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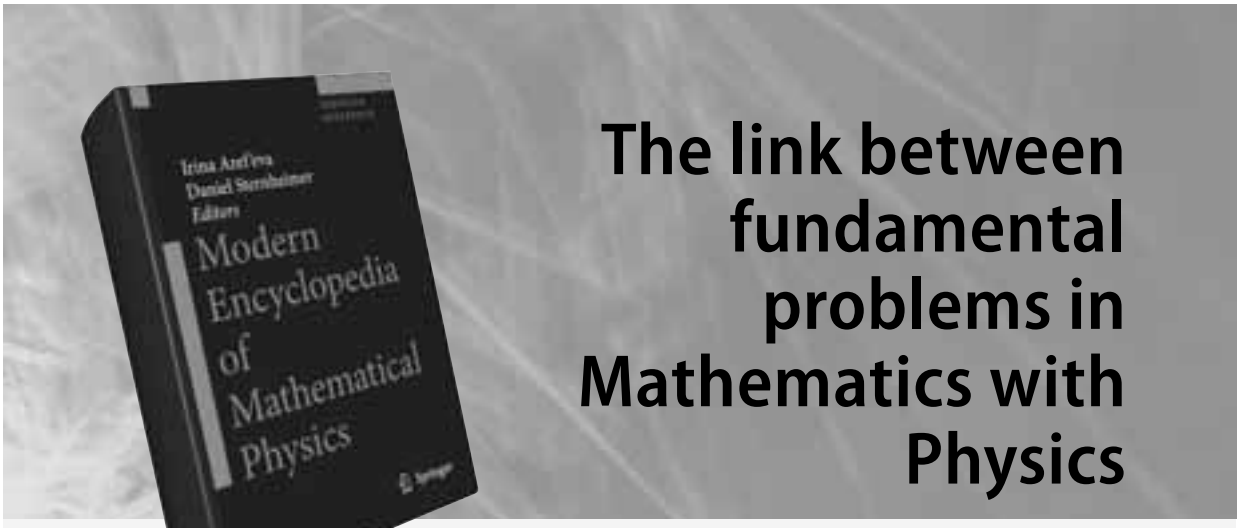

The link between fundamental problems in Mathematics with Physics

Modern Encyclopedia of Mathematical Physics*

Irina Aref'eva, Steklov Mathematical Institute, Moscow, Russia; **Daniel Sternheimer**, Université de Bourgogne, Dijon, France (Eds.)

The Modern Encyclopedia of Mathematical Physics (MEMPhys) is a truly 21st century scientific encyclopedia, emphasizing mathematical physics as opposed to mathematics on one side and physics on the other. The central idea is to create a modern version of Maimonides' Guide for the Perplexed, albeit limited to this multidisciplinary field. MEMPhys seeks to be a model for locating authoritative overviews and an efficient starting point for researchers and students at any level. The contributions are written in precise mathematical language with clear indication of heuristic aspects, with physical interpretations or applications serving as examples. Since this reference anticipates and seeks as wide a scientific audience as possible, students of mathematical physics, physics, and mathematics readily find concise summaries of recent profound ideas and are sure to get a stimulating idea of their interrelations.

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Fachgebietsindex I
Titelindex VIII
neu ► Rückrufe 145
neu ► Ladenpreisaufhebungen 146
Bestellschein 147

Biologie 107
Biomedizin 24
Chemie 69
Computerbuch 46
Erziehungswissenschaften 130
Geowissenschaften 103
Informatik 48
Kunst/Design 144
Management 120
Materialwissenschaften 99
Mathematik 33
Medizin 1
Pharmazie 23
Philosophie 137
Physik/Astronomie 91
Psychologie 28
Recht 125
Religion 142
Sozialwissenschaften 132
Sprachwissenschaften 142
Statistik 44
Technik 73
Umweltwissenschaften 106
Wirtschaftswissenschaften 115
Wissenschaft, allgemein 127

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107 Bationo (Eds), Advances in Integrated Soil Fertility Research in sub-Saharan Africa
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(Wageningen UR Frontis 18)
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(Ecol. Stud. 195)
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(Springer-Lehrbuch) 2. Aufl.
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(Plant Cell Monographs 8)
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(Principles/Practice)
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(Animal Welfare 4)
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(Animal Welfare 1)
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(Methods in Molecular Biology 402)

Wirtschaftswissenschaften

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(Sustain. Econ. Nat. Res. 3)
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(Econ. Non-Market Goods 10)
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(Adv. Spatial Sc.)
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(Springer-Lehrbuch) 4. Aufl.
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(Meilensteine der Nationalökonomie)
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(Meilensteine der Nationalökonomie)
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(Meilensteine der Nationalökonomie) 3. Aufl.
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(ISIS)
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(ISIS)
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(ISORMS)
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(ISORMS)
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(Int.Ser.Operations Res. 99)
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(Tort and Insurance Law 22)
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(Law Philos. Libr. 82)
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Wissenschaft, allgemein

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(Le Stelle)
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(Lifelong Learning 11)
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(Models Sc. Educ. 1)
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(Sci./Tech. Educ. Libr. 26) <soft>

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139 Murray, The Moral Wager (Philosophical Studies Series 108)
139 Nottelmann, Blameworthy Belief (Synthese Libr. 338)
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141 Weisstub (Eds), Autonomy and Human Rights in Health Care (Int. Libr. Ethics 36)
141 Wright, Means, Ends and Medical Care (Philos./Med. 92)

Religion

142 Glas (Eds), Hearing Visions and Seeing Voices

Sprachwissenschaften

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Kunst/Design

144 Eemeren (Eds), Argumentative Indicators (Argumentation Library 12)

Birkhäuser

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STEINKOPFF DARMSTADT

4 Gouzoulis-Mayfrank, Komorbidität Psychose und Sucht. 2. Aufl.

A

140 Accessing and Sharing the Benefits of the Genomics Revolution
55 Achievements in European Research on Grid Systems
88 Advanced Computational Intelligence Paradigms in Healthcare - 2
73 Advanced Intelligent Paradigms in Computer Games
40 Advanced Linear Algebra
62 Advanced Methods for Inconsistent Knowledge Management
77 Advances and Innovations in Systems, Computing Sciences and Software Engineering
58 Advances in Artificial Intelligence
77 Advances in Biologically Inspired Information Systems
62 Advances in Cryptology - EUROCRYPT 2007
52 Advances in Data and Web Management
81 Advances in Evolutionary Computing for System Design
51 Advances in Grid and Pervasive Computing
107 Advances in Integrated Soil Fertility Management in sub-Saharan Africa: Challenges and Opportunities
89 Advances in Intelligent Web Mastering
87 Advances in Life Cycle Engineering for Sustainable Manufacturing Businesses
75 Advances in Material Forming
60 Advances in Neural Networks - ISNN 2007
61 Advances in Neural Networks - ISNN 2007
84 Advances in Turbulence XI
66 Agent-Based Approaches in Economic and Social Complex Systems
53 Agent-Mediated Electronic Commerce
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4 AJCC Atlante per la stadiazione dei tumori
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6 Allergy Methods and Protocols
132 Allocating Public and Private Resources across Generations
83 Analysis and Design of Intelligent Systems using Soft Computing Techniques
8 Anästhesie und Intensivmedizin
19 Anatomie und Physiologie
94 The Anomalous Magnetic Moment of the Muon
26 Antiangiogenic Agents in Cancer Therapy
111 The Apoplast of higher plants: Compartment of Storage, Transport and Reactions
4 Apoptosis, Senescence and Cancer
41 Applied Linear Algebra and Matrix Analysis
135 An Archaeological Evolution
134 Archaeology at the Millennium
144 Argumentative Indicators
127 Armageddon
10 Arrhythmogenic right ventricular cardiomyopathy/dysplasia
56 Artifical Intelligence for Human Computing
3 Artrite reumatoide e spondiloentesoartriti
104 Asian-Pacific Coasts and Their Management: States of Environment
78 Assessment and Future Directions of Nonlinear Model Predictive Control
6 Atlas of Fundus Autofluorescence Imaging
96 Atomic and Molecular Data and Their Applications
15 Auriculothérapie
141 Autonomy and Human Rights in Health Care

B

19 Basiswissen Chirurgie
107 Basiswissen Physik, Chemie und Biochemie
25 Basiswissen Physiologie
44 Bayesian Computation with R
117 Beiträge zur Geldtheorie
69 Berichte zur Lebensmittelsicherheit 2005
19 Betriebliche Gesundheitsförderung erfolgreich umsetzen
124 Die Betriebsleitung insbesondere der Werkstätten
70 Bioactive Heterocycles II
111 Biodiversity in Enclosed Seas and Artificial Marine Habitats
73 Bioelectricity
109 Biologie von Parasiten
139 Blameworthy Belief
80 Broadband Opto-Electrical Receivers in Standard CMOS
138 Business Ethics of Innovation
123 The Business Plan

C

134 Case Studies in Environmental Archaeology
10 Case Studies in Ethics and HIV Research
92 Charge Migration in DNA
124 China-Handbuch für Manager
6 Chirurgie - Basisweiterbildung
112 Class 2 Transferases X
30 Clinical Neuroanatomy
54 Cognition, Communication and Interaction
40 Cohomology of Number Fields
42 Colloquium De Giorgi 2006
72 Combinatorial Chemistry on Solid Supports
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83 Compressor Instability
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101 Computational Quantum Mechanics for Materials Engineers
65 Computational Science - ICCS 2007
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58 Conceptual Modelling in Information Systems Engineering
56 Confabulation Theory
31 Conjoint Behavioral Consultation
113 Conservation in the 21st Century: Gorillas as a Case Study
39 Continuation Problems and Solving Boundary Value Problems: a Continuing Influence in Dynamics
86 Continuous-Time Systems
42 Control of Turbulent and Magnetohydrodynamic Channel Flows
91 Controlled Nucleosynthesis
9 Controversies in Treating Diabetes
9 Couverture des pertes de substances cutanées de la main et des doigts
131 Critical Graphicacy
31 Cross-Cultural Assessment of Psychological Trauma and PTSD
135 Cultural Heritage and Human Rights
25 Current Topics in Innate Immunity

D

18 Danno vascolare e tromboemostasi
36 David Hilbert's Lectures on the Foundations of Arithmetic and Logic, 1917-1933
39 David Hilbert's Lectures on the Foundations of Physics, 1915-1927: Relativity, Quantum Theory and Epistemology
91 Deformed Spacetime
129 Depression und Manie
90 Designing with Video
31 Developing Prosocial Communities Across Cultures
107 Developments in Fish Telemetry
119 Digital Excellence
43 Diophantine Geometry
93 Dressing Methods in Mathematical Physics
121 Dynamic Optimization and Differential Games

E

103 Earth Observation of Global Change
2 Ecografia in oncologia
108 The Ecology of Browsing and Grazing
108 Ecology of Tidal Freshwater Forested Wetlands of the Southeastern United States
105 Einführung in die Archäometrie
85 Elektrische Antriebe - Grundlagen
84 Elektro- und Regeltechnik
41 Elementary Dirichlet Series and Modular Forms
22 Eliminating Healthcare Disparities in America
59 Embedded Software and Systems
63 Embedded System Design
30 Emerging and Young Adulthood
116 Endogenous Public Policy and Contests
110 Endosperm

121 Entwicklung IT-basierter Dienstleistungen
5 Erfolgreiches Marketing für die Arztpraxis
18 Erste Hilfe - Chemie und Physik
21 Essentials of Creatine in Sports and Health
140 Ethics, Hunger and Globalization
60 Euro-Par 2006 Parallel Processing
103 The European Information Society
45 Evaluating Clinical Research
101 Evolving Methods for Macromolecular Crystallography

F

139 The Family, Medical Decision-Making, and Biotechnology
23 Farmacognosia applicata
14 Fecal Incontinence
35 Financial Markets in Continuous Time
118 Finanzpolitik
12 Flow Cytometry in Hematopathology
70 Food Physics
50 Formal Methods for Performance Evaluation
137 Formalizing Medieval Logical Theories
133 Fragile Families and the Marriage Agenda
108 Fresh Herbage for Dairy Cattle
36 From Gestalt Theory to Image Analysis
86 Frontiers in Computing Technologies for Manufacturing Applications
97 Frontiers of Fundamental Physics (FFP 8)
117 Führer durch die Krisenpolitik
76 Functional Fractional Calculus for System Identification and Controls
102 Fundamentals of Radiation Materials Science
101 Fundamentals of the Physics of Solids

G

91 Gamma-ray Bursts – Prospects for GLAST
26 Gene Function Analysis
118 Geschichte der Volkswirtschaftslehre
138 Geschichte des Husserl-Archivs History of the Husserl-Archives
10 Global Perspectives on Health Promotion Effectiveness
116 Globalization and Regional Economic Modeling
105 GPS
38 Graphs, Networks and Algorithms
117 Die Grenzen der Wirtschaftspolitik
63 Grid and Peer-To-Peer Technologies
39 Gruppi

H

40 Hamiltonian Reduction by Stages
57 Handbook of Biometrics
54 Handbook of Database Security
74 Handbook of Mathematics
124 Handbook of Operations Research in Natural Resources
135 Handbook of Social Movements Across Disciplines
136 Handbook of the Sociology of Racial and Ethnic Relations
121 Handbuch Corporate Citizenship
109 Handbuch der Theorien in der biologiedidaktischen Forschung
142 Hearing Visions and Seeing Voices
22 Herzinsuffizienz
72 High Energy Density Materials
98 Hipparcos, the new Reduction of the Raw Data
140 How to Think about Meaning
25 The Human Central Nervous System
28 Humaner Strafvollzug

I

12 I disturbi della consapevolezza nelle malattie neuropsichiatriche
112 Imaging Cellular and Molecular Biological Functions
88 Impulse Breakdown of Liquids
7 Indian Medicinal Plants
1 Inflammatory Bowel Disease - Diagnostic and Therapeutic Strategies
53 Informatics in Control, Automation and Robotics II
64 Information Security Theory and Practices. Smart Cards, Mobile and Ubiquitous Computing Systems
123 Information, Organization and Management
24 Innate Immunity
86 Innovations and Advanced Techniques in Computer and Information Sciences and Engineering
81 Innovations in E-learning, Instruction Technology, Assessment and Engineering Education
75 Innovations in Intelligent Machines - 1
87 Innovative Algorithms and Techniques in Automation, Industrial Electronics and Telecommunications
71 Inorganic Chromotropism
66 Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems
68 Intelligence and Security Informatics: Biosurveillance
64 Intelligent Computing Everywhere
44 Interactive and Dynamic Graphics for Data Analysis
51 Interactive TV: a Shared Experience
130 International Handbook of Career Guidance
133 International Migration, Social Demotion, and Imagined Advancement
100 Introduction to Modeling and Engineering Applications of Shape Memory Alloys
34 Iterative Approximation of Fixed Points
80 IUTAM Symposium on Dynamics and Control of Nonlinear Systems with Uncertainty

J

46 Java-Intensivkurs
115 Justifying, Characterizing and Indicating Sustainability

K

7 Kinder- und Jugendmedizin
13 Kleine Arzneimittellehre für Fachberufe im Gesundheitswesen
4 Komorbidität Psychose und Sucht - Grundlagen und Praxis
15 Kompendium Praktische Psychiatrie

L

94 Landolt-Börnstein, Gr. 3, Vol. 34, Subvol. C
48 Languages and Compilers for Parallel Computing
95 Lasers in the Conservation of Artworks
134 Latino/as in the United States
125 Law as Symbolic Form
131 Learning and Teaching for the Twenty-first Century
109 Legionella Pneumophila: Pathogenesis and Immunity
21 Leistungsphysiologie
138 A Life (Un)Worthy of Living
77 Linear Estimation and Detection in Krylov Subspaces
110 Lipid Rafts
49 Logic Programming and Nonmonotonic Reasoning
49 Logical Foundations of Computer Science

M

120 Mapping Nanotechnology Innovations and Knowledge
125 Maritime Work Law Fundamentals: Responsible Shipowners, Reliable Seafarers
46 Markov Models for Pattern Recognition
34 Matematica: si parte!
99 Material Inhomogeneities and their Evolution
33 Mathematical Bridges
41 Mathématiques et Technologie
104 MATLAB® Recipes for Earth Sciences
59 Maturing Usability
141 Means, Ends and Medical Care
120 Measuring Entrepreneurship
16 Mechanisms of Insulin Action
1 Medicina dell'età prenatale

1 Medicina fisica e riabilitativa nei disturbi di equilibrio
82 Metallfedern
14 Mezzi di contrasto in ecografia
70 Microarrays
123 Microfinance Investment Funds
97 Mindful Universe
79 Mobile Phone Programming
37 Modelli Matematici in Biologia
38 Modelling, Analysis and Optimization of Biosystems
88 Modern Power Systems Analysis
93 Molecular Processes in Plasmas
24 Molecular Targeting in Oncology
106 Monitoring of Harmful Algae Blooms
26 Monoaminergic Modulation of Cortical Excitability
139 The Moral Wager
3 MRI and Trials of Neurodegeneration in Multiple Sclerosis
82 Multiphase reacting flows: modelling and simulation
79 Multiple Abstraction Hierarchies for Mobile Robot Operation in Large Environments
55 Multiple Classifier Systems
44 Multiscale Modeling
127 La musica del Big Bang

N

100 Nanopackaging
24 Nanoparticles in Biomedical Imaging
102 Nanostructured Soft Matter
115 National Tax Policy in Europe
2 NATO AND TERRORISM: On Scene:Emergency Management after a Major Terror Attack
133 Neo-Liberalism, State Power and Global Governance
51 Network Control and Optimization
48 NETWORKING 2007. Ad Hoc and Sensor Networks, Wireless Networks, Next Generation Internet
85 Networks and Grids
61 Neural Preprocessing and Control of Reactive Walking Machines
14 Neuropathology Review
67 New Approaches for Security, Privacy and Trust in Complex Environments
82 New Technologies, Mobility and Security
37 Numerical Simulation in Molecular Dynamics

O

122 Offshoring von Zentralbereichen
11 On Bypass
9 OP-Handbuch
76 Optimal Control of Constrained Piecewise Affine Systems
119 Die Ordnung des Wirtschaftslebens
69 Organometallic Chemistry and Catalysis

P

71 Parasiten des Fischfilets
36 Partial Differential Equations
96 Particle Image Velocimetry
114 PCR Primer Design
97 Phase Transitions of Simple Systems
130 Philosophical Perspectives on Lifelong Learning
100 Physics of Zero- and One-Dimensional Nanoscopic Systems
80 Physik für Ingenieure
111 Plant Proteomics
137 Pluralistic Casuistry
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42 Poisson-Geometrie und Deformationsquantisierung
33 Polarization and Moment Tensors
99 Polarons in Advanced Materials
35 Positivity
104 The Post-Socialist City
55 Precision Landmark Location for Machine Vision and Photogrammetry
33 Problems of High Altitude Medicine and Biology
83 Process Modelling, Identification, and Control
57 Programmieren in C
29 Promoting Self-Change from Addictive Behaviors
45 Proportional Hazards Regression
113 Proteome Research
29 The Psychoanalysis of Symptoms
28 Psychologie der Persönlichkeit
11 Psychosomatik in der Gastroenterologie
5 Public Health Behind Bars

Q

92 QNP 2006

R

7 Rapid ECG Interpretation
126 Rauschdrogen
96 Relativity and the Dimensionality of the World
3 Renal Stone Disease
69 Reports on Food Safety 2005
48 Resources, Co-Evolution and Artifacts
8 Revision of loose femoral prostheses with a stem system based on the press-fit
72 Rheology of Fluid and Semisolid Foods: Principles and Applications
129 Robotic Exploration of the Solar System
20 The role of physical exercise in disease prevention and quality of life improvement
67 Rough Sets and Knowledge Technology
49 Rough Sets, Fuzzy Sets, Data Mining and Granular Computing

S

103 Satellite Monitoring of Volcanoes
35 Scientific Computing in Electrical Engineering
62 Securing Wireless Sensor Networks
102 Self Healing Materials
54 The Semantic Web: Research and Applications
63 Semantic Web Services Challenge
20 Seniorenspielbuch
94 Sensing with Ion Channels
61 Service Availability
56 Service-Oriented Computing: Agents, Semantics, and Engineering
122 Serviceorientierte Architektur
95 Shape of Hadrons
99 Shaped Crystals
125 Shifts in Compensation between Private and Public Systems
52 Signal Processing for Image Enhancement and Multimedia Processing
18 Simplified Facial Rejuvenation
79 Simulation of Semiconductor Processes and Devices 2007
92 Sixth International Conference of the Balkan Physical Union
30 Social Competence in Children
132 Sociological Practice
132 The Sociology of Loyalty
53 Software Measurement
67 Software Process Dynamics and Agility
29 Sozialpsychologie
110 Spezielle Geobotanik
128 Spies in the Sky
74 Springer Handbook of Speech Processing
89 Standardized Functional Verification
127 Star Maps
128 State of the Universe 2008
27 Stem Cell Assays
116 Studienarbeiten schreiben
122 Supply Chain Games
8 Surgical Proctology
115 Sustainable Resource Use and Economic Dynamics
93 SUSY06
85 Switched-Capacitor Techniques for High-Accuracy Filter and ADC Design

T

2 Targeted Therapies in Cancer
120 Terrorism Informatics
75 Theoretical Advances and Applications of Fuzzy Logic and Soft Computing
50 Theory and Applications of Models of Computation
28 Therapieziel Wohlbefinden
128 Thinking in Complexity
84 Three-Dimensional Television
37 Topology-based Methods in Visualization

U

59 Übungsbuch zur Linearen Algebra und analytischen Geometrie
74 Ultra Low Power Capacitive Sensor Interfaces
73 Ultrasonic Processes and Machines
71 Une politique mondiale pour nourrir le monde
13 Urodynamik
12 Urological Oncology
15 Uroonkologie
118 Using Discrete Choice Experiments to Value Health and Health Care

V

57 The VC-1 and H.264 Video Compression Standards for Broadband Video Services
64 Variable-length Codes for Data Compression
87 Verilog and SystemVerilog Gotchas
137 Virtue, Liberty, and Toleration
130 Visualization in Science Education
38 Visuelle Kryptographie
22 Vitreoretinal Surgery

W

112 The Welfare of Dogs
113 The Welfare of Horses
106 Water Supply in Emergency Situations
34 Wavelets
52 Web Development with Java
58 Web Information Extraction and Integration
78 Wertstromdesign
78 WiMAX
50 Wired/Wireless Internet Communications
143 Words and Intelligence II

X

95 X-Ray Lasers 2006

Z

16 Das Zweite - kompakt
17 Das Zweite - kompakt

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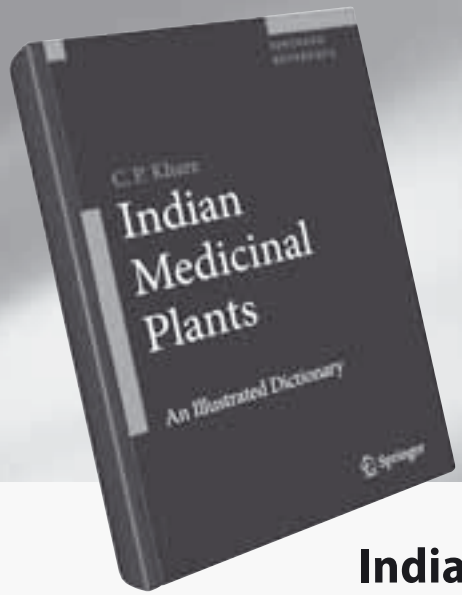

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Inflammatory Bowel Disease - Diagnostic and Therapeutic Strategies

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Prevenzione, diagnosi e terapia dei difetti congeniti e delle principali patologie gravidiche

Sono descritte le tecniche di diagnosi prenatale dei difetti congeniti e delle principali patologie genetiche.
Sono trattati i principali aspetti clinici , diagnostici e preventivi delle patologie gravidiche materno/fetali.
Lo scopo è quello di presentare in un unico testo le molteplici problematiche (ostetriche, genetiche, internistiche e medico legali) connesse alla gravidanza, dal consulto preconcezionale al parto. Il volume contiene un CD accluso con informazioni su un migliaio di malattie genetiche di interesse prenatale.

