netherlands

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### **Rules of Origin in Free Trade Agreements**

This volume sets out a holistic approach that allows companies operating internationally to secure reduced import duties in Free Trade Agreements (FTAs) through the creation of a single, auditable, global platform that facilitates preferential origin claims.

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**P. J. Welfens**, University of Wuppertal, Germany

## 3<sub>RD</sub>

### Innovations in Macroeconomics

Modern macroeconomics suffers from an unclear link between short-term Keynesian analysis and long-term growth modelling. This book presents a new link between monetary analysis and growth modelling in open economies. Structural change, innovations and growth are considered from a new perspective. With respect to economic policy - in particular innovation policy - the analysis implies major changes, concerning both EU countries and other leading OECD economies.

Due May 2011

Monograph

3rd ed. 2010. 640 p. Hardcover

- ► € 139,95 | £126.00
- ► \* € (D) 149,75 | € (A) 153,94 | sFr 201,00 ISBN 978-3-642-11907-1



T. Yamano, K. Otsuka, National Graduate Institute for Policy Studies, Tokyo, Japan; F. Place, World Agroforestry Centre, Nairobi, Kenya (Eds.)

### **Emerging Development of Agriculture in East Africa**

Markets, Soil, and Innovations

Based on a study of 2,400 households in three countries–Kenya, Uganda, and Ethiopia–this book provides unprecedented insight into how agricultural productivity can be improved. It covers recent successful innovations and ways to overcome continued obstacles.

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- ► € 129,95 | £117.00
- ► \* € (D) 139,05 | € (A) 142,94 | sFr 186,50 ISBN 978-94-007-1200-3



**Q. Zhao**, **J. Huang**, Chinese Academy of Sciences, Beijing, China (Eds.)

# Agricultural Science & Technology in China: A Roadmap to 2050

This report addresses the issue of long-range planning in developing science and technology related to agriculture. Crafting a roadmap for this sphere of advancement right up to 2050, it is part of China's preparations for a coming technical revolution.

Due March 2011

#### Monograph

▶ Distribution rights in China: Science Press Ltd.

2011. Approx. 180 p. 13 illus. in color. Softcover

- ► approx. € 69,95 | £62.99
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### **Mathematics**

K. Aomoto, M. Kita

### Theory of Hypergeometric Functions

This book presents a geometric theory of complex analytic integrals representing hypergeometric functions of several variables. It shows that hypergeometric integrals generally satisfy holonomic system of linear differential equations.

Due June 2011

#### Monograph

2011. V, 315 p. 30 illus. (Springer Monographs in Mathematics) Hardcover

- ▶ approx. € 89,95 | £81.00
- ► approx. \* € (D) 96,25 | € (A) 98,95 | sFr 129,00 ISBN 978-4-431-53912-4

W. Arendt, University of Ulm, Germany; C. J. Batty, St. Johns College, Oxford, UK; M. Hieber, TU Darmstadt, Germany; F. Neubrander, Louisiana State University, Baton Rouge, USA



### Vector-valued Laplace Transforms and Cauchy Problems

**Second Edition** 

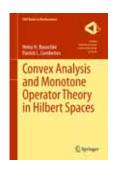
In addition to systematic coverage of vector-valued Laplace transform theory, ranging from representation to Tauberian theorems, this second edition develops the theory of linear Cauchy problems and semigroups of operators and introduces the Bochner integral.

Due April 2011

#### Monograph

2nd Edition. 2011. XII, 540 p. (Monographs in Mathematics, Volume 96) Hardcover

- ► approx. € 99,95 | £84.00
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H. H. Bauschke, University of British Columbia, Kelowna, B.C., Canada; P. L. Combettes, Université Pierre et Marie Curie, Paris, France

### Convex Analysis and Monotone Operator Theory in Hilbert Spaces

This book examines results of convex analysis and optimization in Hilbert space, presenting a concise exposition of related theory that allows for algorithms to construct solutions to problems in optimization, equilibrium theory, monotone inclusions and more.

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- ► approx. € 91,90 | £83.00
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**E. D. Bloch**, Department of Mathematics, Bard College, Annandale-on-Hudson, NY, USA

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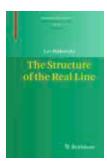
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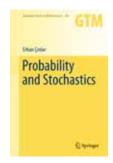
Examining the real line and its subsets, this book incorporates recent work in set theory. Rigorous and self-contained, it eschews wherever possible the full axiom of choice and revisits all the necessary material from topology to descriptive set theory.

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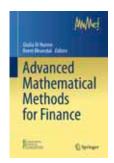
This book provides a comprehensive treatment of extrapolation theory. Starting from an extremely clear and simple proof of the classical result of Rubio de Francia, the authors show how the key ideas can be used to extend the theory to a variety of contexts.

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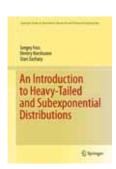
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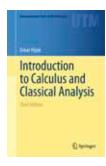
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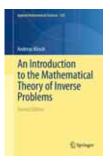
'Peacocks' and their associated mathematical phenomena, 'martingales', play a key role in the mathematics of finance. This monograph uses a variety of methods from time inversion to Skorokhod embeddings in its exploration of peacocks and martingales.

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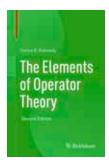
This book introduces the area of inverse problems. It examines basic notions and difficulties encountered with ill-posed problems and presents two special nonlinear inverse problems in detail: the inverse spectral problem and the inverse scattering problem.

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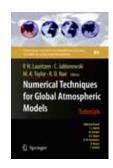
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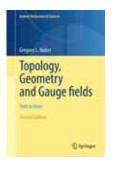
This book surveys recent developments in numerical techniques for global atmospheric models. It reveals the many steps that determine the global atmospheric model design.

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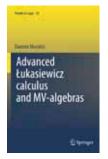
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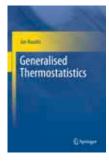
This volume covers recent developments in Lukasiewicz Logic and their algebras (Chang MV-algebras), with particular reference to (de Finetti) coherent evaluation of continuously valued events, (Renyi) conditionals, and related algorithms.

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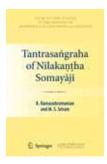
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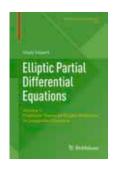
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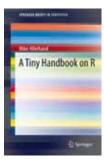
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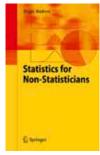
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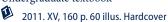
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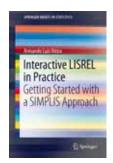
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