Fields of interest
Ostetricia/perinatologia; Genetica umana; Ultrasuoni

Target groups
Medicina e chirurgia e agli specializzandi in ginecologia ed ostetricia

Type of publication
Testo specializzato/specialistico

Pubblicazione prevista per il mese di luglio 2007

Edizione originale stampata da Idelson-Gnocchi, Napoli 2002

2nda ed. 2007. Ca. 610 pagg. Con CD-ROM. Cartonato

► approx. * **€ (D) 149,13 | € (A) 153,32 | sFr 228,50**
ISBN 978-88-470-0687-4

G. Brugnoni, Università di Siena, Italia; **D. Alpini**, Servizio ORL-Otoneurologia IRCCS S. Maria Nascente, Milano, Italia

Medicina fisica e riabilitativa nei disturbi di equilibrio

Con contributi di: A. Cesarani, P. Bavera, S. Livian, F. Marin

Il libro espone un approccio diagnostico basato su una semeiotica clinica molto approfondita, ripetibile, con alta validità interoperatore. Espone anche una ampia gamma di terapie tutte appartenenti alla „medicina convenzionale" e un utilizzo razionale di queste terapie, impiegate secondo adatte strategie nei vari quadri clinici descritti. Svolge aspetti nuovi e particolari nel trattamento di problemi connessi alla colonna vertebrale: disturbi del sistema di equilibrio di origine propriocettiva, medicina sportiva, nuove per l'ernia discale, biofeedback, ecc. Inoltre non rinuncia a una esposizione sintetica delle basi anatomo fisiologiche del movimento e del dolore, agli aspetti psico-emozionali, a quelli medico-legali.

Contents
Parte Prima: Basi Anatomo-fisiologiche.- Capitolo 1: Sistema vestibolare.- Capitolo 2: Rachide.- Capitolo 3: Controllo della postura e della stabilità dinamica della testa.- Capitolo 4: Controllo della postura e regolazione cardio-respiratoria.- Capitolo 5: Modello funzionale del controllo dell'equilibrio.- Parte Seconda: Diagnosi.- Capitolo 6: Anamnesi.- Capitolo 7: Esame clinico vestibolare.- Capitolo 8: Esame del rachide.- Capitolo 9: Esami strumentali.- Capitolo 10: Bilancio funzionale e diagnosi di trattamento.- Parte Terza: Terapia.- Capitolo 11: Rieducazione vestibolare.- Capitolo 12: Manipolazioni vertebrali e terapie manuali.- Capitolo 13: Rieducazione posturale.- Capitolo 14: Terapia fisica strumentale.- Capitolo 15: Terapia farmacologia.– Parte quarta: Clinica.- Capitolo 16: Vertigine acuta.- Capitolo 17: Vertigine parossistica posizionale.- Capitolo 18: Malattia di Menière.- Capitolo 19: Vertigine „cervicale".

Fields of interest
Ortopedia; Neuroradiologia; Ortopedia conservativa

Target groups
Fisiatri, Reumatologi, Neurologi, Algologi, Medici sportivi, Ortopedici, Neurochirurgi

Type of publication
Monografia

Disponibile

2007. XVIII, 286 pagg. Brossura

► * **€ (D) 60,65 | € (A) 62,35 | sFr 93,00**
ISBN 978-88-470-0576-1

O. Catalano, **A. Siani**, INT "Fondazione G. Pascale", Napoli, Italia

Ecografia in oncologia

Testo-Atlante di ultrasonologia diagnostica e interventistica dei tumori

Con contributi di: A. Avallone, P. Delrio, A. Gallipoli D'Errico, P. Marone, M. Mattace Raso, A. Nunziata, F. Sandomenico, P. Vallone

From the contents
Introduzione.- Ecografia e oncologia: I vantaggi dell'ecografia in campo oncologico. I limiti dell'ecografia in campo oncologico. Ecografia e screening oncologico. Ecografia e neoangiogenesi. La stadiazione dei tumori maligni. Ecografia e valutazione della risposta terapeutica. Ecografia e follow-up oncologico. Residuo e recidiva tumorale.- Metodologia d'esame e semeiotica elementare: Ecografia in scala dei grigi – Metodologia d'esame. Ecografia in scala dei grigi – Semeiotica elementare. Doppler spettrale – Metodologia d'esame. Doppler spettrale – Semeiotica elementare. Ecocolor-Doppler – Metodologia d'esame. Power-Doppler – Metodologia d'esame. Ecocolor-Doppler e Power-Doppler – Semeiotica elementare. Ecocontrastografia – Metodologia d'esame. Ecocontrastografia – Semeiotica elementare.- Le problematiche cliniche: I tumori cutanei: la valutazione preoperatoria, le metastasi in transito, le metastasi satelliti.

Fields of interest
Oncologia; Oncologia chirurgica; Radiologia diagnostica

Target groups
Ecografisti, oncologi, chirurghi

Type of publication
Testo specializzato/specialistico

Pubblicazione prevista per il mese di giugno 2007

2007. Ca. 450 pagg. numerose illus. Con CD-ROM. Cartonato

► approx. *** € (D) 154,28 | € (A) 158,60 | sFr 236,50**
ISBN 978-88-470-0689-8

M. Dietel, Charité, Berlin, Germany (Ed.)

Targeted Therapies in Cancer

From its introduction, oncological chemotherapy has been encumbered by its poor selectivity because most antiproliferative drugs are toxic not only to tumor cells but also to important populations of the body's non-neoplastic cells. The resultant problems with unwanted side effects are compounded by difficulties in predicting the desired effectivity of chemotherapy in individual patients.
This unsatisfactory situation has driven intensive research and development towards more specific and less toxic anticancer drugs over the last few decades. Several results of these efforts have reached the clinic and an even greater number are now in preclinical testing.
Common to all these targeted therapies is their interaction with defined molecules present on cancer cells, which adds various degrees of increased selectivity to their toxic effects.

From the contents
Oncogenic signaling pathways and deregulated target genes. Cytostatic drug resistance and new anti-cancer targets. Neoadjuvant chemotherapy in carcinomas of the upper gastrointestinal tract. Resistance-associated signatures in breast cancer. Resistance to chemotherapy in ovarian carcinoma. Metastasis in colorectal cancer. Chemotherapy in colorectal cancer. Proteomic expression profiling of breast cancer. Targeted therapy and blood-brain-barrier. Cetuximab – appraisal of a novel drug against colorectal cancer. C-kit, GIST and Imatinib. Antibody therapy in non-Hodgkin's lymphoma: the role of rituximab, 90Y-ibritumomab tiuxetan and alemtuzumab. Proteasome inhibition. Targeted therapy of malignant lymphomas. Hormone and growth factor receptors in breast cancer.

Fields of interest
Oncology; Cancer Research

Target groups
Clinicians and researchers

Type of publication
Monograph

Due June 2007

2007. XIV, 262 p. 74 illus., 40 in color. (Recent Results in Cancer Research, Volume 176) Hardcover

► *** € (D) 139,05 | € (A) 142,95 | sFr 213,00**
ISBN 978-3-540-46090-9
Subscription price, valid for subscribers of the whole series ► * € (D) 106,95 | € (A) 109,95 | sFr 164,00

F. L. Edwards, San José State University, CA, USA;
F. Steinhäusler, University of Salzburg, Austria (Eds.)

NATO AND TERRORISM On Scene: Emergency Management after a Major Terror Attack

The New Challenges for First Responders and Civil Protection

This book provides information about how leading agencies across the NATO membership are preparing to confront and respond to terrorists deploying Weapons of Mass Destruction (WMD), Weapons of Mass Killing (WMK) and Weapons of Mass Disruption (WMDi). Based on contributions by experts from NATO member states, Israel and the Russian Federation, this book offers information on fourth generation warfare as a new challenge to first responders. It also provides a variety of insights into methods for preparing for and responding to WMD-, WMK-, and WMDi-events, using new technologies and strategies. Furthermore, the book offers solution for restoring the community to functioning after such a major terror attack. Topics include preparing, planning, operations, equipment, training and unique applications of existing technologies for countering terrorist attacks against cities and their infrastructure.

Fields of interest
Emergency Services; Vocational Education; Social Policy

Target groups
City, county and state-based emergency first responders and emergency managers

Type of publication
Proceedings

Due July 2007

2007. X, 261 p. (NATO Science for Peace and Security Series / NATO Science for Peace and Security Series B: Physics and Biophysics) Hardcover

► *** € (D) 149,75 | € (A) 153,95 | sFr 229,50**
ISBN 978-1-4020-6275-9

Also available as softcover

► *** € (D) 64,15 | € (A) 65,95 | sFr 98,50**
ISBN 978-1-4020-6276-6

A. P. Evan, **J. E. Lingeman**, **J. C. Williams** (Eds.)

Renal Stone Disease

1st Annual International Urolithiasis Research Symposium

All papers have been peer reviewed. A generation ago, the management of patients with urinary stones was forever altered with the introduction of minimally invasive treatment techniques such as shock wave lithotripsy, ureteroscopy, and percutaneous stone removal. We are again in the cusp of revolutionary developments in the management and prevention of nephrolithiasis. This conference featured a very distinguished international faculty whose present research is clearly advancing the field of stone disease. This conference marked the first presentation of data on the interface between a renal stone and its tissue attachment site.

Fields of interest
Imaging / Radiology; Minimally Invasive Surgery; Urology/Andrology

Target groups
Urologists, medical research scientists, physiologists, patients with stone disease

Type of publication
Proceedings

AIP

Available

Only available in print

2007. Approx. 460 p. (AIP Conference Proceedings, Volume 900) Softcover

► * **€ (D) 151,62 | € (A) 155,87 | sFr 232,50**
ISBN 978-0-7354-0406-9

M. Filippi, **G. Comi**, **M. Rovaris**, Scientific Institute and University, Milan, Italy (Eds.)

MRI and Trials of Neurodegeneration in Multiple Sclerosis

In multiple sclerosis (MS), conventional magnetic resonance imaging (cMRI) has proved to be a valuable tool to increase diagnostic confidence and for monitoring the efficacy of experimental treatment. However, cMRI has limited specificity and accuracy of cMRI to the most disabling aspects of the MS pathology, known to occur in and outside macroscopic lesions. Modern quantitative MR techniques have the potential to overcome the limitations of cMRI, and their application is changing dramatically our understanding of how MS causes irreversible disability. In detail, there is an increasing body of MR evidence that MS is not only a white matter disease and does not only cause focal lesions, as well as that neurodegeneration is an important aspect of the disease (since the earliest clinical phases), which is only partially related to inflammatory changes. There is also increasing perception that modern MR methodologies should be more extensively employed in clinical trials to derive innovative information. Written by world-renowned scientists, the volume provides a state-of-the-art on the most recent MRI techniques related to MS, and it will bi and indispensable tool for all those working in this field.

Features
► The application of modern quantitative MR techniques is changing dramatically our understanding of how MS causes irreversible disability
► These techniques evidence that MS is not only a white matter disease and that neurodegeneration is an important aspect of it

Fields of interest
Neurology; Neurosciences; Imaging / Radiology

Target groups
Neurologists, neuroradiologists, radiologists

Type of publication
Professional book

Due June 2007

2007. X, 232 p. (Topics in Neuroscience) Hardcover

► approx. * **€ (D) 101,60 | € (A) 104,45 | sFr 156,00**
ISBN 978-88-470-0390-3

G. Garlaschi, Università degli Studi di Genova, Italia; **F. Martino**, A.O. Policlinico, Bari, Italia (Eds.)

Artrite reumatoide e spondiloentesoartriti

Diagnostica per immagini ed imaging follow-up

Le recenti evoluzioni tecnologiche nella diagnostica per immagini hanno consentito gli cogliere le alterazioni anatomiche e funzionali che caratterizzano la fase di esordio delle artropatie degenerative ed infiammatorie. Nell'ambito di queste ultime, in particolare, l'imaging risulta non solo fondamentale nella diagnosi dello stadio early delle artriti ma anche nella definizione della loro evoluzione e della risposta al moderno trattamento terapeutico. La valutazione di una nuova semeiologia imaging, che si avvale notevolmente dell'impiego di mdc in relazione sia al power Doppler sia alla risonanza magnetica, ha consentito di restringere il gap tra istologia ed imaging nella diagnostica reumatologica.

Contents
Early arthritis: un'opportunità da cogliere grazie all'imaging.- Parte I: Artrite reumatoide. Sinossi clinica. Quadro imaging. Imaging e stadio early. Stadiazione imaging. Terapia e imaging follow-up.- Parte II: Spondiloentesoartriti sieronegative. Introduzione. Spondilite anchilosante. Artrite psoriasica. Sindrome di Reiter e artriti reattive. Spondiloartriti associate a malattie infiammatorie intestinali. Spondiloartriti indifferenziate. Imaging e stadio early. Stadiazione imaging. Terapia e imaging follow-up.- Letture consigliate.

Fields of interest
Imaging/radiologia; Radiologia diagnostica; Ultrasuoni

Target groups
Reumatologi, radiologi, ortopedici

Type of publication
Testo specializzato/specialistico

Pubblicazione prevista per il mese di giugno 2007

2007. Ca. 164 pagg. Cartonato

► approx. * **€ (D) 77,11 | € (A) 79,28 | sFr 118,50**
ISBN 978-88-470-0685-0

D. A. Gewirtz, **S. E. Holt**, **S. Grant**, Virginia Commonwealth University, Richmond, VA, USA (Eds.)

Apoptosis, Senescence and Cancer

Apoptosis, Senescence and Cancer provides insight into established practices and research into apoptosis and senescence. The volume thoroughly examines novel and emerging techniques and research in the fields of cell death pathways, senescence growth arrest, drugs and resistance, DNA damage response, and other topics that still hold mysteries for researchers.
The volume is divided into six easy to follow sections. The first is Apoptosis and Alternative Modes of Cell Death. The second is Telomeres and Telomerase, Senescence, Genomic Instability and Tumorigenesis. The third is DNA Damage Response, Signaling Pathways and Tumorigenesis, while the fourth is Resistance and Sensitization. The fifth covers Established Cancer Therapies, and the final section looks toward the future with Recent and Developing Cancer Therapies.

Features
► In-depth discussions of different modes of cell death ► Introductory chapters provide detailed overviews of topics

Fields of interest
Radiotherapy; Cancer Research; Oncology

Target groups
Cancer researchers, medical and radiation oncologists, molecular biologists/therapists, pharmacologists, topicologists

Type of publication
Contributed volume

HUMANA PRESS

Due October 2007

2nd ed. 2007. Approx. 725 p. 64 illus., 5 in color. (Cancer Drug Discovery and Development) Hardcover

► * **€ (D) 128,35 | € (A) 131,95 | sFr 197,00**
ISBN 978-1-58829-527-9

E. Gouzoulis-Mayfrank, Universität zu Köln

Komorbidität Psychose und Sucht - Grundlagen und Praxis

Mit Manualen für die Psychoedukation und Verhaltenstherapie

Unter Mitarbeit von: T. Schnell,

Die vorliegende 2. Auflage bietet einen Überblick über die Thematik und berücksichtigt die umfangreiche neuerschienene Literatur. Das Manual für das Psychoedukative Gruppentraining aus der 1. Auflage wurde optimiert und um die Thematik Opiate ergänzt und wird hier in einer zusätzlichen Version für die Einzeltherapie vorgelegt (KomPAkt-Training). Darauf aufbauend wird ein zweites, ausführliches Manual für die kognitiv-behaviorale Gruppentherapie dargeboten (KomPASs-Training). KomPAkt und KomPASs fokussieren auf die Interaktionen zwischen Substanzkonsum und psychotischen Symptomen, auf Kognitionen, die für beide Störungen typisch sind, auf die Bedeutung von Stress als Risikofaktor für Rückfälle in Suchtverhalten und/oder in die Psychose und auf die Vermittlung von Kompetenzen, die im Umgang mit beiden Störungen benötigt werden. Die zu verwendenden Materialien und Handouts für beide Gruppentherapien liegen als Kopiervorlagen vor.

Pluspunkte
► Ausführliches Manual zur Verhaltenstherapie und zur Psychoedukation für Patienten mit der Doppeldiagnose Psychose und Sucht ► Darstellung der Handlungsprinzipien zur Integration von psychiatrischer Versorgung und Suchttherapie ► Konkrete therapeutische Empfehlungen

Fachgebiet
Psychiatrie

Zielgruppen
Psychiater und klinisch tätige Psychologen, Suchttherapeuten, Sozialarbeiter und Fachpersonal psychiatrisch-psychotherapeutischer Einrichtungen, Ärzte in der Weiterbildung zum Arzt für Psychiatrie und Psychotherapie

Kategorie
Fachbuch

STEINKOPFF DARMSTADT

Erscheint Juli 2007

Angezeigt in Highlights 03/2007

2., erw. Aufl. 2007. Etwa 190 S. Brosch.

► ca. **€ (D) 32,95 | € (A) 33,88 | sFr 50,50**
ISBN 978-3-7985-1768-4

F. L. Greene, **C. C. Compton**, **A. G. Fritz**, **J. Shah**, **D. P. Winchester** (Eds.)

AJCC Atlante per la stadiazione dei tumori

L'Atlante per la stadiazione dei tumori è una pubblicazione ufficiale dell'American Joint Commitee on Cancer (AJCC), riconosciuto leader internazionale nell'aggiornamento sulla stadiazione delle neoplasie. L' AJCC, con questo atlante riccamente illustrato, in formato tascabile e di facile consultazione, realizza compiutamente il proprio scopo di educare la comunità dei medici e degli epidemiolog.
Oltre 400 illustrazioni in bianco e nero, appositamente create per questo atlante, descrivono l'estensione anatomica del tumore nella sede primitiva (T), nei linfonodi regionali (N) e nelle metastasi a distanza (M) in varie sedi, compresi il distretto testa-collo, l'apparato digerente, il torace, l'apparato muscolo-scheletrico, i tessuti molli, la mammella, l'apparato urinario e l'apparato genitale. Ogni illustrazione fornisce precise e minuziose descrizioni anatomiche atte a chiarire le strutture anatomiche cruciali e a fornire al lettore una visione immediata della progressiva estensione della malattia.

Fields of interest
Oncologia chirurgica; Chirurgia; Oncologia

Target groups
Chirurgi, oncologi, patologi, specializzandi

Type of publication
Atlante

Pubblicazione prevista per il mese di giugno 2007

Edizione originale in inglese pubblicata da Springer New York, 2006

2007. Ca. 400 pagg. Brossura

► approx. * **€ (D) 56,54 | € (A) 58,12 | sFr 87,00**
ISBN 978-88-470-0693-5

F. L. Greene, C. C. Compton, A. G. Fritz, J. Shah, D. P. Winchester (Eds.)

AJCC Cancer Staging Illustrations in PowerPoint®

From the AJCC Cancer Staging Atlas

In the model of the popular AJCC Staging manual and AJCC Staging handbook with the EZTNM module, this new product combines the AJCC Staging Atlas with a CD containing all the illustrations from the Atlas. Having the figures from the Atlas available as PowerPoint® slides means that users can document the "why" and "how" of their staging decisions. users can also import figures into presentations for tumor boards, grand rounds, presentations, and journal articles/book chapters.

From the contents
1. Purposes and Principles of Staging.- Part I: Head ad Neck Sites.- 2. Head and Neck Sites: An Introduction.- 3. Lip and Oral Cavity.- 4. Phayrnx (Including Base of Tongue, Soft Palate, and Uvula).- 5. Larynx.- 6. Nasal Cavity and Paranasal Sinuses.- 7. Major Salivary Glands (Parotid, Submandibular, and Sublingual.- 8. Thyroid.- Part II Digestive System.- 9. Esophagus.- 10. Stomach.- 11. Small Intestine.- 12. Colon and Rectum.- 13. Anal Canal.- 14. Liver (Including Intrahepatic Bile Ducts).- 15. Gallbladder.- 16. Extrahepatic Bile Ducts.- 17. Ampulla of Vater.- 18. Exocrine Pancreas.- Part III: Thorax.- 19. Lung.- 20. Pleural Mesothelioma.- Part IV: Musculoskeletal Sites.- 21. Bone.- 22. Soft Tissue Sarcoma.- Part V: Skin.- 23. Carcinoma of the Skin (Excluding Eyelid, Vulva, and Penis).- 24. Melanoma of the Skin.- Part VI: Breast.- 25. Breast.- Part VII: Gynecologic Sites.- 26. Vulva.- 27. Vagina.- 28. Cervix Uteri.- 29. Corpus Uteri.- 30. Ovary.- 31. Fallopian Tube.

Fields of interest
Oncology; Surgical Oncology; Pathology

Target groups
Medical oncologists, radiation oncologists, oncologic and general surgeons, cancer registrars, clinical social workers, nurses

Type of publication
Atlas

Due June 2007

2007. IX, 352 p. With CD-ROM. Softcover

► * **€ (D) 71,64 | € (A) 73,65 | sFr 110,00**
ISBN 978-0-387-71842-2

Also available as CD-ROM

► ** **€ (D) 39,21 | € (A) 39,54 | sFr 57,00**
ISBN 978-0-387-71841-5

R. Greifinger, John Jay College of Criminal Justice, New York, NY, USA (Ed.)

Public Health Behind Bars

From Prisons to Communities

Projecting correctional facility-based health care into the community arena, Public Health Behind Bars: From Prisons to Communities examines the burden of illness in the growing prison population, and analyzes the considerable impact on public health as prisoners are released. More than forty practitioners, researchers, and scholars in correctional health, mental health, law, and public policy make a timely case for correctional health care that is humane for those incarcerated and beneficial to the communities they reenter. These authors offer affirmative recommendations toward that evolutionary step.

Features
► Prisoner reentry is a trendy topic in correctional health ► Contributors drawn from public health, correctional health

From the contents
Introduction: Thirty Years Since Estelle v. Gamble.- Looking Forward, Not Wayward.- Section I: Impact of Law and Public Policy on Correctional Populations.- Impact of Incarceration on Communities, Crime and Public Health.- Litigating for Better Medical Care.- Accommodating Disabilities in Jails and Prisons.- Growing Older - Special Issues Arising with Aging Prisoners.- International Public Health and Corrections - Models of care and Harm Minimization.- The Medicalization of Execution - Lethal Injection in the United States.- Section II: Communicable Disease. HIV and Viral Hepatitis in Corrections.- Prevention of Viral Hepatitis.- HIV prevention and Reentry.

Fields of interest
Public Health; Health Promotion and Disease Prevention; Criminology & Criminal Justice

Target groups
Professionals in correctional health, correctional medicine, community health, health promotion, disease prevention, public health, health care administrators, policymakers, trial lawyers, civil rights lawyers

Type of publication
Professional book

Due September 2007

2007. Approx. 500 p. Hardcover

► approx. * **€ (D) 81,59 | € (A) 83,88 | sFr 125,00**
ISBN 978-0-387-71694-7

V. Hausegger, Wien

Erfolgreiches Marketing für die Arztpraxis

Verständlich - zielgerichtet - leicht umsetzbar

Damit Sie im Praxisalltag die Zufriedenheit und die Bindung zu ihren Patienten verbessern, gewinnt Dienstleistungsmarketing zunehmend an Bedeutung. Professionelles Marketing für Ärzte ist dabei viel mehr als Werbung und Promotion und hat nichts mit „marktschreierischem Auftreten" zu tun. In diesem Buch erfahren Sie prägnant und übersichtlich das erforderliche Know-how für einen gelungenen Marketingprozess. Dem Leser wird rasch klar, warum das weit verbreitete Gerücht „Marketing für die Arztpraxis sei nicht erlaubt", nicht stimmen kann. Anhand von Praxis- und Fallbeispielen aus dem Beratungsalltag wird schnell verständlich, wie Praxismarketing funktioniert, welche Denkweisen und Instrumente notwendig sind, um sich im Wettbewerb künftig erfolgreich zu behaupten. Praxisnahe Tipps und übersichtliche Checklisten unterstützen Sie, Marketing erfolgreich in Ihren Arbeitsprozess zu integrieren und es somit zu einem selbstverständlichen Bestandteil Ihres beruflichen Alltages zu machen.

Pluspunkte
► Dienstleistungsmarketing für Ärzte und Gesundheitsberufe ► Schritt für Schritt für den Praxisalltag erklärt ► Praxisnahe Tipps und übersichtliche Checklisten

Fachgebiete
Medizin/Gesundheitswesen, allgemein; Gesundheitswesen; Marketing

Zielgruppen
Ärzte, Gesundheitsberufe,

Kategorie
Handbuch

SpringerWienNewYork

Erscheint Juni 2007

2007. Etwa 120 S. 20 Abb. (Edition Ärztewoche) Brosch.

► **€ (D) 24,95 | € (A) 24,95 | sFr 38,50**
ISBN 978-3-211-69774-0

F. G. Holz, **S. Schmitz-Valckenberg**, **A. C. Bird**, **R. F. Spaide** (Eds.)

Atlas of fundus autofluorescence imaging

During recent years, FAF (Fundus autofluorescence) imaging has been shown to be useful in various retinal diseases with regard to diagnostics, documentation of changes, identification of disease progression, and monitoring of novel therapies. Hereby, FAF imaging gives additional information above and beyond conventional imaging tools.This unique atlas provides a comprehensive and up-to-date overview of FAF imaging in retinal diseases. It also compares FAF findings with other imaging techniques such asfundus photograph, fluorescein- and ICG angiography as well as optical coherence tomography.General ophthalmologists as well as retina specialists will find this a very useful guide which illustrates typical FAF characteristics of various retinal diseases.

Features
► Fundus autofluorescence (FAF) imaging provides new information on diagnostics and novel therapies regarding retinal diseases ► Provides a comprehensive and up-to-date overview of FAF imaging in retinal diseases ► Lavishly illustrated atlas ► Written by renowned international experts

Fields of interest
Ophthalmology

Target groups
General ophthalmologists; retina specialists; researchers in the field of retinal imaging and retinal diseases; clinicians as well as residents-in-training

Type of publication
Monograph

Due August 2007

2007. Approx. 250 p. 200 illus. Hardcover

► approx. *** € (D) 85,55 | € (A) 87,95 | sFr 131,00**
ISBN 978-3-540-71993-9

K. Jauch, Chirurgische Klinik, Klinikum Großhadern, München; **W. Mutschler**, Chirurgische Klinik, Klinikum Innenstadt, München; **M. Wichmann** (Hrsg.)

Chirurgie - Basisweiterbildung

Das Buch für die Basisweiterbildung zu den chirurgischen Fachgebieten ist da! Als zuverlässiger Begleiter führt es Sie durch die Stationen Ihrer Weiterbildung im Common trunk: die chirurgische Ambulanz und Poliklinik - die stationäre Patientenversorgung - die Notfallaufnahme und den Schockraum - die chirurgische Intensivstation.Neben viszeral- und unfallchirurgischen Themen werden auch Gefäßchirurgie, Thoraxchirurgie, Plastische Chirurgie und Kinderchirurgie berücksichtigt. Erarbeiten Sie sich systematisch ein handlungsorientiertes, differenziertes chirurgisches Grundwissen und orientieren Sie sich gezielt über ausgewählte Eingriffe. Erfahrene Chirurgen haben 99 fundierte, praxisbezogene Kapitel für Sie verfasst – der ideale wöchentliche Lesestoff für zwei Jahre Common trunk.

Pluspunkte
► In 99 Schritten durch den Common trunk ► Fundierte, praxisnahe Kapitel, orientiert an der Weiterbildungsordnung ► Alle chirurgischen Teilgebiete sind berücksichtigt

Inhalt
Allgemeine Chirurgie - Schockraum - Notfallaufnahme und ausgewählte häufige Notfälle - Operative Intensivmedizin - Chirurgische Poliklinik und kleine ambulante Chirurgie - Stationäre Patientenversorgung und Klinikmanagement - Technische Verfahren und chirurgische Technik - Chirurgisches Lernen.

Fachgebiete
Chirurgie

Zielgruppen
Ärzte in der Basisweiterbildung zu den chirurgischen Facharztkompetenzen

Kategorie
Weiterführendes Lehrbuch

Erscheint Juli 2007
Angezeigt in Highlights 03/2006

2007. Etwa 715 S. 415 Abb. Geb.

► **€ (D) 99,95 | € (A) 102,75 | sFr 153,50**
ISBN 978-3-540-34004-1
Vorbestellpreis, gültig bis zum 31.10.2007
► **€ (D) 79,95 | € (A) 82,19 | sFr 122,50**

M. G. Jones, **P. Lympany**, Imperial College School of Medicine at the National Heart & Lung Institute, London, UK (Eds.)

Allergy Methods and Protocols

Allergy: Mechanisms and Protocols aims to assist the researcher in gaining insight into the molecular mechanisms involved in allergy by featuring an array of protocols. The protocols cover a range of disciplines including allergy, immunology, cell biology, and histology, and include methods to investigate the cellular response to allergens, cytokine profile, MHC restriction, and T regulatory cells.

From the contents
Understanding the Molecular Mechanisms of Allergy.- T Cell - Primary Culture from Peripheral Blood.- Production of T Cell Lines.- Production of Human T Cell Clones.- Mapping oo Human T-Cell Epitopes of Allergens.- Determining MHC Restriction of T Cell Response.- Short Term Culture of CD8 Cells And Intracellular Cytokine Staining.- Isolation, Flow Cytometric Analysis And Suppression Assay of CD4+CD25+ T Regulatory Cells.- Monocyte-Derived Dendritic Cells As Antigen Presenting Cells in T Cell Proliferation and Cytokine Production.- Ultrasensitive ELISA For Measurement of Human Cytokine Responses In Primary Culture.- Quantification of Human Chemokine Production in TLR-Stimulated And Antigen-Specific Recall Responses.- Standardisation of Allergen Extracts.- Immuno-Electrophoresis for The Characterisation of Allergen Extracts.- Conjugation of Haptens.- Monoclonal Antibodies.- Purification of Antibodies.- Collection of Air Samples to Quantify Exposure to Airborne Allergens.

Fields of interest
Allergology; Cell Biology; Immunology

Target groups
Allergists, immunologists, immunotherapists, cell biologists, histologists, molecular biologists

Type of publication
Contributed volume

HUMANA PRESS

Due October 2007

2007. Approx. 380 p. 40 illus., 1 in color. (Methods in Molecular Medicine, Volume 138) Hardcover

► * **€ (D) 106,95 | € (A) 109,95 | sFr 164,00**
ISBN 978-0-89603-896-7

M. G. Khan, University of Ottawa, Ottawa, Ontario, Canada

Rapid ECG Interpretation

With a step-by-step method for accurate interpretation of the ECG, this third edition of Rapid ECG Interpretation describes a systematic approach consistent with the changes in cardiology practice over the past decade. All diagnostic ECG criteria are given with relevant and instructive ECGs, providing a quick review or refresher for proficiency tests and for physicians preparing for the ECG section of the Cardiovascular Diseases Board Examination.

Features
► Contains over 320 ECGs and instructive illustrations, including 81 new ECG tracings ► Detailed depictions of ST segment abnormalities ► Clear and concise 11-step methods in user friendly synopsis format

Contents
Basic Concepts.- Step-by-Step Method for Accurate ECG Interpretation.- P Wave Abnormalities.- Bundle Branch Block.- ST Segment Abnormalities.- Q Wave Abnormalities.- Atrial and Ventricular Hypertrophy.- T Wave Abnormalities.- Electrical Axis and Fascicular Block.- Miscellaneous Conditions.- Arrhythmias.- ECG Board Asesssment Quiz.

Fields of interest
Cardiology; Internal Medicine; General Practice / Family Medicine

Target groups
Cardiologists, cardiology fellows, internists, residents in internal medicine, family practicioners, residents in family practice

Type of publication
Monograph

HUMANA PRESS

Due October 2007

3rd ed. 2007. Approx. 300 p. 324 illus. (Contemporary Cardiology) Hardcover

► * **€ (D) 66,29 | € (A) 68,15 | sFr 101,50**
ISBN 978-1-58829-979-6

C. Khare

Indian Medicinal Plants

An Illustrated Dictionary

In an easy to use dictionary style of A–Z presentation, this volume lists the taxonomy and medicinal usage of Indian plants. Also given are both traditional Indian and international synonyms along with details of the habitats of the plants.
Indian Medicinal Plants. An Illustrated Dictionary is aimed at bringing out an updated Acute Study Dictionary of plant sources of Indian medicine. The text is based on authentic treatises which are the outcome of scientific screening and critical evaluation by eminent scholars. Readers, if they so desire, can always refer back to a particular research paper cited in the original source.
The text is illustrated by over 550 full-color figures.

Contents
A-Z presentation of Indian medicinal plants including taxonomy, traditional and international synonyms, plant parts, applications and pharmacokinetic action.

Fields of interest
Complementary & Alternative Medicine; Pharmacy; Plant Sciences

Target groups
Holistic medicine specialists, natural healing specialists

Type of publication
Monograph

SPRINGER REFERENCE

Due June 2007

2007. Approx. 900 p. Hardcover

► * **€ (D) 213,95 | € (A) 219,95 | sFr 328,00**
ISBN 978-0-387-70637-5

2007. Online version

► ** **€ (D) 237,94 | € (A) 239,95 | sFr 344,50**
ISBN 978-0-387-70638-2

2007. Approx. 900 p. Print + Online

► * **€ (D) 266,43 | € (A) 273,90 | sFr 408,00**
ISBN 978-0-387-70640-5

B. Koletzko, Universität München (Hrsg.)

Kinder- und Jugendmedizin

Begründet von: G. v. Harnack

Koletzko - Pädiatrie: alles was ein Lehrbuch braucht!
Die ganze Pädiatrie in leicht erfassbaren Lehrtexten. Hier findet man Faktenwissen, wo ausreichend und tiefergehende Informationen, wo für das Verständnis notwendig.
Die harmonische Gestaltung in Layout und Didaktik bietet alles, was ein modernes Lehrbuch bieten sollte: kurze Einführungen für den ersten Überblick, wichtige Fakten in Merksätzen, Fallbeispiele für erste Eindrücke aus der Klinik, Kernaussagen nach jedem Unterkapitel und natürlich viele spannende farbige Abbildungen für das visuelle Lernen. Neu in der 13. Auflage: das integrierte Fallquiz für den problemorientierten Lernzugang. Die 24 authentischen, reich bebilderte Fälle live aus dem Alltag eines Pädiaters bieten mit vielen cleveren Fragen zu typischen Krankheitsbildern und ausführlichen Lösungstexten die ideale Ergänzung zum klassischen Lehrbuch für POL-Seminare und auch zur Vorbereitung der mündlichen Prüfung. Mit dem Koletzko macht die Pädiatrie erst richtig Spaß!

Pluspunkte
► Ausführlich aber nicht ausufernd: leicht erfassbare Texte für mehr Verständnis des Faches ► Starke inhaltliche Überarbeitung unter Mitarbeit studentischer Testleser ► Einheitliche und leicht verständliche Struktur und Didaktik ► Viele Tabellen und Übersichten verschaffen Überblick und erleichtern das Lernen ► Viele Abbildungen aus der Praxis geben Einblick in die Klinik der Erkrankungen

Fachgebiet
Pädiatrie

Zielgruppen
Studenten der Pädiatrie

Kategorie
Lehrbuch

Erscheint Juni 2007
Angezeigt in Highlights 01/2007

13., vollst. aktualisierte Aufl. 2007. Etwa 800 S. 453 Abb. überwiegend in Farbe. (Springer-Lehrbuch) Geb.

► **€ (D) 44,95 | € (A) 46,21 | sFr 69,00**
ISBN 978-3-540-48632-9

J. Lange, **B. Mölle**, **J. Girona**, **V. W. Fazio** (Eds.)

Surgical Proctology

"Surgical Proctology" presents proctology as a whole, from embryology and anatomy to the very differential diagnostic procedure. Each individual disease is covered in detail. The chapters are written by well-known authors with extensive experience who are active in research and in the development of innovative methods in their specialized field. Individual surgical steps are described precisely and comprehensively.

Features
► International editors present proctology as an entity encompassing embryology, anatomy, differential diagnostis, and surgical procedures ► Detailed and precise description of individual surgical steps with more than 350 four color drawings ► Cutting-edge treatment options based on clinical studies and sound basic research

Contents
Part I General Part: Basics.- Treatment Principles.- Proctological Diagnosis.- Part II Specialized Section: Haemorrhoids.- Primary Anal Fissures.- The Anorectal Abscess.- Anorectal Fistulas.- Anal Incontinence.- Obstipation.- Rectal Prolaps.- Anal and Rectal Tumours.- Dermatologic Diseases of the Anorectum.- Anal Pain.- Urological Measures and Coloproctical Procedures.- Index.

Fields of interest
Surgery; Proctology; Colorectal Surgery

Target groups
Specialists at all levels of experience working in the field of proctology

Type of publication
Monograph

Due August 2007

2007. Approx. 500 p. 640 sep. illus., mostly in color. Hardcover

► approx. *** € (D) 181,85 | € (A) 186,95 | sFr 278,50**
ISBN 978-3-540-71016-5

R. Larsen, Universitätsklinikum des Saarlandes, Homburg

Anästhesie und Intensivmedizin

für die Fachpflege

Über 100 000 verkaufte Exemplare sprechen für sich! Das Standardwerk für die Fachweiterbildung in der Anästhesie und Intensivpflege nun in der 7. Auflage komplett überarbeitet: übersichtlicher, prägnanter, praktischer. Neue Reanimationsrichtlinien und Infusionsleitlinien für Kinder für mehr Sicherheit. Arbeitsplatz-Checklisten für die perfekte Vorbereitung. Glossar zum Vertiefen. Die neuen Themen: Lebertransplantation; medikamentöse Prophylaxe von postoperativer Übelkeit und Erbrechen; hämodynamisches Monitoring durch PICCO. Nach jedem Kapitel Fragen zur Wissensüberprüfung und Tipps zum Nachschlagen und Weiterlesen (u. a. mit Internetadressen). Zum Lernen und Nachlesen: relevante Grundlagen, Vertiefungen und das spezielle Wissen der Anästhesie und Intensivmedizin praxisnah und anschaulich.

Pluspunkte
► 100.000 verkaufte Exemplare sprechen für sich. Das Original für die Weiterbildung Anästhesie und Intensivpflege in der Neuauflage: praxisnah und verständlich, zum Lernen und Nachschlagen ► Neu in der 7. Auflage: ► Arbeitsplatz und Patient: von der Vorbereitung bis zur Ausleitung ► Lebertransplantation ► Neue Reanimationsrichtlinien ► Glossar

Fachgebiete
Krankenpflege; Anästhesiologie; Intensivmedizin

Zielgruppen
Krankenpflegende auf Intensivstationen und in der Anäthesie; Teilnehmer der Fachweiterbildung Anästhesie und Intensivpflege; Studenten und PJler in der Anäthesie und auf Intensivstationen

Kategorie
Fachbuch

Erscheint August 2007

Nur gedruckte Ausgabe erhältlich

7. vollst. überarb. Aufl. 2007. Etwa 1210 S. 300 Abb. Geb.

► **€ (D) 44,95 | € (A) 46,21 | sFr 69,00**
ISBN 978-3-540-72273-1

P. Le Béguec, **H. Sieber** (Eds.)

Revision of loose femoral prostheses with a stem system based on the "press-fit"

A concept and its system of implants, a method and its results

The author of this multimedia work sets himself an ambitious goal: to allow a surgeon to achieve the revision of a prosthesis without too many difficulties (or too much apprehension!) with guaranteed results if he follows the proposed method step by step, and this, even if he is not very experienced in this discipline.To fulfil this purpose, the author provides a clear definition of the press-fit concept (principles and practical applications) and from there, he offers a logical and rigorous method for, first of all, planning the surgery, and then, performing it.The written text is also available as a computerized slide show, coming with a browsing system in order to make a pre-operative planning, which gives real pedagogic value to the whole of this work.

Contents
Part I: The concept of press-fit: a system of implants.- Preliminary Remarks.- Choice of a Concept and an implant.- The concept of press-fit. Principles characteristics of an implant with press-fit fixation.- The PFM-revision system.- Modular Femoral Prostheses for Revision.–Implants and Ancillary.- Conclusions of the first part.- Why make these choices?- Part II: Pre-operative planning.- Radiological analysis of the femur.- Determining a surgical strategy.- Making a pre-operative template.- Part III: Surgical technique.- General considerations.- Option 1: femoral flap.- Fixation in the diaphysis.- Option 2: endofemoral approach.- Proximal fixation.- Post-operative care.- Conclusions.- Asembly of the stem in two stages.- Removal of the pfm-revision stem.- Part IV: The results.- Patients and type of operation.- Clinical results.- Preoperative radiological results.- Postoperative radiological results.- The complications, limitations and indications of the concept of ^{3}press-fit fixation.

Fields of interest
Orthopedics; Surgical Orthopedics; Traumatic Surgery

Target groups
Researchers and professionals

Type of publication
Monograph

Available

2007. 180 p. With DVD. Softcover

► * **€ (D) 160,45 | € (A) 164,95 | sFr 246,00**
ISBN 978-2-287-39626-7

D. Le Nen, **W. Hu**, **J. Laulan** (Eds.)

Couverture des pertes de substances cutanées de la main et des doigts

Cet ouvrage n'est ni un précis ni une encyclopédie consacrée au traitement des pertes de substance cutanée de la main. Il existe actuellement d'excellents ouvrages qui peuvent servir de référence, à tout moment, au traitement de n'importe quel défect cutané, de la main…ou d'ailleurs.
Nous avons souhaité un tout autre éclairage de la prise en charge des traumatismes ouverts de la main, tout en respectant l'esprit de la collection «Approche pratique» dirigée par Christian Fontaine: un schéma de présentation simple, relativement stéréotypé, une iconographie riche et variée, des trucs et astuces, bref, un florilège de détails techniques et de réponses aux interrogations les plus courantes concernant la chirurgie des lambeaux de la main.
L'ouvrage présent est dédié à tous, orthopédistes ou plasticiens, chirurgiens de la main, jeunes ou moins jeunes, en fait aux hommes et aux femmes intéressés par la reconstruction tissulaire.

Fields of interest
Orthopédie; Chirurgie orthopédique

Target groups
Orthopédistes, chirurgiens, chirurgiens plasticiens

Type of publication
Monographie

A paraître juin 2007

2007. Env. 350 p. (Approche pratique en orthopédie-traumatologie) Broché

► approx. *** € (D) 86,21 | € (A) 88,63 | sFr 132,00**
ISBN 978-2-287-72095-6

D. LeRoith, National Institute of Health, Bethesda, MD, USA; **A. I. Vinik**, Eastern Virginia Medical School, Norfolk, VA, USA (Eds.)

Controversies in Treating Diabetes

Clinical and Research Aspects

Controversies in Treating Diabetes: Clinical and Research Aspects addresses diabetes controversies, specifically in the management of etiology and the disease itself. Chapters also examine the complications associated with diabetes. The volume covers commonly accepted forms of therapies and complications, as well as new and emerging advances and therapies and inadequacies in several standard treatments. Topics of emphasis include the metabolic syndrome, using insulin to treat Type 2, retinopathy, neuropathy, environmental stress, the diabetic foot, incretins, and the ADA and NCEP criteria for treating hyperlipidemia of diabetes. Comprehensive and timely, Controversies in Treating Diabetes: Clinical and Research Aspects is an essential reference for those treating and researching diabetes.

Contents
Pancreatic transplant; should they reserved for simultaneous renal transplants.- Islet cell transplants; how effect?- Metabolic Syndrome; Is there treatment that works?- Treatment of Obesity; the big and the small of it.- Treatment of Type 2; Does it prevent all complications?- Treatment of Type2 using insulin; When to introduce?- Retinopathy; Can it be prevented?- Neuropathy.- Intensive insulin therapy for critically ill patients.- Childhood diabetes explosion.- Environmental stress and dietary excess.- Unifying hypothesis of Diabetic Complications.- Diabetic Foot.- Coming of age for the Incretins.- Managing the ADA and NCEP criteria for treating hyperlipidemia of diabetes.- The polypill for Type 2 diabetes; Is the concept correct?- Quality of life for Diabetics.

Fields of interest
Endocrinology; Internal Medicine; Diabetes

Target groups
Endocrinologists, internists, research scientists

Type of publication
Contributed volume

HUMANA PRESS

Due October 2007

2007. Approx. 368 p. 38 illus. (Contemporary Endocrinology) Hardcover

► *** € (D) 112,30 | € (A) 115,45 | sFr 172,00**
ISBN 978-1-58829-708-2

M. Liehn, **I. Middelanis-Neumann**, Hamburg; **L. Steinmüller**, Allgemeines Krankenhaus Eilbek, Hamburg; **J. Döhler**, Klinikum Plau am See (Hrsg.)

OP-Handbuch

Grundlagen, Instrumentarium, OP-Ablauf

Ein Muss für Pflegende im OP - Das OP-Handbuch in neuer Auflage. Hier finden OP-Fachkräfte alle grundlegenden Informationen zu Aufgaben des Pflegepersonals im OP; Techniken, Lagerungen, Vorbereitung und Nachsorge; Instrumentierkunde und Instrumentieren; Nahtmaterial und Geräten; den häufigsten Operationen und spezielle Operationsverläufen; Pflegedokumentation.
Alle Eingriffe sind nachvollziehbar beschrieben und durch vierfarbige Abbildungen ergänzt. Die neuen Kapitel in der 4. Auflage: Augen-Operationen und Verbrennungschirurgie.
Ein Handbuch von Praktikern für Praktiker: Das praxisbezogene Lehrbuch für Fachpflegekräfte im OP-Dienst, OTAs, Medizinstudenten im Praktischen Jahr - bietet den anerkannten Standard für die Fachweiterbildung im Operationsdienst.

Pluspunkte
► Das erforderliche Grundlagen- und Hintergrundwissen zu allen OP-Verläufen, zur Instrumentierung und Pflegedokumentation
► Klare Struktur ► Verständlich geschrieben
► Einheitliche didaktische Darstellung ► Neu: Augenchirurgie und Verbrennungschirurgie
► Plus: 820 Abbildungen

Inhalt
Grundlagen.- Allgemeinchirurgie und Viszeralchirurgie - Traumatologie und orthopädische Chirurgie - Gefäßchirurgie - Shunt- und Portsysteme - Thoraxchirurgie - Kardiochirurgie - Gynäkologie - Urologie - Neurochirurgie - Mund-, Kiefer- und Gesichts-Chirurgie - HNO-Chirurgie - Kinderchirurgie - Augenchirurgie - Verbrennungschirurgie.

Fachgebiete
Krankenpflege; Chirurgie

Zielgruppen
Pflegepersonal im OP, Fachweiterbildungsteilnehmer OP-Pflege, OTAs, Medizinstudenten im praktischen Jahr (PJler), Assistenzärzte in der Chirurgie

Kategorie
Fachbuch

Erscheint August 2007

4., erw. u. korr. Aufl. 2007. Etwa 680 S. 820 Abb. Geb.

► **€ (D) 44,95 | € (A) 46,21 | sFr 69,00**
ISBN 978-3-540-72269-4

S. Loue, Case Western Reserve University, Cleveland, OH, USA; **E. C. Pike**, AIDS Taskforce of Greater Cleveland, Cleveland, OH, USA (Eds.)

Case Studies in Ethics and HIV Research

There has been a consistent interest in ethical issues arising in the context of HIV research. Ongoing international and multi-site studies and the continuing search for an HIV vaccine continue to prompt examination of how this research is conducted, how participants are engaged in the studies, and the obligations of the researchers to individual participants and their communities during the course of and following the conclusion of the research.
Each chapter is authored primarily by one of the editors (secondarily by the other) and is accompanied by one to two case studies. Each case study has been authored by an HIV/AIDS researcher with experience in the subject matter of the chapter. The case studies will focus on an actual ethical dilemma encountered by the researcher, with suggestions on how it can be resolved. Each chapter addresses relevant issues and emphasizes particular ethical principles.

Features
► Authorship by an HIV researcher (S. Loue) and a community leader in HIV policy, advocacy, and service provision (E. Pike), which will provide readers with a unique perspective on the conduct of HIV research ► Case Studies provided by HIV researchers, which will allow readers to understand better how ethical issues arise in HIV research, how to identify such issues, and the range of possibilities for their resolution

Fields of interest
Public Health; Health Promotion and Disease Prevention; Epidemiology

Target groups
HIV researchers, health care and ancillary care providers that assist in HIV research; graduate level courses in public health, epidemiology, psychology, anthropology and social work

Type of publication
Graduate/Advanced undergraduate textbook

Due October 2007

2007. Approx. 448 p. Hardcover

► * **€ (D) 50,24 | € (A) 51,65 | sFr 77,00**
ISBN 978-0-387-71361-8

F. I. Marcus, University of Arizona, Tucson, AZ, USA; **A. Nava**, **G. Thiene**, University of Padua, Italy (Eds.)

Arrhythmogenic right ventricular cardiomyopathy/ dysplasia

Recent Advances

This book covers all aspects (biological, pathological, genetics, clinical and therapeutical) of arrhythmogenic right ventricular cardiomyopathy/dysplasia, a recent cardiomyopathy which represents a very high risk of sudden death in the young and in the athletes. The monograph is gathering the results of 5-year research program on ARVC/D supported by grants of both the European Commission and the NIH, which allowed the discovery of 5 disease-causing genes, thus opening new avenues for the early identification of affected patients and for sudden death prevention.
A panel of top scientists, both European and Americans, contribute to the monograph, which will be an essential reference for professionals and residents in cardiology, radiology, human genetics, and sport medicine.

Features
► Covers all aspects of arrhythmogenic right ventricular cardiomyopathy/dysplasia ► Gathers the results of a research program promoted by European Commission and NIH, focused on early identification of affected patients and for sudden death prevention in the young and the athletes ► Essential reference for professionals and residents in cardiology, radiology, human genetics, and sport medicine

Fields of interest
Cardiology; Human Genetics; Molecular Medicine

Target groups
Scientists, graduate students, specialists in cardiology and sport medicine

Type of publication
Monograph

Due June 2007

2007. XII, 216 p. Hardcover

► * **€ (D) 139,05 | € (A) 142,95 | sFr 213,00**
ISBN 978-88-470-0489-4

D. McQueen, Centers for Disease Control, Atlanta, GA, USA; **C. Jones**, IUHPE, Saint-Denis, France (Eds.)

Global Perspectives on Health Promotion Effectiveness

Global Perspectives on Health Promotion Effectiveness is intended to be a critical reflection on the state of health promotion effectiveness in practice around the world. It examines the meaning of health promotion from regional perspectives, and explores regional strengths and weaknesses in demonstrating effectiveness. The book goes on to consider issues in public health such as tobacco, mental health, obesity, urbanization, war, and social determinants in order to assess the role of effectiveness, and to examine methodologies for demonstrating effectiveness. Finally, the book looks at questions over the effectiveness of health promotion – the debate about the relationship between evidence, impact, and outcomes. The principal difficulty for the field of health promotion is how to show that it has a value – and to find an appropriate device that will enable valuation of its practices.

Features
► Global scope; contributors drawn from all over the world ► Associated with the IUHPE organization ► Associated with the CDC

From the contents
Preface.- Foreword.- Section I: The Global Programme on Health Promotion Effectiveness.- Section II: Reports from the field.- Section III: Recent fields of practice that challenge effectiveness assessment of health promotion.- Section IV: Global debates about effectiveness of health promotion.- Annex: Global Programme on Health Promotion Effectivenss: description and list of partners.- Index.

Fields of interest
Health Promotion and Disease Prevention

Target groups
Public health practitioners implementing health promotion campaigns, researchers and graduate students in public health, health promotion

Type of publication
Handbook

Due July 2007

2007. Approx. 718 p. 54 illus. Hardcover

► * **€ (D) 58,80 | € (A) 60,45 | sFr 90,50**
ISBN 978-0-387-70973-4

L. B. Mongero, New York Presbyterian Hospital, New York, NY, USA; **J. R. Beck**, University Hospital of Columbia and Cornell, New York, NY, USA (Eds.)

On Bypass

Advanced Perfusion Techniques

With the introduction of cardiac surgery more than five decades ago and the use of the heart-lung machine for open heart surgical procedures granting the surgeon unlimited time in which to operate inside the heart, a complex task has been given to the Perfusionist. With a pairing of a perfusionist and a surgeon for each chapter, On Bypass: Advanced Perfusion Techniques is an essential collection of techniques and protocols to aid in the difficult and immediate decision making in the operating room.

Contents
The Engineering of Cardiopulmonary Bypass.- Pediatric Perfusion Techniques for Complex Congenital Surgery.- Separation from Cardiopumonary Bypass: Hemodynamic Considerations.- Prime Solutions for extracorporeal Circulation.- Blood Flow During Cardiopumonary Bypass.- The Inflammatory Response to Cardiopulmonary Bypass.- Minimally Invasive Perfusion Techniques.- Cannulation and Clinical Concerns for CPB Access.- Ultrafiltration in Cardiac Surgery.- Echocardiography and Cardiopulmonary Bypass.- Surgical Approach to Aortic Surgery and Perfusion Techniques.- ECMO to Artificial Lungs: Advances in Long-Term Pulmonary Support.- Policies and Procedures.

Fields of interest
Cardiac Surgery

Target groups
Perfusionists, anesthesiologists, cardiac (thoracic) surgeons, and cardiologists

Type of publication
Contributed volume

HUMANA PRESS

Due October 2007

2007. Approx. 460 p. 173 illus. (Current Cardiac Surgery) Hardcover

► * **€ (D) 106,95 | € (A) 109,95 | sFr 164,00**
ISBN 978-1-58829-636-8

G. Moser (Hrsg.)

Psychosomatik in der Gastroenterologie

Psychosomatik spielt in der Gastroenterologie eine bisher zu wenig beachtete Rolle. Ausgehend vom Begriff des Bauchhirns (Brain-Gut-Axis) werden die psychosomatischen Aspekte sämtlicher Erkrankungen des Magen-Darm-Traktes ausführlich besprochen.
Die Bedeutung der Arzt-Patient-Beziehung wird praktisch vermittelt und durch Beiträge von Betroffenen ergänzt. In weiterer Folge werden psychische Aspekte bei der endoskopischen Untersuchung und anderen diagnostischen Verfahren vorgestellt. Die psychopharmakologische Therapie psychischer Störungen im gastroenterologischen Alltag wird in einem eigenen Kapitel abgehandelt und Modelle einer integrierten psychosomatischen Versorgung beispielhaft dargestellt. Ein Verzeichnis über Selbsthilfegruppen für gastroenterologische Erkrankungen ergänzt dieses Nachschlagwerk für ExpertInnen.

Pluspunkte
► Psychosomatik - aktuelle Entwicklungen in der Gastroenterologie ► Evidenzbasiert ► Überblick zu allen Erkrankungen des Magen-Darm-Trakts

Fachgebiete
Innere Medizin; Gastroenterologie; Psychotherapie

Zielgruppen
Internisten, Praktische Ärzte, Psychologen, Psychotherapeuten, Studenten der Medizin

Kategorie
Monographie

SpringerWienNewYork

Erscheint September 2007

2007. Etwa 300 S. Geb.

► ca. **€ (D) 59,95 | € (A) 59,95 | sFr 92,00**
ISBN 978-3-211-69158-8

M. Namer, **D. Serin**, **M. Spielmann**, **M. Héry**, **J. Gligorov** (Eds.)

Compte rendu du cours supérieur francophone de cancérologie, Saint-Paul-de-Vence 2007

Le 10e Cours francophone supérieur sur le cancer du sein s'est déroulé du 18 au 20 Janvier 2007 à l'Hôtel Mas d'Artigny à Saint-Paul-de-Vence. Durant les deux premières journées, toutes les étapes importantes de la prise en charge des cancers du sein ont été déclinées. L'analyse du risque de voir survenir un cancer du sein a été explorée dans sa diversité suivie par les résultats du dépistage organisé et les problèmes du diagnostic. Les traitements locorégionaux ont précédé les traitements adjuvants sans oublier les patientes dont la tumeur présentait une hyperexpression de HER2. Une session a été consacrée aux cancers métastatiques et une autre aux personnes âgées. Comme à chaque cours, nous nous sommes penchés sur l'avenir en dissertant sur la classification moléculaire et sur le passé avec la très belle conférence du Pr David Khayat sur le bilan du Plan Cancer.

Contents
Evaluation et prise en charge du risque de développer un cancer du sein.- Le bilan pré thérapeutique.- La prise en charge locorégionale.- Le cancer du sein métastatique.- Le rôle de l'état.- classification moléculaire des cancers du sein.- Les cancers du sein de la femme âgée de plus de 70 ans.- Les traitements adjuvants: le choix.- Les tumeurs surexprimant her20.- recommandations de saint-paul-de-vence 2007.

Fields of interest
Oncologie; Imagerie/Radiologie; Chirurgie en oncologie

Target groups
Oncologues médicaux, radiologues, chirurgiens

Type of publication
Manuel de compte rendus

A paraître juin 2007

2007. Env. 500 p. Broché

► * **€ (D) 29,41 | € (A) 30,24 | sFr 45,50**
ISBN 978-2-287-71477-1

V. Nargund, **D. Raghavan**, **H. M. Sandler** (Eds.)

Urological Oncology

This simple, brief and succinct guide covers all the salient features of management of genito-urinary (GU) cancers and contains all the important principles of evidence-based management of GU cancers.
With background information on etiology, epidemiology and pathology including TNM classification for each tumor, the main emphasis is on clinical presentation, investigations and management strategies. The book includes chapters on the fundamental principles behind chemotherapy, radiotherapy, gene therapy, indications for surgery and complications. A key feature is an easy-to-look-up reference guide to step-by-step management strategies and drug dosages.
This book will be of great value to residents, specialists, nurse practitioners, and medical secretaries in Urology, Radiotherapy, Oncology and Palliative Medicine as related to urological cancers.

Features
► An easy-to-look-up reference guide to step-by-step management strategies and drug dosages designed mainly for the trainee doctor in an emergency situation ► Practical guide and not theoretical discourse ► Illustrations particularly pathology and X-ray, CT and ultrasound demonstrations for easy understanding of the disease ► Easy to carry in a pocket, it gives up-to-date information in a concise form with references

Fields of interest
Oncology; Urology/Andrology; Imaging / Radiology

Target groups
Residents, specialists, nurse practitioners, and medical secretaries in Urology, Radiotherapy, Oncology and Palliative Medicine

Type of publication
Professional book

Due November 2007

2007. Approx. 528 p. 75 illus., 35 in color. Hardcover

► * **€ (D) 67,36 | € (A) 69,25 | sFr 103,50**
ISBN 978-1-84628-387-1

D. T. Nguyen, **L. W. Diamond**, **R. C. Braylan**, University of Florida College of Medicine, Gainesville, FL, USA

Flow Cytometry in Hematopathology

A Visual Approach to Data Analysis and Interpretation

The second edition of this volume reflects the recent advances in the FCM analysis of hematopoietic disorders. The chapters have been revised to incorporate new text and figures. A companion CD containing case studies is also included.

Features
► Reflects the recent advances in the FCM analysis of hematopoietic disorders ► Revised chapters incorporate new text and figures ► A companion CD containing case studies is included

Contents
1. Approach to Flow Cytometry - General Considerations.- 2. FCM immunophenotyping and DNA analysis - Practical aspects that can affect data analysis and interpretation.- 3. FCM data analysis on nearly homogeneous samples.- 4. FCM data analysis on heterogeneous specimens.- 5. FCM interpretation and reporting.- Suggested Reading.- Appendix.

Fields of interest
Pathology; Hematology; Laboratory Medicine

Target groups
Hematopathologists, hematologists, pathologists, laboratory technicians

Type of publication
Contributed volume

HUMANA PRESS

Due September 2007

2nd ed. 2007. Approx. 250 p. 274 illus. 9 in color (Current Clinical Pathology) Hardcover

► * **€ (D) 112,30 | € (A) 115,45 | sFr 172,00**
ISBN 978-1-58829-855-3

M. D. Orfei, **C. Caltagirone**, **G. Spalletta**, IRCCS Fondazione Santa Lucia, Roma, Italia

I disturbi della consapevolezza nelle malattie neuropsichiatriche

Il presente volume si propone di delineare l'insieme delle attuali conoscenze in campo internazionale sulla consapevolezza di malattia in diverse condizioni neuropsichiatriche (emiplegia conseguente a un danno cerebrale, psicosi, demenze e disturbi dell'umore), con particolare riferimento all'anosognosia e all'insight. Il confronto tra diverse concettualizzazioni e la varietà di manifestazioni cliniche dà luogo ad un quadro molto articolato che necessita di un approccio multidimensionale, specie per quanto riguarda il momento diagnostico. A tal fine, gli autori propongono un'integrazione di diversi contributi sul piano patogenetico, basati su evidenze neuroanatomiche e supportati dalle più recenti tecniche di neuroimmagini. Inoltre, viene suggerito l'utilizzo di una batteria diagnostica complessa in grado di analizzare i diversi aspetti del fenomeno, e di distinguerlo dal meccanismo psicologico difensivo della negazione.

Contents
Parte 1: Introduzione. Auto-consapevolezza e insight. Anosognosia nello stroke e nel danno cerebrale di origine traumatica. Anosognosia vs. negazione: manifestazioni comportamentali. Demenze. Conclusioni.- Parte 2: Questionari diagnostici: Questionari per la consapevolezza del deficit senso-motorio conseguente a ictus o danno cerebrale di origine traumatica. Questionari per la consapevolezza di disturbi/cambiamenti comportamentali conseguenti a ictus o danno cerebrale. Questionari per la negazione di malattie nello stroke e/o in altre patologie. Questionari per la consapevolezza di malattia nelle demenze. Questionari per la consapevolezza di malattia nella schizofrenia e nelle psicosi.

Fields of interest
Psichiatria; Geriatria/gerontologia; Neurologia

Target groups
Psicologi, neuropsichiatri, neuropsicologi

Type of publication
Monografia

Pubblicazione prevista per il mese di giugno 2007

2007. Ca. 110 pagg. (Metodologie Riabilitative in Logopedia, Volume 15) Brossura

► approx. * **€ (D) 29,79 | € (A) 30,62 | sFr 46,00**
ISBN 978-88-470-0656-0

H. Palmtag, Städtisches Krankenhaus, Sindelfingen; **M. Goepel**, Klinikum Niederberg, Velbert; **H. Heidler**, Allgemeines Krankenhaus, Linz (Hrsg.)

Urodynamik

Fort- und Weiterbildungskommission der Deutschen Urologen
Arbeitskreis Urologische Funktionsdiagnostik und Urologie der Frau

Urodynamik leicht gemacht! Unmöglich? Dieses Buch macht´s möglich! Vertrauen Sie den Experten aus dem Arbeitskreis „Urologische Funktionsdiagnostik und Urologie der Frau“ der DGU. Detaillierte Darstellung der Grundlagen und Anwendungsmöglichkeiten: Indikation, - Durchführung der Untersuchung Step by Step, Befunde (mit zahlreichen Beispielen aus der Praxis). So wird die schwierige Materie anschaulich und verständlich! Alles drin: Spezielle Urodynamik der Frau, des Mannes, des Kindes und des alten Menschen und bei Patienten mit neurogener Blasenfunktionsstörung. Die Neuauflage des bewährten Standardwerks wurde komplett überarbeitet und aktualisiert: noch besser –für eine gute Diagnostik zum Wohle Ihrer Patienten.

Pluspunkte
► Das einzige deutschsprachige Standardwerk zum Thema ► Unter Mitwirkung aller Mitgliedern des AK „Urologische Funktionsdiagnostik und Urologie der Frau“ der DGU ► Gezieltes Eingehen auf unterschiedliche Patientengruppen ► Mit konkreten Beispielen zur Befundauswertung

Fachgebiete
Urologie/Andrologie; Gynäkologie; Neurologie

Zielgruppen
Urologen, Gynäkologen in Klinik und Praxis

Kategorie
Fachbuch

J. Papadopoulos, Arnold and Marie Schwartz College of Pharmacy and Health Sciences, Brooklyn, NY, USA (Ed.)

Pocket Guide to Critical Care Pharmacotherapy

Because critical care medicine is a cutting-edge medical field that is highly evidence-based, studies are continuously published altering the approach to patient-care. This creates a challenge for many clinicians to keep abreast of the latest data. This book serves as a pocket bedside medical reference, providing the unique element of supplying a step-by-step design that will guide clinicians in giving their patient optimal, evidence-based care. The book provides practical points based on both real patient-care experience and review of current medical literature with the aim of providing guidance to all critical care clinicians. By covering the most common ailments observed in critically ill medical patients and using an algorithmic, easy-to-follow, step-by-step approach while focusing on pharmacotherapeutics with a greater in-depth review of optimal pharmacological principles, clinicians with varying degrees of training will be able to follow.

Features
► A pocket bedside medical reference
► Easy-to-follow, step-by-step approach
► Offers practical points based on both real patient-care experience and review of current medical literature

Fields of interest
Intensive / Critical Care Medicine; Pharmacy; Emergency Medicine

Target groups
Critical care doctors, ICU doctors, physicians, pharmacists, physician assistants, and nurse practitioners as well as fellows, residents, interns, and students of all the above disciplines

Type of publication
Handbook

H. Plötz, Klinikum St.Elisabeth, Straubing

Kleine Arzneimittellehre für Fachberufe im Gesundheitswesen

Wissen, das wirkt!
Wie wirkt ein Arzneimittel? Hat es Nebenwirkungen? Mit welchen Medikamenten verträgt es sich, mit welchen nicht? Was muss bei der Verabreichung beachtet werden? 1000 Fragen stellen sich beim verantwortungsvollen Umgang mit Zäpfchen, Pillen, Puder, Salben. Dieses ideale, weil übersichtliche und verständliche, Begleitbuch für das Fach Arzneimittellehre gibt Antworten auf diese Fragen. Es stellt Herkunft, Wirkungsweise und die korrekte Verabreichung von Arzneimittlen vor; bei Erwachsenen und Kindern. Das kompakte Lern- und Nachschlagewerk zur Verabreichung, Wirkung, unerwünschten Wirkung und Zubereitung von Arzneimitteln, ideal für die Ausbildung in allen Pflegefachberufen, im Rettungsdienst, zur PTA und PKA (Pharmazeutisch Kaufmännische Angestellte). Die wichtigsten und häufigsten Medikamente. Notfallmedikamente und Medikamente im Rettungsdienst. Glossar mit wichtigen Fachbegriffen und Abkürzungen.-Vergiftungszentralen.-Übungsfragen zur Wissensüberprüfung.

Pluspunkte
► Zum schnellen Nachschlagen das notwendige Wissen zu den wichtigsten Arzneien ► Neues Kapitel: Enterale und Parenterale Ernährung

Fachgebiete
Krankenpflege; Pharmakologie/Toxikologie

Zielgruppen
Auszubildende in Gesundheitsfachberufen, im Rettungsdienst und zur PTA, PKA (Pharmazeutisch Kaufmännischesn Angestellten) und zur Medizinischen Fachangestellten (Arzthelferin)

Kategorie
Fachbuch

HUMANA PRESS

Erscheint September 2007

2., überarb. Aufl. 2007. Etwa 280 S. 180 Abb. Geb.

► **€ (D) 99,95 | € (A) 102,75 | sFr 153,50**
ISBN 978-3-540-72505-3

Due October 2007

2007. Approx. 250 p. Hardcover

► approx. *** € (D) 32,96 | € (A) 33,88 | sFr 50,50**
ISBN 978-1-934115-45-9

Erscheint August 2007

5., aktualisierte u. erw. Aufl. 2007. Etwa 480 S. Brosch.

► **€ (D) 19,95 | € (A) 20,50 | sFr 31,00**
ISBN 978-3-540-72300-4

R. Prayson, Cleveland Clinic Foundation, Cleveland, OH, USA

Neuropathology Review

The scope of neuropathology continues to expand and the ever-increasing amount of information to assimilate and master can be daunting. Neuropathology Review, Second Edition summarizes in simple outline form the essentials of neuropathology.

Features
► Updated to reflect the newest information and ideas in this constantly changing field ► Includes many new questions and answers ► Provided with a CD containing color versions of all the book's images

Contents
Normal histology.- Vascular lesions.- Tumors.- Trauma.- Congenital malformations, perinatal disease and phacomatoses.- Demyelinating and dysmyelinating diseases.- Metabolic and toxic diseases.- Degenerative disease.- Infection.- Skeletal muscle.- Peripheral nerve.- Figures with questions.- Answers to figures with questions.- Written self-assessment questions.- Answers to written self-assessment questions.

Fields of interest
Neurology; Pathology; Neurosurgery

Target groups
Neuropathology residents and fellows, pathology residents, neurology residents, medical library students

Type of publication
Monograph

E. Quaia, Università di Trieste, Ospedale di Cattinara, Italia (Ed.)

Mezzi di contrasto in ecografia

Applicazioni addominali

Il volume presenta una completa analisi delle applicazioni dei mezzi di contrasto ecografici a livello addominale, ed è principalmente diretto agli istituti di scienza delle immagini ed agli ospedali dove vengono correntemtne utilizzati i mezzi di contrasto ecografici nella pratica clinica. Peraltro, il libro si rivolge anche a medici e studiosi non ancora coinvolti nelle applicazioni cliniche dei mezzi di contrasto ecografici ma che desiderano avere un quadro generale delle possibili applicazioni a livello addominale.

Fields of interest
Imaging/radiologia; Radiologia diagnostica; Ultrasuoni

Target groups
Medici e studiosi

Type of publication
Testo specializzato/specialistico

C. Ratto, **G. B. Doglietto**, Catholic University, Rome, Italy (Eds.)

Fecal Incontinence

Diagnosis and Treatment

Foreword by: A. C. Lowry, **L. Pahlman**, **G. Romano**

Fecal incontinence is a frequent, distressing condition that has a devastating impact on patients' lives. However, patients are typically embarrassed and reluctant to acknowledge this disability, so they relinquish the possibility of being cured and remain socially isolated. Since fecal incontinence may result from various pathophysiological situations, an accurate diagnostic work-up of each patient is fundamental. Today, a wide range of therapeutic options is available, but making the correct choice is pivotal to the successful management of this condition. This book is aimed at all physicians involved in the assessment and treatment of fecal incontinence. Its main purpose is to review the latest advances in the epidemiologic, socio-economic, psychologic, diagnostic, and therapeutic aspects of fecal incontinence, in order to establish guidelines for effective treatment.

Features
► Comprehensive reference to the latest advances in the epidemiologic, socio-economic, physiologic, diagnostic, and therapeutic aspects of fecal incontinence

Fields of interest
Colorectal Surgery; Gastroenterology; Pathology

Target groups
Physicians

Type of publication
Professional book

HUMANA PRESS

Due October 2007

2nd ed. 2007. Approx. 250 p. 171 illus. Hardcover

► * **€ (D) 69,50 | € (A) 71,45 | sFr 106,50**
ISBN 978-1-58829-895-9

Pubblicazione prevista per il mese di settembre 2007

2007. Ca. 255 pagg. Cartonato

► approx. * **€ (D) 123,41 | € (A) 126,87 | sFr 189,00**
ISBN 978-88-470-0616-4

Due June 2007

2007. XVI, 416 pagg. Hardcover

► * **€ (D) 181,85 | € (A) 186,95 | sFr 278,50**
ISBN 978-88-470-0637-9

H. Rothenhäusler, Universität Graz; **K. Täschner**, Zentrum für Seelische Gesundheit Stuttgart

Kompendium Praktische Psychiatrie

Das kurz gefasste Lehrbuch „Kompendium Praktische Psychiatrie „ stellt eine übersichtlich gegliederte, tabellarisch aufbereitete und schlagwortartig präzisierte Einführung in die Psychiatrie dar. Einer ausführlichen Darstellung des Arbeitsfelds der Psychiatrie, der psychopathologischen Befunderhebung, der diagnostischen und therapeutischen Prinzipien folgt eine prägnante Beschreibung der psychiatrischen Krankheitsbilder. Darüber hinaus werden spezielle Aspekte der Notfallpsychiatrie, der Kinder- und Jugendpsychiatrie sowie der Konsiliarpsychiatrie behandelt. Von besonderem Interesse ist, dass das Kompendium die österreichische Perspektive gleichberechtigt mitberücksichtigt. Dieses handliche Kompendium vermittelt nicht nur für Medizinstudierende das für die Prüfungen im Fach Psychiatrie unbedingt erforderliche Grundwissen, sondern ist gleichzeitig auch ein informativer Leitfaden für Ärzte in psychiatrischer Praxis und Klinik.

Pluspunkte
► Stellt eine übersichtlich gegliederte, tabellarisch aufbereitete und schlagwortartig präzisierte Einführung in die Psychiatrie dar ► Handliches Tachenkittelformat zum raschen Nachschlagen am Krankenbett ► Vermittelt prägnant für Medizinstudierende das für die Prüfungen im Fach Psychiatrie unbedingt erforderliche Grundwissen

Fachgebiete
Psychiatrie; Psychopharmakologie; Psychotherapie

Zielgruppen
Studenten, Ärzte, Psychologen, Pflegepersonal

Kategorie
Lehrbuch

SpringerWienNewYork

Erscheint Juli 2007

Angezeigt in Highlights 01/2007

2007. Etwa 500. S. Brosch.

► ca. **€ (D) 34,95 | € (A) 34,95 | sFr 53,50**
ISBN 978-3-211-48641-2

Y. Rouxeville, **Y. Meas**, **J. Bossy** (Eds.)

Auriculothérapie

L'Acupuncture auriculaire selon des élèves directs du Paul Nogier

Contents
Préface.- Introduction.- Place de l'auriculothérapie dans la médecine.- Anatomie de surface, embryologie et innervation de l'auricule humaine.- L'oreille dans l'histoire, les mythes et les traditions.- Morphologie de l'oreille et nomenclature.- Principales données scientifiques pouvant expliquer l'auriculothérapie.- Essais Cliniques Randomisés et Méta Analyses en auriculothérapie.- Particularités du «point d'oreille».- Modes d'action de l'auriculothérapie.- Le diagnostic en auriculothérapie.- Cartographies d'oreilles, d'après les travaux du Dr Paul Nogier.- Indications et traitements en auriculothérapie.- Le terrain réactionnel et les obstacles, en auriculothérapie.- Situation de l'auriculopuncture en Chine.- L'auriculothérapie dans une consultation hospitalière.- L'auriculothérapie dans la douleur et l'analgésie.- L'auriculothérapie et les syndromes douloureux posturaux.- Cas cliniques divers.- Cas cliniques dans la douleur aiguë.- Cas cliniques dans la douleur chronique.

Fields of interest
Paramédecine/Médecine alternative; Acupuncture;

Target groups
Auriculothérapeutes, acupuncteurs, homéopathes, médecins du sport, médecins de la douleur

Type of publication
Monographie

A paraître juin 2007

2007. Env. 200 p. (Médecines d'Asie: Savoirs et Pratique) Broché

► approx. * **€ (D) 50,71 | € (A) 52,13 | sFr 78,00**
ISBN 978-2-287-46613-7

H. Rübben, Essen (Hrsg.)

Uroonkologie

Die neue „Uroonkologie" ist noch besser geworden und bietet dem Leser alles, was er von einem modernen Lehrbuch erwarten darf. Sie ist vollständig und umfassend: alle erforderlichen Grundlagen für eine erfolgreiche Therapie (von Molekularbiologie über Studienplanung bis zu alternativen Therapieansätzen) sind berücksichtigt; der Schwerpunkt liegt auf einer ausführlichen Beschreibung von Diagnostik und Therapie aller urologischen Tumorerkrankungen. Aktuell: sämtliche Kapitel wurden intensiv überarbeitet bzw. neu verfasst und sind somit auf dem letzten Stand; alle wichtigen Studien wurden berücksichtigt. Praxisnah: eine klare Sprache, viele Tabellen und instruktive Abbildungen erleichtern die Wissensaufnahme; zahlreiche Therapieschemata sorgen für eine schnelle Orientierung und ermöglichen die direkte Umsetzung in die tägliche Praxis.
Neu in der 4. Auflage: Rehabilitation bei Tumorpatienten; Notfälle in der Uroonkologie; Grundlagen der Palliativmedizin; Uroonkologie beim älteren Patienten.

Pluspunkte
► Einziges Lehrbuch zum Thema auf dem deutschsprachigen Markt ► Ausführliche Darstellung aller Aspekte der uroonkologischen Therapie ► Aufnahme zahlreicher neuer Themen ► Berücksichtigung der aktuellen Studienlage ► Mitwirkung der führenden Experten in Deutschland

Fachgebiete
Urologie/Andrologie; Nephrologie; Pädiatrie

Zielgruppen
Urologische Weiterbildungsassistenten und Fachärzte in Klinik und Praxis

Kategorie
Fachbuch

Erscheint Juli 2007

4. Aufl. 2007. Etwa 700 S. Geb.

► **€ (D) 199,95 | € (A) 205,56 | sFr 306,50**
ISBN 978-3-540-33847-5
Vorbestellpreis, gültig bis zum 31.12.2007
► **€ (D) 179,95 | € (A) 185,00 | sFr 276,00**

A. R. Saltiel, University of Michigan, Ann Arbor, MI, USA; **J. E. Pessin**, State University of New York at Stonybrook, NY, USA (Eds.)

Mechanisms of Insulin Action

More than 18 million people in the United States have diabetes mellitus, and about 90% of these have the type 2 form of the disease. In addition, between 17 and 40 million people have insulin resistance, impaired glucose tolerance, or the cluster of abnormalities referred to variably as the metabolic syndrome, the dysmetabolic syndrome, syndrome X, or the insulin resistance syndrome. In all of these disorders, a central component of the pathophysiology is insulin resistance, i.e., reduced responsiveness to insulin in tissues such as muscle, fat and liver. Insulin resistance is also closely linked to other common health problems, including obesity, polycystic ovarian disease, hyperlipidemia, hypertension, and atherosclerosis. In this book, we will attempt to dissect the complexity of the molecular mechanisms of insulin action with a special emphasis on those features of the system that are subject to alteration in type 2 diabetes and other insulin resistant states.

Features
► Attempts to dissect the complexity of the molecular mechanisms of insulin action with a special emphasis on those features of the system that are subject to alteration in type 2 diabetes and other insulin resistant states

Contents
Insulin and IGF-I Receptor Structure and Binding Mechanism.- Subcellular Compartmentalization of Insulin Signaling Processes and GLUT4 Trafficking Events.- Regulation of Insulin Action and Insulin Secretion by SNARE-Mediated Vesicle Exocytosis.- Control of Protein Synthesis by Insulin.- Hepatic Regulation of Fuel Metabolism.- Insulin Action Gene Regulation.- Insulin Action in the Islet â-Cell.- Central Regulation of Insulin Sensitivity.- Transgenic Models of Impaired Insulin Signaling.- Insulin Resistance.

Fields of interest
Endocrinology; Cell Biology; Diabetes

Target groups
Endocrinologists, cell biologists, physiologists, diabetes specialists

Type of publication
Contributed volume

Due August 2007

2007. Approx. 225 p. 31 illus., 9 in color. Hardcover

► * **€ (D) 133,70 | € (A) 137,45 | sFr 205,00**
ISBN 978-0-387-72203-0

K. Schaps, O. Kessler, U. Fetzner (Hrsg.)

Das Zweite - kompakt

Grundlagen - GK 2

Das Zweite - kompakt: die erste Hilfe vor dem „Hammerexamen“
Nur keine Panik! Zur effizienten Vorbereitung auf das 2. Staatsexamen gibt es jetzt die neue Prüfungsrepetitorienreihe aus dem Hause Springer.
Von Studenten für Studenten: die knappe, einprägsame Information ist studenten- und prüfungsgerecht aufbereitet und nicht überladen.
Fachliche Verlässlichkeit durch „Facharztcheck“: jedes von Studenten geschriebene Kapitel wurde von Fachärzten gegengelesen und korrigiert. Alle Krankheitsbilder nach neuem Gegenstandskatalog 2 finden sich systematisch in Band I-VIII. Alle Gesundheitsstörungen nach neuem GK mit Differentialdiagnosen und Wiederholung der Diagnostik und Therapie werden in Band IX behandelt. Die ausgefeilte Didaktik wurde mit einem gemischt studentisch-ärztlichem Herausgeberteam entwickelt.

Pluspunkte
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► Alle Grundlagen sehr knapp, alle Krankheitsbilder nach neuer AO systematisch in Band I-VIII

Inhalt
Allgemeine Anamneseerhebung und allgemeine klinische Untersuchung.- Humangenetik.- Pathologie.- Hygiene, Mikrobiologie, Virologie.- Klinische Chemie, Laboratoriumsdiagnostik.- Pharmakologie, Toxikologie.

Fachgebiete
Pathologie; Medizinische Mikrobiologie; Pharmakologie/Toxikologie

Zielgruppen
Medizinstudenten vor der 2. Ärztlichen Prüfung, im klinischen Studienabschnitt und PJ

Kategorie
Lehrbuch

Erscheint September 2007

Angezeigt in Highlights 01/2007

2007. XXVI, 380 S. 120 Abb. (Springer-Lehrbuch) Brosch.

► **€ (D) 24,95 | € (A) 25,65 | sFr 38,50**
ISBN 978-3-540-46344-3

K. Schaps, O. Kessler, U. Fetzner (Hrsg.)

Das Zweite - kompakt

Gynakologie, Pädiatrie - GK2

Das Zweite - kompakt: die erste Hilfe vor dem „Hammerexamen“
Nur keine Panik! Zur effizienten Vorbereitung auf das 2. Staatsexamen gibt es jetzt die neue Prüfungsrepetitorienreihe aus dem Hause Springer.
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► Alle Grundlagen sehr knapp, alle Krankheitsbilder nach neuer AO systematisch in Band I-VIII

Inhalt
Gynäkologie.- Pädiatrie.

Fachgebiete
Gynäkologie; Pädiatrie

Zielgruppen
Medizinstudenten vor der 2. Ärztlichen Prüfung, im klinischen Studienabschnitt und PJ

Kategorie
Lehrbuch

Erscheint Juni 2007

Angezeigt in Highlights 01/2007

2007. XXVI, 190 S. 45 Abb. (Springer-Lehrbuch) Brosch.

► **€ (D) 16,95 | € (A) 17,42 | sFr 26,00**
ISBN 978-3-540-46347-4

K. Schaps, O. Kessler, U. Fetzner (Hrsg.)

Das Zweite - kompakt

Dermatologie, HNO, Augenheilkunde - GK2

Das Zweite - kompakt: die erste Hilfe vor dem „Hammerexamen“
Nur keine Panik! Zur effizienten Vorbereitung auf das 2. Staatsexamen gibt es jetzt die neue Prüfungsrepetitorienreihe aus dem Hause Springer.
Von Studenten für Studenten: die knappe, einprägsame Information ist studenten- und prüfungsgerecht aufbereitet und nicht überladen.
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Fachgebiete
Dermatologie; HNO; Ophthalmologie

Zielgruppen
Medizinstudenten vor der 2. Ärztlichen Prüfung, im klinischen Studienabschnitt und PJ

Kategorie
Lehrbuch

Erscheint Juni 2007

2007. XXVI, 224 S. 90 Abb. (Springer-Lehrbuch)
Brosch.

► **€ (D) 16,95 | € (A) 17,42 | sFr 26,00**
ISBN 978-3-540-46337-5

K. Schaps, O. Kessler, U. Fetzner (Hrsg.)

Das Zweite - kompakt

Neurologie, Psychiatrie, Psychosomatik- GK2

Das Zweite - kompakt: die erste Hilfe vor dem „Hammerexamen“
Nur keine Panik! Zur effizienten Vorbereitung auf das 2. Staatsexamen gibt es jetzt die neue Prüfungsrepetitorienreihe aus dem Hause Springer.
Von Studenten für Studenten: die knappe, einprägsame Information ist studenten- und prüfungsgerecht aufbereitet und nicht überladen.
Fachliche Verlässlichkeit durch „Facharztcheck“: jedes von Studenten geschriebene Kapitel wurde von Fachärzten gegengelesen und korrigiert. Alle Krankheitsbilder nach neuem Gegenstandskatalog 2 finden sich systematisch in Band I-VIII. Alle Gesundheitsstörungen nach neuem GK mit Differentialdiagnosen und Wiederholung der Diagnostik und Therapie werden in Band IX behandelt. Die ausgefeilte Didaktik wurde mit einem gemischt studentisch-ärztlichem Herausgeberteam entwickelt.

Pluspunkte
► Von Studenten für Studenten: die knappe, einprägsame Information ist studenten- und prüfungsgerecht aufbereitet und nicht überladen
► Fachliche Verlässlichkeit durch „Facharztcheck“: jedes von Studenten geschriebene Kapitel wurde von Fachärzten gegengelesen und korrigiert
► Alle Grundlagen sehr knapp, alle Krankheitsbilder nach neuer AO systematisch in Band I-VIII

Inhalt
Neurologie.- Psychiatrie.- Psychosomatik.

Fachgebiete
Neurologie; Psychiatrie

Zielgruppen
Medizinstudenten vor der 2. Ärztlichen Prüfung, im klinischen Studienabschnitt und PJ

Kategorie
Lehrbuch

Erscheint Juni 2007
Angezeigt in Highlights 01/2007

2007. XXVI, 192 S. 18 Abb. (Springer-Lehrbuch)
Brosch.

► **€ (D) 16,95 | € (A) 17,42 | sFr 26,00**
ISBN 978-3-540-46353-5

K. Schaps, O. Kessler, U. Fetzner (Hrsg.)

Das Zweite - kompakt

Innere Medizin - GK 2

Das Zweite - kompakt: die erste Hilfe vor dem „Hammerexamen“
Nur keine Panik! Zur effizienten Vorbereitung auf das 2. Staatsexamen gibt es jetzt die neue Prüfungsrepetitorienreihe aus dem Hause Springer.
Von Studenten für Studenten: die knappe, einprägsame Information ist studenten- und prüfungsgerecht aufbereitet und nicht überladen.
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► Fachliche Verlässlichkeit durch „Facharztcheck“: jedes von Studenten geschriebene Kapitel wurde von Fachärzten gegengelesen und korrigiert
► Alle Grundlagen sehr knapp, alle Krankheitsbilder nach neuer AO systematisch in Band I-VIII

Inhalt
Kardiologie, Angiologie - Pneumologie - Gastroenterologie - Hepatologie, Gallenwege, Pankreas - Nephrologie - Hämostaseologie, Hämatologie, Onkologie - Endokrinologie, Stoffwechsel - Rheumatologie.

Fachgebiete
Innere Medizin; Kardiologie; Pneumologie

Zielgruppen
Medizinstudenten vor der 2. Ärztlichen Prüfung, im klinischen Studienabschnitt und PJ

Kategorie
Lehrbuch

Erscheint Juni 2007
Angezeigt in Highlights 01/2007

2007. XXVI, 221 S. 66 Abb. (Springer-Lehrbuch)
Brosch.

► **€ (D) 16,95 | € (A) 17,42 | sFr 26,00**
ISBN 978-3-540-46350-4

J. Schatz, **R. Tammer**, Universität Ulm (Hrsg.)

Erste Hilfe - Chemie und Physik

für Mediziner

Physik / Chemie – Konnt´ ich noch nie!
Doch das ist kein Hindernis für das Medizinstudium. 20 leidgeprüfte Kommilitonen haben sich zusammengetan, um die schwarzen Löcher der Schulzeit auszuleuchten. Daraus ist dieses Buch von Studierenden für Studierende entstanden.
Was ist drin? Von Vektoren bis zur Statistik – die notwendigen mathematische Grundlagen; Periodensystem, Stoffe, Dichte, Stöchometrie… kurz: Grundlegendes aus den Naturwissenschaften; vollständiger Vorlesungsstoff Physik für Mediziner – vom Newton Apfel bis zur Ionisierenden Strahlung und Krebs; von der chemischen Bindung bis zur Komplexchemie – der gesamte Vorlesungsstoff Chemie für Mediziner; Formelsammlungen, Glossar, griechisches Alphabet – alles, was man schon immer mal nachschlagen wollte. Wie sieht´s aus? Kein Fachkauderwelsch; alles im Detail erläutert; Beispiele und Interessantes für zwischendurch; Das Wichtige noch mal in der Randspalte; Fragen (+ Lösungen) am Schluss.
Chemie / Physik – Jetzt macht´s Klick

Pluspunkte
► Von Studenten geschrieben: „die unterhaltsame Nachhilfe in Buchform" ► Expertencheck durch Dozenten (Herausgeber) ► Alle Inhalte von den Grundlagen bis hin zur ersten ärztlichen Prüfung ► Alle Mathegrundlagen für Chemie und Physik ► Alle naturwissenschaftlichen Grundlagen für Chemie und Physik

Fachgebiete
Medizin/Gesundheitswesen, allgemein

Zielgruppen
Medizinstudenten zu Beginn der Vorklinik

Kategorie
Lehrbuch

Erscheint September 2007

2008. Etwa 580 S. 200 Abb. (Springer-Lehrbuch) Brosch.

► ca. **€ (D) 34,95 | € (A) 35,93 | sFr 53,50**
ISBN 978-3-540-33959-5

M. A. Shiffman, **S. Mirrafati**, **S. M. Lam**, **C. G. Cueteaux** (Eds.)

Simplified Facial Rejuvenation

Simplified Facial Rejuvenation is divided into sections that include anatomy and anesthesia, classifications, dermatologic procedures, suture lifts, surgical cariations of the face, surgical variations of the eyes, brow, neck, lips, nose ear, and scalp, and medical legal aspects. There are multiple variations of suture lift procedures presented to allow the physician to decide which is best. Unique surgical procedures of the face are presented, many of which are techniques of minimal incision facelift, and new techniques including resection of the supraorbital ridges, mesotherapy for hair rejuvenation, transblepharoplasty browlift, and cervicoplasty with hexagonal excision, as well as new classifications of facial aging. The book brings together the more popular procedures for patients that include simpler methods of facial rejuvenation with less pain, shorter recovery time, less cost, and less complications.

Features
► Presents in one book all of the simplified facial procedures in facial rejuvenation ► More popular methods for patients ► Offers procedures not seen in other books ► How-to-do manual for simpler methods of facial surgery ► Abundantly illustrated ► Written by noted authorities in plastic surgery

From the contents
Section I: Anatomy and Anesthesia.- Section II: Classifications.- Section III: Dermatology.- Section IV: Facial Fillers and Implants.- Section V: Suture Lifts.- The Facial Thread Lift: History and Technique.- Bidirectional, Non-Anchored Suture Lifts.- Soft Lift for the Face.- Anti-Gravity/Elevation Lift.

Fields of interest
Plastic Surgery; Otorhinolaryngology; Dermatology

Target groups
Plastic surgeons, general surgeons, dermatologists, otolaryngologists, facial plastic surgeons, oral maxillofacial surgeons, ophthalmologic surgeons, and cosmetic surgeons (residents, fellows, and experienced surgeons)

Type of publication
Monograph

Due September 2007

2007. Approx. 650 p. 958 illus. 852 in color Hardcover

► * **€ (D) 266,43 | € (A) 273,90 | sFr 408,00**
ISBN 978-3-540-71096-7

V. Sica, **C. Napoli**, Seconda Università di Napoli, Italia

Danno vascolare e tromboemostasi

Fisiopatologia e patologia clinica

From the contents
Sviluppo dei sistemi emopoietico e vascolare. Sviluppo embrionale del sistema emopoietico. Produzione extra-embrionale delle cellule emopoietiche. Inizio della circolazione sanguigna. Colonizzazione di tessuti embrionali emopoietici. Sviluppo dell'arteriogenesi a livello embrionale.- Relazione familiare tra cellule emopoietiche ed endoteliali. Letture consigliate.- Espansione ex-vivo di cellule emopoietiche. Introduzione. Sistema di coltura Dexter. Sistema di coltura con aggiunta di citochina. Sistema di coltura di membrane separate. Sistema di coltura tridimensionale (3-D). Letture consigliate.- Fisiopatologia dell'angiogenesi. Letture consigliate.- Fisiopatologia dell'emostasi. Introduzione. Cenni storici. L'emostasi primaria. L'emostasi secondaria. La regolazione dell'emostasi. Il sistema fibrinolitico. L'ipercoagulazione primaria. Gli squilibri del sistema fibrinolitico. Altre forme di ipercoagulazione primaria. Il ruolo delle piastrine.

Fields of interest
Angiologia; Oncologia; Cardiologia

Target groups
Angiologi, cardiologi e chirurghi vascolari, oltre che per diabetologi, gerontologi e patologi clinici

Type of publication
Monografia

Pubblicazione prevista per il mese di giugno 2007

2007. XII, 140 pagg. Brossura

► * **€ (D) 33,90 | € (A) 34,85 | sFr 52,00**
ISBN 978-88-470-0626-3

R. Siewert

Basiswissen Chirurgie

Das neue Siewert: Basiswissen Chirurgie - die gesamte Chirurgie als knappes Repetitorium:
In diesem, die gesamte Chirurgie umfassenden Kurzlehrbuch zum neuen GK 2 findet der Medizinstudierende alles, was man für Staatsexamen und Prüfung in Kurs oder Seminar wissen muss. Das Buch ist übersichtlich nach den Fachbereichen der Chirurgie gegliedert. Kurz gefasste, einheitlich durchstrukturierte Texte und Wichtig- und Cave-Hervorhebungen, Übersichten und Tabellen verschaffen einen schnellen Überblick über das gesamte Fachgebiet. Klinik, Diagnostik und Therapie aller wichtigen chirurgischen Krankheitsbilder finden sich ebenso wie die Indikationen für chirurgisches Eingreifen und die Durchführung der wichtigsten chirurgischen Operationstechniken. Abgerundet wird der neueste Sproß aus dem Hause Springer durch über 300 vierfarbige Abbildungen: anschauliche Zeichnungen und Schemata, authentische Röntgenbilder, CTs, MRTs, Ultraschallbilder und klinische Fotos direkt aus Ambulanz und OP.

Pluspunkte
► Alle Inhalte, die der Studierende in der Chirurgie wissen muss, knapp und kompakt mit klar strukturierten Texten „heroldartig" auf den Punkt gebracht ► Alle Krankheitsbilder des neuen Gegenstandskataloges sind enthalten ► Klinik, Diagnostik, Therapie zu jedem wichtigen Krankheitsbild ► Besondere Hervorhebung der Indikation für den chirurgischen Eingriff ► Über 300 vierfarbige Abbildungen machen die Lerninhalte anschaulich

Inhalt
Allgemeine Chirurgie - Neurochirurgie - Mund-, Kiefer- und Gesichtschirurgie - Thoraxchirurgie - Herzchirurgie - Gefäßchirurgie - Viszeralchirurgie - Unfallchirurgie - Plastische Chirurgie - Chirurgie der Verbrennungen, Kälteschäden und chemischen Verletzungen - Kinderchirurgie.

Fachgebiet
Chirurgie

Zielgruppen
Medizinstudenten im klinischen Studienabschnitt einschließlich PJ

Kategorie
Lehrbuch

Erscheint Juni 2007

Angezeigt in Highlights 01/2007

2007. XVIII, 488 S. 518 Abb. in Farbe. (Springer-Lehrbuch) Brosch.

► **€ (D) 29,95 | € (A) 30,80 | sFr 46,00**
ISBN 978-3-540-29918-9

I. Spicker, **A. Schopf**, Forschungsinstitut des Rotes Kreuz Wien

Betriebliche Gesundheitsförderung erfolgreich umsetzen

Praxishandbuch für Pflege- und Sozialdienste

Zeitdruck, Stress, Überlastung – Pflegekräfte und HeimhelferInnen in der mobilen Pflege und Betreuung sind einem hohen Gesundheitsrisiko ausgesetzt. ManagerInnen und Führungskräfte in Pflegeorganisationen stehen zunehmend vor der Herausforderung, gesundheitsförderliche Arbeitsbedingungen zu gestalten. Erfolgreich umgesetzte betriebliche Gesundheitsförderung hat positiven Einfluss auf das Wohlbefinden der MitarbeiterInnen und steigert die Qualität der Arbeit sowie die Leistungsfähigkeit der Organisation.
Dieses Handbuch bietet erstmals im deutschsprachigen Raum Führungskräften und Personalverantwortlichen in sozialen Dienstleistungsorganisationen praktische Orientierungshilfe und effektive Unterstützung bei der Planung, Umsetzung und nachhaltigen Verankerung von betrieblicher Gesundheitsförderung.

Pluspunkte
► Entscheidungs- und Orientierungshilfe für gesundheitsfördernde Maßnahmen ► Erstmaliges Instrumentarium für Planung und Umsetzung ► Hilfreiche Check-Listen, Leitfäden und Projektmanagement-Instrumente

Fachgebiete
Pflegemanagement/Pflegewissenschaft; Krankenpflege; Gesundheitsförderung und Krankheitsvorbeugung

Zielgruppen
Leitungskräfte und Personalverantwortliche in Organisationen mobiler Pflege und Betreuung, Pflegewissenschafter, Pflegende

Kategorie
Handbuch

SpringerWienNewYork

Erscheint Juni 2007

Angezeigt in Highlights 01/2007

2007. Etwa 150 S. 20 Abb. Brosch.

► ca. **€ (D) 29,90 | € (A) 29,90 | sFr 46,00**
ISBN 978-3-211-48643-6

U. M. Spornitz, Universität Basel

Anatomie und Physiologie

Lehrbuch und Atlas für Pflege- und Gesundheitsfachberufe

Die Funktionen des menschlichen Körper sehen, lernen und verstehen. Mit Lernzielübersichten vor jedem Kapitel; Übungsfragen zur Selbstkontrolle, knapp 500 Abbildungen, Fachbegriffen im gesonderten Glossar, Pflege- und Krankheitslehreverweisen nach dem neuem Krankenpflegegesetz und vielem mehr was das Lernen und Verstehen erleichtert, vermittelt die 5. Auflage von Anatomie und Physiologie Auszubildenden in Pflegefachberufen und allen anderen Gesundheitsfachberufen die Grundlagen des Faches.
Die Abbildungen sind für die Unterrichtsgestaltung gesondert auf einer CD-ROM erhältlich. Das Lernen können wir Ihnen nicht abnehmen – das Verstehen jedoch entscheidend erleichtern!

Pluspunkte
► Komplexe Zusammenhänge von Anatomie und Physiologie klinikbezogen lernen und verstehen
► Neues Kapitel: Alter und Altern

Inhalt
Allgemeine Einführung und Grundbegriffe.- Zytologie.- Histologie.- Bewegungsapparat.- Nervensystem.- Blut.- Herz-Kreislauf-System.- Immunologie.- Atmungssystem.- Verdauungssystem.- Harnsystem.- Endokrinologie.- Geschlechtsorgane und Fortpflanzung.- Haut und Anhangsorgane.- Temperaturregulation.- Sinnesorgane.- Altern.

Fachgebiete
Krankenpflege; Rettungsdienst; Physiotherapie

Zielgruppen
Auszubildende in Pflegeberufen und allen anderen Gesundheitsfachberufen

Kategorie
Fachbuch

Erscheint August 2007

Nur gedruckte Ausgabe erhältlich

5. überarb. u. erw. Aufl. 2007. Etwa 524 S. 493 Abb. Geb.

► **€ (D) 29,95 | € (A) 30,80 | sFr 46,00**
ISBN 978-3-540-72267-0

V. Stocchi, University of Urbino, Italy (Ed.)

The role of physical exercise in disease prevention and quality of life improvement

Over the last decade studies have shown that physical exercise plays an important role in maintaining an individual's psycho-physical balance. In particular, it has been demonstrated that prolonged regular physical activity (now defined in scientific publications as chronic physical activity) helps to significantly reduce the incidence of neurodegenerative and neuromuscular diseases, which are often associated with ageing, while at the same time bolstering the immune system. Promoting physical activity therefore helps preventing today's major health challenges, such as diabetes, high blood pressure, cardiorespiratory diseases, obesity, osteoporosis, arthritis, and cancer, thus leading to a reduction in healthcare costs and freeing up resources for future generations.
The volume will be an essential reading for all health professionals and for residents in medicine and in health and physical exercise.

Features
► Over the last decade studies have shown that physical exercise plays an important role in maintaining an individual's psycho-physical balance ► Aim of this volume is underline that promoting physical activity is crucial for preventing illness and maintaining our health, this leading to a reduction in healthcare costs

Contents
Metabolic Modifications and Physical Exercise.- Mitochondrial Biogenesis and Physical Exercise.- Physical Exercise and Oxidative Stress.- Mitochondrial Alterations in Ageing and Diseases.- Nutrition, Physical Exercise and Obesity.- Physical Exercise.- Health and Wellness: Sociological and Psychological Aspects.

Fields of interest
Health Promotion and Disease Prevention; Diabetes; Metabolic Diseases

Target groups
General practitioners, specialists in physiology, biochemistry, nutrition, health professionals

Type of publication
Professional book

SpringerWienNewYork

Due June 2007

2007. Approx 262 p. Hardcover

► approx. *** € (D) 58,80 | € (A) 60,45 | sFr 90,50**
ISBN 978-88-470-0375-0

U. Stöhr, Berlin

Seniorenspielbuch

Reaktivierung Dementer in Pflege und Betreuung

Eine Demenz verändert die Persönlichkeit des Menschen. Im schleichenden Prozess verlieren Betroffene gewohnte Fähigkeiten, Sicherheit und Selbstständigkeit. Dementiell eingeschränkte Menschen haben immer noch funktionsfähige Sinnesbereiche mit offenen Zugängen für sprachliche und emotionale Ansprechbarkeiten. Dieses Buch zeigt neue Trends in der Altenpflege sowie die häufigsten Demenzformen und deren Auswirkungen. Gut strukturiert und einfühlsam beschrieben werden 200 Spiele zur Förderung von Bewegung, Entspannung, Kommunikation, Orientierung, Konzentration und das Gedächtnis angeboten. Die Autorin berichtet von ihrer jahrelangen Spielerfahrung mit Senioren. Den Pflegepersonen und Betreuern werden Möglichkeiten aufgezeigt, wie sie den Abbau durch spielerisches Üben aufhalten und vorhandene Ressourcen entdecken, stärken und erhalten können. Denn spielerisch aktivierte Menschen wollen ihre entdeckten Stärken und Fähigkeiten in einer partnerschaftlichen Pflege äußern.

Pluspunkte
► Ein Fundus von 200 Spielideen ► Ideale Ergänzung für die Pflege von dementen Personen ► Gut strukturiert, einfach umsetzbare Übungen

Fachgebiete
Krankenpflege; Psychiatrie; Sachbuch Medizin und Gesundheit

Zielgruppen
Pflegepersonen, Heimhelfer, Betroffene, Mobile Krankenpflege, Gerontopsychologen, Gerontopsychiater

Kategorie
Fachbuch

SpringerWienNewYork

Erscheint August 2007

2007. Etwa 200 S. 16 Abb. in Farbe. Brosch.

► ca. **€ (D) 24,95 | € (A) 24,95 | sFr 38,50**
ISBN 978-3-211-72016-5

European Dementia Consensus Network (Ed.)

Competence Assessment in Dementia

Editor-in-chief: G. Stoppe

The increasing number of demented elderly in our societies, the ongoing debate on patient's rights and autonomy, and the growing body of knowledge on the dementias led the European Dementia Consensus Network to regard competence assessment in dementia as an important topic of debate. To date, no other comprehensive publication on this topic is known to exist. EDCON performed a transeuropean survey and has agreed on a consensus, which takes into account the variability of clinical symptoms of dementia as well as the special functions required for different purposes. This book contains a summarised consensus as well as chapters on the state of art of neuropsychological functions and how they are related to the areas of competence and chapters which deals with ethical, legal perspectives. The area of competence, e.g. in the field of driving capacity will be discussed in an own chapter. Furthermore, the book contains short contributions on the situation in individual European countries.

Features
► Comprehensive overview of different aspects of the competence assessment in dementia ► Neuropsychological, medical, ethical and legal perspectives ► Written by European experts in this field

Fields of interest
Psychiatry; Psychotherapy; Neuropsychology

Target groups
Psychiatrists, neuropsychologists, lawyers, dementia experts, memory clinics

Type of publication
Professional book

SpringerWienNewYork

Due August 2007

2007. Approx. 200 p. 20 illus. Hardcover

► approx. *** € (D) 53,45 | € (A) 54,95 | sFr 82,00**
ISBN 978-3-211-72368-5

J. R. Stout, **J. Antonio**, **D. Kalman** (Eds.)

Essentials of Creatine in Sports and Health

With all of the misinformation regarding the effects of creatine supplementation on health and sports performance, Essentials of Creatine in Sports and Health brings together the information on how creatine affects body composition, exercise performance, and health. Supported by the International Society of Sports Nutrition, this volume is timely and vital for all professionals in the field of sports nutrition.

Features
► Endorsed by the International Society of Sports Nutrition (ISSN)

Contents
An Overview of Creatine Metabolism.- Creatine Supplementation in Strength-Power Sports.- Creatine Supplementation in Endurance Sports.- Creatine Supplementation and Woman Athletes.- Creatine Consumption and Health.- Clinical Application.- Creatine Overview: Facts, Fallacies and Future.

Fields of interest
Sports Medicine; Health Promotion and Disease Prevention; Rehabilitation Medicine

Target groups
Nutritionists, sports rehabilitators, physical therapists, and health educators

Type of publication
Contributed volume

HUMANA PRESS

Due October 2007

2007. Approx. 190 p. 24 illus. Hardcover

► * **€ (D) 80,20 | € (A) 82,45 | sFr 123,00**
ISBN 978-1-58829-690-0

G. Stux, Akupunktur Centrum Düsseldorf

Akupunktur

Einführung

Zeichnungen von: P. Kofen
Übersetzt aus dem Chinesischen von: K. Sahm

Dieses Buch beweist, dass es möglich ist, westliche Medizin mit traditionellen chinesischen Konzepten zu verbinden: Einerseits wird das chinesische System von Meridianen und funktionellen Organen und die 120 wichtigsten Akupunkturpunkte gut verständlich beschrieben und ergänzt durch eine Einführung in Philosophie und Tradition der chinesischen Medizin. Andererseits wird die neurophysiologische Wirkung der Akupunktur auch aus moderner wissenschaftlicher Perspektive erklärt.
Den Hauptteil des Buches macht die Therapie von Krankheiten aus, basierend auf westlichen Diagnosen. Für besonders häufig behandelte Krankheiten werden die jeweils wichtigsten Akupunkturpunkte erläutert – also wirklich das Buch eines Praktiker für die Praxis.
Für die 9. Auflage aktualisiert: Der Stellenwert der Akupunktur in der derzeitigen gesundheitspolitischen Situation, neu definierte Qualitätsstandards für Ausbildung und Praxis, Ergebnisse der Modellstudien und weiterer aktueller klinischer Studien zur Wirksamkeit der Therapie.

Pluspunkte
► Ideal als Einstiegslektüre in die Praxis der Akupunktur! ► Klare Übersichten und Abbildungen zu Meridianen und Organen ► Konkretes Vorgehen bei 95 Krankheitsbildern (westliche Diagnosen)

Fachgebiete
Akupunktur; Allgemeinmedizin; Anästhesiologie

Zielgruppen
Ärzte für Naturheilverfahren, Allgemeinärzte, Schmerztherapeuten

Kategorie
Monographie

Erscheint September 2007

7., erw. Aufl. 2007. Etwa 350 S. 64 Abb. in Farbe Brosch.

► **€ (D) 19,95 | € (A) 20,50 | sFr 31,00**
ISBN 978-3-540-72355-4

J. Tomasits, AKH Linz; **P. Haber**, Universitätsklinikum Wien

Leistungsphysiologie

Grundlagen für Trainer, Physiotherapeuten und Masseure

Allgemein geltende Grundlagen der Leistungsphysiologie, wie z.B. Leistungsfähigkeit, bilden den Schwerpunkt des Buches. Themen wie Energiestoffwechsel, Kreislauf und Atmung während einer Belastung und unter Berücksichtigung der Prinzipien der medizinischen Trainingslehre werden umfassend behandelt. Die 3. Auflage wurde um die neuesten Ergebnisse aus der sportmedizinischen Forschung ergänzt. Zudem wird dem Gender Aspekt ausführlich Rechnung getragen. Die Grundregeln der Planung und Gestaltung systematischen Trainings von Ausdauer und Kraft, sowie die dazugehörige Ernährungsphysiologie werden leicht verständlich dargestellt. Hauptzielgruppe sind Trainer, Physiotherapeuten und Masseure, aber auch interessierte Laien. Den Physiotherapeuten kommt eine immer größere Bedeutung als Übungsleiter für therapeutisches Training im Bereich der Rehabilitation zu. Dieses Buch bietet somit eine solide Basis für qualifiziertes Vorgehen bei der Anleitung zu rehabilitativem Training und zur Beratung.

Pluspunkte
► Leicht verständlich aufbereitete Grundlagen zur Leistungsphysiologie und Trainingslehre ► Neueste Ergebnisse aus der sportmedizinischen Forschung und Gender Aspekte ► Zahlreiche anschauliche Abbildungen

Fachgebiete
Physiotherapie; Sportmedizin; Humanphysiologie

Zielgruppen
Physiotherapeuten, Sportmediziner, Ernährungswissenschafter, Trainer

Kategorie
Handbuch

SpringerWienNewYork

Erscheint August 2007

3., neu bearb. Aufl. 2008. Etwa 250 S. 30 Abb., z.Tl. in Farbe. Brosch.

► ca. **€ (D) 34,95 | € (A) 34,95 | sFr 53,50**
ISBN 978-3-211-72018-9

H. Weber, Donauspital Wien

Herzinsuffizienz

vom Symptom zum Therapie-Erfolg

Die Herzinsuffizienz, akut oder chronisch, systolisch oder diastolisch, führt zu starker Beeinträchtigung der Lebensqualität und verkürzt die Lebenserwartung. In Europa erkranken rund 2% der Bevölkerung an einer HI.
Rechtzeitig erkannt und analysiert können heute eine Vielzahl an therapeutischen Maßnahmen eingesetzt werden, die sowohl die Lebensqualität als auch die Lebenserwartung signifikant verbessern können. Dieses Buch beschreibt den derzeitigen Stand der diagnostischen und therapeutischen Maßnahmen basierend auf langjähriger klinischer Erfahrung und den internationalen Richtlinien. Neben der medikamentösen Therapie als Basis, implantierbaren Geräten und operativen Verfahren werden auch psycho-soziale Aspekte und physikalische Therapieverfahren berücksichtigt.

Pluspunkte
► Klare Darstellung eines häufigen Krankheitsbildes ► Aktuelle Therapiemaßnahmen ► Berücksichtigung Internationaler Richtlinien

Fachgebiete
Allgemeinmedizin; Innere Medizin; Kardiologie

Zielgruppen
Allgemeinmediziner, Internisten, Ärzte in Ausbildung, Kardiologen

Kategorie
Monographie

SpringerWienNewYork

Erscheint Juli 2007

2007. Etwa 150 S. (Edition Ärztewoche) Brosch.

► ca. *** € (D) 19,95 | € (A) 19,95 | sFr 31,00**
ISBN 978-3-211-72020-2

R. A. Williams, Minority Health Institute, Encino, CA, USA (Ed.)

Eliminating Healthcare Disparities in America

Beyond the IOM Report

In this book, Dr. Richard Allen Williams has assembled the very best scholars on healthcare disparities to raise the public conciousness of this issue. Arranged into discrete categories, this volume contains comprehensive coverage, both historical and current, of the healthcare disparity crisis currently plaguing our country in hopes of leading us all to a brighter future.

From the contents
Historical Perspectives on Healthcare Disparities: Is the Past Prologue?- Epidemiology of Racial and Ethnic Disparities in Health and Healthcare.- Cultural Diversity in Medicine and in Healthcare Delivery.- Healthcare and the Politics of Race.- Barriers to Eliminating Disparities in Clinical Practice: Lessons From the IOM Report.- Second-Class Medicine: Implications of Evidence-Based Medicine for Improving Minority Access to the Correct Pharmaceutical Therapy.- The Diversity Benefit: How Does Diversity Among Health Professionals Address Public Needs?- The Role of Health Plans in Eliminating Disparities.- Eliminating Healthcare Disparities Through Quality Improvement.- Eliminating Racial Discrimination in Healthcare: A Call for State Healthcare Anti-Discrimination Law.- Quality of Care and Health Disparities: The Evolving Role of Government.- The Role of Communities in Eliminating Disparities in Healthcare: Getting Down to the Grass Roots.

Fields of interest
Medicine/Public Health, general; General Practice / Family Medicine; Internal Medicine

Target groups
Internists, family physicians, and medical specialists

Type of publication
Contributed volume

HUMANA PRESS

Due October 2007

2008. Approx. 500 p. 16 illus. Hardcover

► approx. *** € (D) 49,06 | € (A) 50,44 | sFr 75,50**
ISBN 978-1-934115-42-8

T. H. Williamson, Surrey, UK

Vitreoretinal Surgery

This lavishly illustrated guide covers the most common diseases with appropriate approaches to various vitreoretinal problems. All common and suitable vitreoretinal procedures are explained in a step-by-step manner with diagrams and color photos. Furthermore, the accompanying DVD contains video clips to fully illustrate the disorders and surgical methods.
The reader will find all the information needed to start the surgical procedure and will enjoy the readability of the text and relaxed writing style. All factual information is backed up by selective referencing of the published literature.
Finally a basic electronic patient record system is provided, which corresponds to the subject material using the same six main groups of diagnostic categories in the text and allows the surgeon to organize and audit their clinical data and compare their performance with the quoted success rates in the book.

Features
► Describes and explains all common vitreoretinal procedures in a step-by step manner with diagrams and color photos ► Lavishly illustrated with accompanying DVD including video-clips as well as all photographs and artwork for teaching purposes ► Reader-friendly relaxed writing style

Contents
Introduction to Surgery.- Posterior Vitreous Detachment.- Vitreous Hemorrhage.- Rhegmatogenous Retinal Detachment.- Special Rhegmatogenous Retinal Detachment.- Proliferative Vitreoretinopathy. - Macular Disorders. - Diabetes and Other Vascular Disorders.- Trauma.- Complications of Anterior Segment Surgery.- Uveitis and Allied Disorders.- Miscellaneous Conditions.- Appendix: Summary of Emergency Conditions.

Fields of interest
Ophthalmology; Physics, general; Surgery

Target groups
Ophthalmologists, especially vitreo-retinal surgeons

Type of publication
Monograph

Due August 2007

2007. Approx. 300 p. 450 illus. With DVD. Hardcover

► approx. *** € (D) 160,45 | € (A) 164,95 | sFr 246,00**
ISBN 978-3-540-37581-4

F. Capasso, F. Borrelli, R. Longo, R. Capasso

Farmacognosia applicata

Controllo di qualità delle droghe vegetali

Il processo di identificazione è per una droga vegetale di enorme importanza ai fini della efficacia e sicurezza della stessa. Infatti la risposta terapeutica e gli effetti indesiderati sono fortemente condizionati dalla identificazione della droga e dalla presenza di contaminanti botanici.
Il testo si compone di due parti; la prima sintetizza gli aspetti diagnostici che indirizzano verso il riconoscimento della droga vegetale, mentre la seconda riporta gli aspetti macro- e microscopici della droga ed i saggi chimici e farmacologici che consentono con certezza l'identificazione della stessa. Infine, l'ultima parte riporta alcuni esempi di cromatogrammi e di tracciati di organi isolati.
Il volume sarà un utile strumento di approfondimento non solo per gli studenti ma anche per tutti coloro che, per la loro attività professionale, devono identificare le droghe vegetali ed evidenziare eventuali corpi vegetali estranei.

Contents
Parte generale: Introduzione.- Riconoscimento di una droga vegetale: come procedere.- Inclusi cellulari.- Strutture cellulari.- Schemi generali per il riconoscimento di una droga organizzata e non organizzata.- Reazioni di riconoscimento dei principi attivi (metaboliti secondari).- Saggi biologici.- Altri saggi.- Parte speciale: Droghe vegetali organizzate.- Radici.- Rizomi- Fusti e cortecce.- Foglie.- Fiori.- Frutti.- Erba.- Gemme.- Droghe vegetali non organizzate.- Succhi.- Latici.

Fields of interest
Farmacia

Target groups
Farmacologi, chimici del farmaco

Type of publication
Monografia

Pubblicazione prevista per il mese di giugno 2007

2007. Approx. 200 p. Brossura

► approx. *** € (D) 61,68 | €(A) 63,40 | sFr 94,50**
ISBN 978-88-470-0662-1

J. Bulte, Johns Hopkins University, Baltimore, MD, USA; **M. Modo**, King's College, London, UK (Eds.)

Nanoparticles in Biomedical Imaging

Emerging Technologies and Applications

The generation of imaging nanoparticles is diverse and dependent on its myriad of applications. This book will provide an overview of how these imaging particles can be designed to fulfill specific requirements for applications across different imaging modalities.

Features
► Presents, for the first time, a comprehensive interdisciplinary overview of the impact nanoparticles exert on biomedical imaging ► Collects these topics within a book to provide a common central resource to researchers and teachers that aim to advance these exciting new opportunities in biomedical imaging

From the contents
Introduction.- Use of Paramagnetic Dendrimers for Lymph Node Imaging.- Use of Uspios for Clinical Lymph Node Imaging.- Use of Spios for Clinical Liver Staging.- Use of Uspios for Imaging Xenograft Rejection.- Use of Uspios for Imaging of Arteriosclerosis.- Use of Spios for Labeling And Tracking of Stem Cells and Progenitors.- Use of Mpios for Cellular Imaging: More Bang for the Buck.- Use of Perfluorocarbon Emulsions for Specific MR Imaging of Sparse Molecular Epitopes.- Magnetic Nanosensors for Probing Molecular Interactions.- Magnetoptical Probes.- Use of Radiolabeled Liposomes for Tumor Targeting.- Use of Radiolabeled Liposomes for Imaging Infection/Inflammation.- Use of Sulfur Colloids for Imaging Bone Marrow/Lymph Nodes.- Use of Ultrasound Bubbles in Lymph Node Imaging.- Use of Ultrasound Bubbles for Vascular Imaging.- Ultrasound Bubbles.- Use of Ultrasound Bubbles for Specific Imaging of Fibrin Clots.- Use of Ultrasound Bubbles for Molecular Imaging In Atherosclerosis.

Fields of interest
Biomedicine general; Nanotechnology; Imaging / Radiology

Target groups
Researchers within the field of imaging; chemists, physicists, biologists, pathologists, clinicians

Type of publication
Contributed volume

Due December 2007

2008. Approx. 400 p. 97 illus., 71 in color. (Fundamental Biomedical Technologies, Volume 3) Hardcover

► * **€ (D) 123,00 | € (A) 126,45 | sFr 188,50**
ISBN 978-0-387-72026-5

J. Ewbank, **E. Vivier**, Centre d'Immunologie de Marseille-Luminy, France (Eds.)

Innate Immunity

Immunologists today are interested in all of the diverse cell-types involved in host defense and have a deeper appreciation of the importance of innate immune mechanisms as a first line of protection against pathogens. This volume thus contains chapters dealing with the isolation and functional characterization of cells involved in innate immunity in mouse and man, including mast cells and eosinophils, and with several chapters focusing on natural killer cells. These approaches and models are being used to dissect the complex interplay between hosts and pathogens, and contribute to developing strategies to help fight infection.

From the contents
ENU mutagenesis in mice.- Innate immunity genes as candidate genes: searching for relevant natural polymorphisms in databases and assessing family-based association of polymorphisms with human diseases.- KIR locus polymorphisms: Genotyping and disease association analysis.- Experimental model for the study of the human immune system: production and monitoring of "Human Immune System" Rag2-/-gc-/- mice.- BAC transgenesis via pronuclear injection of fertilised mouse oocytes.- Bioluminescence Imaging to Evaluate Infections and Host Response In Vivo.- Intravital Two photon Imaging of Natural Killer Cells and Dendritic Cells in Lymph Nodes.- Dissection of the antiviral NK cell response by MCMV mutants.

Field of interest
Immunology

Target groups
Immunologists, histologists, geneticists, molecular biologists

Type of publication
Contributed volume

HUMANA PRESS

Due October 2007

2007. Approx. 530 p. 61 illus. (Methods in Molecular Biology, Volume 415) Hardcover

► * **€ (D) 80,20 | € (A) 82,45 | sFr 123,00**
ISBN 978-1-58829-746-4

H. L. Kaufman, **S. Wadler**, **K. Antman** (Eds.)

Molecular Targeting in Oncology

In Molecular Targeting in Oncology, authors present an overview of the development of targeted therapies for the treatment of cancer with an emphasis on clinical application. The volume covers the complexity of the rapidly developing area of targeted therapies for the treatment of patients with cancer and is structured in a way so readers may begin with chapters that most interest them and work through the rest of the chapters in the order of their choice.
The volume is divided into five sections that cover the most important elements of drug development. The first section focuses on approaches using targeted therapies to inhibit cell growth. The second section describes how clinicians are evaluating targeted therapies in specific organ systems. The third section illustrates how various classes of pharmacologic and immunologic agents are developed for individual molecular targets. The fourth section details new drugs that have novel mechanisms of action.

Features
► Five sections cover the most important elements of drug development: Drugs, Strategies, Disease Sites, Classes, and Challenges ► Sections present different perspectives on how targeted therapeutics are being evaluated

Fields of interest
Cancer Research; Oncology; Pharmacology/Toxicology

Target groups
Cancer researchers, oncologists, pharmacologists, medical chemists

Type of publication
Contributed volume

HUMANA PRESS

Due October 2007

2007. Approx. 550 p. 68 illus. (Cancer Drug Discovery and Development) Hardcover

► * **€ (D) 144,40 | € (A) 148,45 | sFr 221,50**
ISBN 978-1-58829-577-4

J. Lambris, University of Pennsylvania, Philadelphia, PA, USA (Ed.)

Current Topics in Innate Immunity

Innate Immunity has long been regarded as the non-specific arm of immune response, acting immediately and in a generic way, to defend the host from infections. In the post genomic era, our knowledge of the innate immune system is enriched by findings on the specificity of innate immune reactions as well as to novel functions that do not strictly correlate with immunological defense and surveillance, immune modulation or inflammation. Several studies indicate that molecules involved in innate immunity exert functions that are either more complex than previously thought, or go well beyond the innate immune character of the system.
The advent of high-throughput platforms for genome and proteome-wide profiling, together with the enormous amount of raw genetic information that has accumulated in the databases, have stirred new expectations in biomedical research.

Features
► Proceedings from the 4th International Conference on Innate Immunity (June 4 - 9, 2006)

From the contents
Toll-like Receptors, Natural Killer Cells and Innate Immunity.- Structural Insight into Natural Killer T Cell Receptor Recognition of CD1d.- The Journey of Toll-like Receptors in the Cell.- Differential Regulation of Key Signaling Molecules in Innate Immunity and Human Diseases.- Systems Biology of Macrophages.- The Alternative Pathway of Complement: a Pattern Recognition System.- Role of MBL-associated Serine Protease (MASP) On Activation of the Lectin Complement Pathway.- Viral Heparin-Binding Complement Inhibitors – A Recurring Theme.- C3a Receptors Signaling in Mast Cells.

Fields of interest
Immunology; Microbiology; Infectious Diseases

Target groups
Researchers, scientists, professionals, clinicians, physicians; industry; graduate students in the fields of immunology, microbiology, infectious disease, virology, pharmacology, medicine

Type of publication
Proceedings

Due July 2007

2007. Approx. 420 p. 98 illus. (Advances in Experimental Medicine and Biology, Volume 598) Hardcover

► * **€ (D) 144,40 | € (A) 148,45 | sFr 221,50**
ISBN 978-0-387-71765-4

F. Lang, **P. Lang**, Tübingen

Basiswissen Physiologie

Nach Physik, Chemie und Biologie: hier rückt endlich der Mensch in den Mittelpunkt: Zellphysiologie, Immunsystem, Energie-Haushalt, Nierenfunktion, Hormone, Nervensystem, Sinne. All das ist interessant, aber die Zeit ist knapp. Wie sollen Studierende der (Zahn)medizin das Lernpensum bewältigen? Hierbei helfen die Autoren! Sie sichteten den gesamten Inhalt, trugen das Wichtigste zusammen und erklären es verständlich. In dieser 2. Auflage erläutern zahlreiche Abbildungen die komplizierten Vorgänge. Dank der Zusammenfassungen erhält man einen schnellen Überblick über die einzelnen Kapitel. Abbildungen, Aufzählungen und der Rote Faden sorgen zusätzlich für gute Übersichtlichkeit. Spaß beim Lernen: Die Physiologie von Lang/Lang macht's möglich!

Pluspunkte
► Das Wichtigste der Physiologie auf den Punkt gebracht ► Professor und Student arbeiten Hand in Hand an diesem Projekt. Ziel: Physiologie verständlich und übersichtlich dargestellt ► Das „Lernbuch" Basiswissen Physiologie zum Nachschlagewerk Physiologie des Menschen

Inhalt
Allgemeine und Zellphysiologie, Zellerregung.- Blut und Immunsystem.- Herz.-Kreislauf.- Atmung.- Arbeits- und Leistungsphysiologie.- Ernährung.- Energie- und Wärmehaushalt.- Wasser- und Elektrolythaushalt, Nierenfunktion.- Hormonale Regulation.- Sexualentwicklung und Reproduktionsphysiologie.- Funktionsprinzipien Nervensystem.- Muskulatur.- Vegetatives Nervensystem.- Motorik.- Somato-viszerale Sensorik.- Visuelles System.- Auditorisches System.- Chemische Sinne.- Integrative Leistungen ZNS.

Fachgebiet
Humanphysiologie

Zielgruppen
Studierende der Medizin und Zahnmedizin

Kategorie
Lehrbuch

Erscheint September 2007

2., völlig überarb. Aufl. 2007. Etwa 500 S. 200 Abb. in Farbe. (Springer-Lehrbuch) Brosch.

► approx. **€ (D) 29,95 | € (A) 30,80 | sFr 46,00**
ISBN 978-3-540-71401-9

R. Nieuwenhuys, **J. Voogd**, **C. v. Huijzen**

The Human Central Nervous System

This book has become a classic in its field. The outstanding illustrative material still represents its main feature: 375 halftones and line drawings comprise a complete and convenient atlas for the interpretation of neuroimaging studies. Yet the text of this fourth edition has been thoroughly revised and expanded. Fifteen newly written chapters introduce illustrations of the gross anatomy, the blood supply and the microstructure of the central nervous system and deal with the development, topography and functional anatomy of the spinal cord, brain stem and cerebellum, diencephalons and telencephalon.
This new edition provides a clear and reliable guide to the structural and functional organization of the human central nervous system and its broad basis in descriptive and experimental neuroscience. Intended primarily for students of medicine and psychology at all levels, the book is also informative reading for practicing neurobiologists.

Features
► Step by step through illustrated descriptions of the human central nervous system ► A clear and reliable guide of the structural and functional organization of the human central nervous system ► A complete and convenient atlas for the interpretation of neuroimaging studies ► A helpful tool in the education of medical students ► A readily accessible reference aid for scientists working in the fields of neuroscience

From the contents
Orientation. Development. Gross Anatomy. Blood Supply, Meninges and Cerebrospinal Fluid Circulation. Brain Slices. Topography of Spinal Cord, Brain Stem and Cerebellum. Diencephalon: Introduction and Epithalamus. Diencephalon: Dorsal thalamus.

Fields of interest
Neurosciences; Anatomy; Neurology

Target groups
Medical students; researchers, students and practitioners in the fields of neurology and other neurosciences

Type of publication
Graduate/Advanced undergraduate textbook

Due September 2007

Only available in print

4th rev. ed. 2007. Approx. 560 p. 391 illus. Softcover

► approx. * **€ (D) 53,45 | € (A) 54,95 | sFr 82,00**
ISBN 978-3-540-34684-5

M. Ochs, Fox Chase Cancer Center, Philadelphia, PA, USA (Ed.)

Gene Function Analysis

With the advent of high-throughput technologies following completion of the human genome project and similar projects in model organisms, the number of genes of interest has expanded and the traditional methods for gene function analysis cannot achieve the throughput necessary for large-scale exploration. "Gene Function Analysis" brings together a number of techniques that have developed recently for looking at gene function, including computational, biochemical and biological methods and protocols.

From the contents
Gene function inference from gene expression of deletion mutants.- Association analysis for large scale gene set data.- Estimating Gene Function with Least Squares Nonnegative Matrix Factorization.- From Promoter Analysis to Transcriptional Regulatory Network Prediction Using PAINT.- Prediction of Intrinsic Disorder and its Use in Functional Proteomics.- Sybil: Methods and Software for Multiple Genome Comparison and Visualization.- Estimating protein function using protein-protein relationships.- Bioinformatics tools for modeling transcription factor target genes and epigenetic changes.

Fields of interest
Human Genetics; Cell Biology; Bioinformatics

Target groups
Geneticists, molecular and cellular biologists, computational biologists, bioinformaticians and biotechnologists

Type of publication
Contributed volume

B. A. Teicher, Genzyme Corporation, Framingham, MA, USA; **L. M. Ellis**, MD Anderson Cancer Center, Houston, TX, USA (Eds.)

Antiangiogenic Agents in Cancer Therapy

Antiangiogenesis remains a dynamic and evolving field in oncology. New therapeutic targets continue to emerge followed by the rapid development of new therapeutic agents to be investigated in clinical trials. Optimizing the therapeutic potential of antiangiogenic agents in combination with the other therapies in the armamentarium to fight cancer will be an on-going challenge. This volume represents a compendium of scientific findings and approaches to the study of angiogenesis in cancer that will be useful for many years. The second edition of Antiangiogenic Agents in Cancer Therapy is intended to give a current perspective on the state of the art of angiogenensis and therapy directed at this process.

Features
► Current perspectives on state-of-the-art therapies ► Contains chapters specific to angiogenesis and antiangiogenic treatment of many malignant diseases

From the contents
The Vascular Endothelial Growth Factor Family and Its Receptors.- The Cycle Between Angiogenesis, Perfusion and Hypoxia In Tumors.- The Role of Integrins in Tumor Angiogenesis.

Fields of interest
Cancer Research; Oncology; Surgical Oncology

Target groups
Cancer researchers, medical oncologists, surgical oncologists, radiation oncologists, pharmacologists, radiotherapists

Type of publication
Contributed volume

K. Tseng, Rosalind Franklin University of Medicine, North Chicago, IL, USA; **M. Atzori**, University of Texas, Dallas, TX, USA (Eds.)

Monoaminergic Modulation of Cortical Excitability

Monoaminergic Modulation of Cortical Excitability serves as an integrative and comprehensive comparison of the diverse and complex modulatory action of dopamine, noradrenaline, and serotonin receptors in the cortex. The volume is organized into several sections offering a broad spectrum of opinions on how the monoamine systems affect cortical function from a cellular/sub-cellular level to a system level. The complexity of these interactions are discussed in light of recent data showing how disruption of these systems dramatically affects the memory formation and information processing in the cortex.

Features
► Reviews important cellular and synaptic mechanisms by which dopamine, noradrenaline and serotonin receptors regulate cortical excitability and plasticity during critical periods of postnatal development ► Discusses and establishes the link between mechanisms coupling these monoamine actions on biophysical properties of cortical neurons and synapses to its potential computational role in cortical functions

From the contents
Section I Anatomical Studies of the Monoaminergic System: The Discovery of Multiple Serotonin Receptor Subtypes: A Lesson from Molecular Cloning to Functional Expression.- Distribution of D1-like and D2 Receptors in the Monkey Brain: Implications for Cognitive function in Schizophrenia.

Fields of interest
Neurosciences; Neurobiology; Neurology

Target groups
Neurobiologists, psychiatrists, neurologists, psychologists, scientists in the field of drug discovery and development, clinicians, neuroanatomists

Type of publication
Contributed volume

HUMANA PRESS

Due September 2007

2007. Approx. 399 p. 73 illus. (Methods in Molecular Biology, Volume 408) Hardcover

► * **€ (D) 80,20 | € (A) 82,45 | sFr 123,00**
ISBN 978-1-58829-734-1

HUMANA PRESS

Due October 2007

2nd ed. 2007. Approx. 725 p. 86 illus. (Cancer Drug Discovery and Development) Hardcover

► * **€ (D) 144,40 | € (A) 148,45 | sFr 221,50**
ISBN 978-1-58829-870-6

Due September 2007

2007. Approx. 330 p. Hardcover

► approx. * **€ (D) 139,26 | € (A) 143,17 | sFr 213,50**
ISBN 978-0-387-72254-2

M. C. Vemuri, Reprogenetics, West Orange, NJ, USA (Ed.)

Stem Cell Assays

The scope for improving health care using stem cell therapies is thrilling, but has considerable technical challenges and methodological constraints that need to be addressed. Keeping with the tradition of Humana Press to bring these developments to the forefront in a timely manner, the book Stem Cell Assays aims to present scientific advances in stem cell methods for a wider use by novice and expert scientists, through the series of Methods in Molecular Biology.

From the contents
Derivation of Human Embryonic Stem Cells in xeno-free conditions.- Feeder Layer Free Culture System For Human Embryonic Stem Cells.- Digital Imaging of Stem Cells by Electron Microscopy.- A Controlled Cooling Protocol For Cryopreservation Of Human And Non-Human Primate Embryonic Stem Cells.- Cell Surface Markers In Human Embryonic Stem Cells.- Generation Of Monoclonal Antibody Library Against Human Embryonic Stem Cells.- Analytical Methods for Cancer Stem Cells.- Micro RNA Profiling: An Easy and Rapid Method to Screen and Characterize Stem Cell Populations.

Fields of interest
Human Genetics; Molecular Medicine; Cell Biology

Target groups
Stem cell biologists, molecular and cellular biologists

Type of publication
Contributed volume

Due September 2007

2007. Approx. 550 p. 64 illus. (Methods in Molecular Biology, Volume 407) Hardcover

► * **€ (D) 106,95 | € (A) 109,95 | sFr 164,00**
ISBN 978-1-58829-744-0

J. Asendorpf, Humboldt-Universität zu Berlin

Psychologie der Persönlichkeit

Persönlichkeitspsychologie - die Wissenschaft von der individuellen Besonderheit des Erlebens und Verhaltens. Was unterscheidet uns von anderen Menschen? Was macht uns aus? Jens Asendorpf stellt das Prüfungsfach fundiert vor: 7 Paradigmen der Persönlichkeitspsychologie, Persönlichkeitstypen, Persönlichkeitsstörungen und Entwicklung der Persönlichkeit, kulturvergleichende Persönlichkeitspsychologie und Geschlechtsunterschiede. Neben den Grundlagen der Persönlichkeitspsychologie oder Differentiellen Psychologie werden aber auch die Anwendungsbereiche des Faches anschaulich: Wer ist ein guter Partner? Wie kann interkulturelles Training aussehen? Wie geht man mit schüchternen Kindern um? Was ist soziale Kompetenz? Und für die Prüfungsvorbereitung: Merksätze, Studienboxen, Prüfungsfragen, deutsch-englisches Glossar. Neu in der 4. Auflage: das neurowissenschaftliche Paradigma der Persönlichkeitspsychologie. Mit interaktiver Lernwebsite im Netz unter www.lehrbuch-psychologie.de - für Studierende und Dozenten!

Pluspunkte
► Grundlagen der Persönlichkeitspsychologie - systematisch dargestellt ► Ideal zur Prüfungsvorbereitung: Hervorhebung wichtiger Studien, Merksätze, Übungsfragen mit Antworthinweisen ► Mit Lernwebsite: Deutsch-englisches Glossar, Lernkarten, Linksammlung, Materialien für Dozenten

Inhalt
1. Von der Alltagspsychologie zur Persönlichkeitspsychologie. 2. Sieben Paradigmen der Persönlichkeitspsychologie. 3. Methodologie und Methodik. 4. Persönlichkeitsbereiche. 5. Umwelt und Beziehung. 6. Persönlichkeitsentwicklung. 7. Geschlechtsunterschiede. 8. Persönlichkeit im Kulturvergleich. Nachwort: Unterschiede sind menschlich. Literatur.

Fachgebiete
Sozialpsychologie; Interkulturelle Psychologie;

Zielgruppen
Studierende der Psychologie

Kategorie
Lehrbuch

Erscheint September 2007

4., überarb. Aufl. 2007. Etwa 590 S. 141 Abb. (Springer-Lehrbuch) Geb.

► **€ (D) 39,95 | € (A) 41,07 | sFr 61,50**
ISBN 978-3-540-71684-6

R. Frank, Universität Gießen

Therapieziel Wohlbefinden

Ressourcen aktivieren in der Psychotherapie

Positiv denken? Positiv therapieren! Die „Positive Psychologie" und Wohlbefindensforschung ist in aller Munde: Erklärtes Ziel ist es, Wohlbefinden, Glück und Zufriedenheit, konstruktive Gedanken, Talente und Stärken bezüglich ihrer positiven Auswirkungen auf das eigene Leben und das anderer Menschen zu erforschen. Wie können diese Fähigkeiten, Stärken und Tugenden Wohlbefinden und ein erfülltes, produktives Leben auch angesichts von Stress und Lebensbeeinträchtigungen begünstigen? Und wie lässt sich Wohlbefinden im Rahmen einer Psychotherapie gezielt fördern? „Therapieziel Wohlbefinden" zeigt Therapieansätze auf, die sich ganz spezifisch auf Wohlbefinden und menschliche Stärken konzentrieren - sei es Ressourcenaktivierung, euthyme Therapie oder Achtsamkeitsbasierte Therapie. Es geht dabei nicht um Alternativen zur gängigen störungsorientierten Diagnostik, - aber im Mittelpunkt steht hier das (Wieder)erlangen von Wohlbefinden und von „gedeihlicher" Lebensgestaltung.

Pluspunkte
► Aktueller Trend: Positive Psychologie, Ressourcen, Stärken ► Praxisnaher Überblick über Therapieansätze zur Steigerung von Wohlbefinden ► Inkl. Steigerung von Wohlbefinden für Psychotherapeuten selbst, neurowissenschaftliche Erkenntnisse

Aus dem Inhalt
I. Den störungsorientierten Blick erweitern: Wohlbefinden fördern. II. Therapieansätze, die Wohlbefinden und menschliche Stärken fokussieren (Ressourcenorientierte Psychotherapie; Sinnzentrierte Psychotherapie; Euthyme Therapie u. Salutogenese; Narrative Ansätze; Achtsamkeitsbasierte Therapie).

Fachgebiete
Psychotherapie; Klinische Psychologie; Verhaltenstherapie

Zielgruppen
Psychologische und Ärztliche Psychotherapeuten, Kinder- und Jugendlichenpsychotherapeuten, Psychiater, Klinische Psychologen

Kategorie
Fachbuch

Erscheint Juli 2007

2007. Etwa 305 S. 9 Abb. Brosch.

► **€ (D) 34,95 | € (A) 35,93 | sFr 53,50**
ISBN 978-3-540-71621-1

J. Grünberger, Wien

Humaner Strafvollzug

Am Beispiel Sonderanstalt Mittersteig

Der Humane Strafvollzug verfolgt zwei wichtige Ziele. Einerseits soll der Vollzug den Unwert des der Verurteilung zugrundeliegenden Verhaltens aufzeigen, andererseits soll der Gefangene befähigt werden ein Leben in sozialer Verantwortung und ohne Straftaten zu führen also resozialisiert werden. In diesem Buch wird am Beispiel der Justizanstalt Wien-Mittersteig dieser Begriff und dessen Tragweite ausführlich erläutert. Der Autor, Prof. Grünberger, gilt als Pionier des humanen Strafvollzuges. Sein Einsatz, den Straftäter wissenschaftlich zu begreifen bzw. ihn aus der Distanz des Forschers zu betrachten und gleichzeitig dem Straftäter sein Verhalten begreifbar zu machen, einen Schritt auf diesen zuzugehen und ihm so den Schritt zur Resozialisierung zu ermöglichen werden in diesem Buch eindrucksvoll dargestellt. Zudem wird ein historischer Abriss zur Entwicklung des Straffvollzugs in Österreich geboten.

Aus dem Inhalt
Die Strafende Gesellschaft.- Kriminelle Verhaltensstörungen bei Morbus Wilson.- Kasuistik zur Brandstiftung.- Gruppenpsychotherapie mit Strafgefangenen.- Funktionelles Psychonsyndrom bei Freiheitsentzug.- Gruppenpsychotherapie mit schwierigen Strafgefangenen (Psychodiagnostische Untersuchung im MMPI).- Selbstverletzung und Selbstbeschädigung bei Strafgefangenen.- Die Malerei schwieriger Gefangener.- Gruppenpsychotherapie und Psychodrama bei kriminellen Psychopathen.

Fachgebiete
Psychologie, allgemein; Psychiatrie; Psychotherapie

Zielgruppen
Psychologen, Psychiater, interessierte Juristen

Kategorie
Aufsatzsammlung

SpringerWienNewYork

Erscheint September 2007

2007. Etwa 250 S. 25 Abb. Brosch.

► approx. **€ (D) 59,95 | € (A) 59,95 | sFr 92,00**
ISBN 978-3-211-71832-2

K. Jonas, Universität Zürich; **W. Stroebe**, Universität Utrecht, Niederlande; **M. R. Hewstone**, University of Oxford, UK (Hrsg.)

Sozialpsychologie

Eine Einführung

Übersetzt aus dem Englischen von: M. Reiss

Warum verhält sich jemand aggressiv? Wieso helfen viele Zuschauer bei einem Unfall nicht? Aus welchem Grund habe ich eine Prüfung gut bestanden? Soll ich aufhören zu rauchen, weil es meiner Gesundheit schadet? Wie bildet sich ein Gruppenanführer heraus? Das alles ist Sozialpsychologie! Das vielseitige Fachgebiet beschäftigt sich damit, wie Gedanken, Gefühle und Verhalten von Individuen durch die tatsächliche oder vorgestellte Anwesenheit anderer Menschen beeinflusst werden.- Zum Einstieg und für die Prüfung: „Aus der Forschung“ - mit klassischen Experimenten, „Anwendungsbezug“ - für das Praxiswissen, „Pioniere“ - wer verbirgt sich hinter „der Sozialpsychologie“? - So entsteht ein lebendiges Bild des Faches. Neu in der 5. Auflage: Die Kapitel wurden komplett neu verfasst, das jeweilige Fachgebiet wird von den führenden Experten beschrieben. Mit ausführlichem Kapitel zur Sozialen Kognition. Interaktive Lernwebsite: Prüfungsfragen, Multiple-Choice-Quiz, Lernkarten, deutsch-englisches Glossar, Linksammlung.

Pluspunkte
► Lesen und Lernen mit ausgefeilter Didaktik: Aus der Forschung, Pioniere, Sozialpsychologie im Alltag ► Deutsch-englisches Glossar ► Mit interaktiver Lernwebsite: Lernkarten, Quiz, Prüfungsfragen, Links

Fachgebiete
Sozialpsychologie; Gesundheitspsychologie; Arbeits-, Organisationspsychologie

Zielgruppen
Studierende Psychologie (Hauptfach); Studierende mit Nebenfach Psychologie der Fächer: Soziologie, BWL, VWL, Pädagogik

Kategorie
Lehrbuch

Erscheint September 2007

Nur gedruckte Ausgabe erhältlich

Englischsprachige Originalausgabe erscheint zeitgleich 2007 bei Blackwell Ltd.

5., vollst. überarb. u. erw. Aufl. 2007. Etwa 565 S. 140 Abb. (Springer-Lehrbuch) Geb.

► **€ (D) 49,95 | € (A) 51,35 | sFr 76,50**
ISBN 978-3-540-71632-7

H. Kellerman, Postgraduate Center for Mental Health, New York, NY, USA

The Psychoanalysis of Symptoms

The prevailing scientific view in the field of psychotherapy is, that with respect to psychological symptoms (phobias, anxiety states, panic reactions, intrusive thoughts, obsessions, compulsions, etc.), each symptom represents a separate lock that the therapist must decode. In Psychoanalysis of Symptoms, Dr. Henry Kellerman presents a set of principles (psychological/psychoanalytic axioms) underpin the curing of psychological/emotional symptoms through the use of four terms that comprise a psychological equation. Each of these terms is spelled-out, and then throughout the book, specific symptoms are identified, and in a step by step display, the reader can follow the cure of the symptom through the use of this new discovery - this new psychoanalytic key (the four terms of the symptom-cure).

Features
► Presents a “map” so that the reader can follow the cure-steps, and includes numerous cases with respect to this opportunity of tracing the cure of the symptom ► Identifies two categories of symptoms: those that can be cured through the talking method; and, those that need medication along with the talking method in order to be cured

From the contents
History of Symptom Psychology.- Underpinnings of the Symptom-Code.- The Symptom-Code and Its Application.- On Wishes, Symptoms, and Withdrawal.- Bottles under the Bed: A Case of Compulsion.- Holes: A Case of Body Delusion.- Symptoms Based upon Feelings of Rejection: Strangling, Sweats, and Death.- Gazing at Corpses: A Case of Morbid Compulsion.

Fields of interest
Clinical Psychology

Target groups
Clinical psychologists, psychology interns, upper-level graduate students in psychology and psychotherapy

Type of publication
Monograph

Due September 2007

2007. Approx. 250 p. Hardcover

► approx. *** € (D) 53,55 | € (A) 55,06 | sFr 82,00**
ISBN 978-0-387-72247-4

H. Klingemann, University of Zurich, Switzerland; **L. Carter-Sobell**, Nova Southeastern University, Fort Lauderdale, FL, USA (Eds.)

Promoting Self-Change from Addictive Behaviors

Practical Implications for Policy, Prevention, and Treatment

Many are addicted. Few are treated. Yet many who are not treated recover. Promoting Self-Change from Addictive Behaviors examines natural recovery as a clinical phenomenon, a field of inquiry, and a vital component of therapy. It also brings clinicians and counselors to a new understanding of addiction and recovery.
One of the few books on the topic, this updated edition offers alternatives to disease models of addiction by exploring personal pathways to recovery. Focusing on alcohol and drug problems, it provides a literature review of 40 years of studies on self-change with particular emphasis on the current decade and methodological issues (starting with how much or how little treatment constitutes “treatment”). The 24 experts keep the coverage consistently readable, and dozens of brief narratives from individuals who have successfully recovered from an addictive behavior without formal help lend valuable personal perspectives.

Features
► Contains “toolboxes” for practitioners (these are work sheets and protocols) ► Very few books addressing the concept of self-change from addictive or socially pathological states

From the contents
Introduction.- The phenomenon of self-change: overview and conceptual issues.- Self-change from alcohol and drug abuse: often cited classics.- Natural recovery or recovery without treatment from alcohol and drug problems as seen from survey data.

Fields of interest
Health Psychology; Clinical Psychology; Psychiatry

Target groups
Health psychologists, clinical psychologists, public health workers and policy makers, clinical social workers

Type of publication
Professional book

Due September 2007

Originally published with the title: Promoting Self-Change from Problem Substance Use: Practical Implications for Policy, Prevention and Treatment

2nd ed. 2007. XVI, 276 p. Hardcover

► * **€ (D) 67,36 | € (A) 69,25 | sFr 103,50**
ISBN 978-0-387-71286-4

V. Konstam, University of Massachusetts Boston, Wayland, MA, USA

Emerging and Young Adulthood

Multiple Perspectives, Diverse Narratives

The delayed onset of maturity from adolescence to adulthood is gaining the considerable attention of scholars, not to mention that of the parents and the young adults themselves. The chapters in this volume examine the experiences of numerous individuals in their 20s and early 30s – as well as parents and employers – the end result of which is a finely nuanced, research-based portrait of today's aging adolescents and the increasingly high hurdles they must jump to reach full-fledged adulthood.
The chapters of Emerging and Young Adulthood: Multiple Perspectives, Diverse Narratives: Feature scores of narratives told by research subjects in their own words; Represent a broad racial and ethnic cross-section of subjects; Include the experiences of working class individuals, a population that has been ignored in previous studies; Pinpoint specific clinical issues relating to this generation's behavioral patterns; Challenge much of the conventional wisdom about emerging and young adults.

Features
► Unique in its focus on the diverse perspectives of the major stakeholders, including the emerging adults as well as their parents and employers ► Effectively blends the academic and clinical aspects of this developmental period ► Representative vignettes, based on a qualitative research design, are provided throughout the book

Fields of interest
Child & School Psychology

Target groups
Advanced undergraduate and graduate-level students enrolled in human lifespan courses as well as those enrolled in counseling programs servicing this population will be audience targeted

Type of publication
Monograph

Due August 2007

2007. VIII, 184 p. (Advancing Responsible Adolescent Development) Hardcover

► approx. *** € (D) 45,31 | € (A) 46,59 | sFr 69,50**
ISBN 978-0-387-71032-7

J. Mendoza, Veterans Administration Medical Center, New Orleans, LA, USA; **A. L. Foundas**, Tulane Medical School, New Orleans, LA, USA

Clinical Neuroanatomy

A Neurobehavioral Approach

The collaboration of a clinical neuropsychologist and a behavioral neurologist, Clinical Neuroanatomy expands upon similar texts by offering an exceptionally extensive review of higher cortical – behavioral functions and their anatomical substrates. While a major text for students and clinicians in neuropsychology, it is highly relevant for behavioral and traditional neurologists, neuropsychiatrists, and others who have an interest in exploring the mysteries of brain-behavior relationships.
This book begins with a traditional review of the basic internal and external morphology, major nerve and fiber tracts, behavioral correlates, and clinical syndromes associated with spinal cord, brain stem, and cerebellum designed to reacquaint students and practicing clinicians with the functional anatomy of the subtentorial central nervous system.

Features
► Attempts to bridge the gap between the study of neuroanatomy and behavioral neurology/neuropsychology ► Initially derived from a series of lectures given to and, hence conceived as, a review of functional neuroanatomy for students of clinical neuropsychology

Contents
Preface.- The Spinal Cord and Descending Tracts.- The Somatosensory Systems.- The Cerebellum.- The Brain Stem.- The Cranial Nerves.- The Basal Ganglia.- The Thalamus.- The "Limbic System" / Hypothalamus.- The Cerebral Cortex.- The Cerebral Vascular System.- Neurochemical Transmitters.- Appendix.- Glossary.- Index.

Fields of interest
Neuropsychology; Psychiatry; Anatomy

Target groups
Clinical neuropsychologists and students of neuropsychology

Type of publication
Graduate/Advanced undergraduate textbook

Due August 2007

2007. Approx. 1050 p. 331 illus. Hardcover

► *** € (D) 82,34 | € (A) 84,65 | sFr 126,50**
ISBN 978-0-387-36600-5

M. Semrud-Clikeman, Michigan State University, Lansing, MI, USA

Social Competence in Children

Social competence is essential to the mental and physical well-being of all humans, no matter their age. Yet as many as one in ten children has trouble keeping friends or even making friends. In Social Competence in Children, readers will discover a developmental view of social functioning in children at different stages, with an emphasis on clinical conditions that may confound this development.
At the outset, the author provides detailed information on theories of social competence and the contexts in which core skills (e.g., appropriate comments, reading verbal cues) are learned. Later chapters address specific challenges to competence and feature case examples illustrating typical patterns of deficits and presenting the latest data on the topic, including: assessment practices; parenting and family issues; social competence problems specific to children and adolescents in this population; effective and promising interventions; treatment guidelines; and areas deserving future study.

Features
► Organized to provide a developmental framework for our understanding of social competence at various ages ► Chapters are based in transactional theory in that the environment plays a role in the development of these skills as well as the biological contributions the child brings to his/her experiences

From the contents
Social Competence in Children.- Development of Social Competence in Children.- Assessment of Social Competence in Children.- Social Competence in Children with Attention Deficit Hyperactivity Disorder.- Social Competence in Children with Learning Disabilities.

Fields of interest
Child & School Psychology; Neuropsychology; Clinical Psychology

Target groups
Practitioners in school and child psychology, social work, counseling, special education, clinical neuropsychologists

Type of publication
Monograph

Due September 2007

2007. Approx. 450 p. Hardcover

► *** € (D) 50,24 | € (A) 51,65 | sFr 77,00**
ISBN 978-0-387-71365-6

S. M. Sheridan, University of Nebraska, Lincoln, NE, USA; **T. R. Kratochwill**, University of Wisconsin, Madison, WI, USA

Conjoint Behavioral Consultation

Promoting Family-School Connections and Interventions

Conjoint behavioral consultation (CBC) strengthens collaboration between children's most critical learning environments – school and home – for improved academic, behavioral, and social-emotional skills. The reader-friendly, 2nd edition of Conjoint Behavioral Consultation: Promoting Family-School Connections and Interventions offers innovative applications of CBC as an ecological, evidence-based approach. In this new edition, the authors combine best practices in consultation and problem-solving for interventions that promote and support children's potential, teachers' educational mission, and family members' unique strengths.

Features
► A step-by-step framework for developing and maintaining family/school partnerships takes readers from diagnostic interviews through plan evaluation ► Chapters analyze core interpersonal skills, including building trust, conflict management, and effective communication

Contents
Preface.- Family-School Partnerships in Prevention and Intervention.- Definitional and Procedural Characteristics of Conjoint Behavioral Consultation.- CBC In Practice: Promoting Positive Family-School Relationships.- CBC in Practice: Working with Diverse Families.- CBC in Unique Practice Contexts.- Research on Conjoint Behavioral Consultation.- References.- Appendices.

Fields of interest
Child & School Psychology; Education (general); Counseling

Target groups
Child psychologists

Type of publication
Graduate/Advanced undergraduate textbook

Due August 2007

2nd ed. 2007. XVIII, 286 p. 17 illus. With CD-ROM. Hardcover

► * **€ (D) 42,75 | € (A) 43,95 | sFr 65,50**
ISBN 978-0-387-71247-5

F. B. Tyler, University of Maryland, College Park, MD, USA

Developing Prosocial Communities Across Cultures

Communities are basic vital social units that provide the contexts in which people learn to live together to their mutual benefit. They are crucial to providing a richer and more fulfilling framework than we currently have for understanding and improving the quality of life for individuals and groups alike. The author defines what exactly prosocial communities are, identifying its elements and relevant interrelationships, and providing the available evidence in support of those conclusions. This work shows why a prosocial community is essential to the accomplishment of the goals of community psychology and its related fields, as well as how to create such communities.

Features
► Incorporates a multicultural, multiethnic approach with documentary research and programmatic support for its efficacy ► Identifies and demonstrates the nature of the links between community and individual functioning in ways that aid readers in understanding them ► Provides examples to enable people seeking community changes to know how to effectively translate these ideas into practice

Contents
Preface.- Backgrounds and Background Issues.- Psychosocial Integration: The Theoretical Framework.- The Current Situation: Psychologists' Approaches to Community Change.- The Prosocial Effect of Changing One Aspect of a Community.- The Prosocial Effect of Coordinating Change in Two Aspects of a Community.- A Guide for Establishing Prosocial Communities.- Questscope: A Comprehensive Prosocial Community Program.- References.- Index.

Fields of interest
Community & Environmental Psychology; Clinical Psychology

Target groups
Community psychologists, social psychologists

Type of publication
Monograph

Due October 2007

2007. Approx. 170 p. Hardcover

► * **€ (D) 58,80 | € (A) 60,45 | sFr 90,50**
ISBN 978-0-387-71484-4

J. P. Wilson, Cleveland State University, Cleveland, OH, USA; **C. C. So-Kum Tang**, National University of Singapore (Eds.)

Cross-Cultural Assessment of Psychological Trauma and PTSD

Recent advances in trauma treatment, coupled with ongoing traumatic world events, point to a critical need for global standards in assessment. But despite the best intentions of Western psychology, one model does not fit all cultures. Cross-Cultural Assessment of Psychological Trauma and PTSD addresses key issues in the field to help fill this knowledge gap. Focusing equally on theoretical concepts, culturally valid assessment methods, and cultural adaptation in trauma and resilience, 29 experts present the cutting edge of research and strategies. Extended case examples (including West Africans in Austria, Hmong in the U.S., and Aboriginal people in Australia) illustrate an informative range of symptom profiles, comorbid conditions, and coping skills, as well as secondary traumas that can occur in asylum seekers. Professional concerns are also highlighted, from training and competency issues to the challenges of translating assessment into treatment.

Features
► Approaches the issue of PTSD from a global viewpoint ► Emphasizes the needs for global standardization of methods, procedures, and techniques of the scientific assessment of PTSD and psychological injuries

From the contents
The Lens of Culture: Theoretical and Conceptual Perspectives in the Assessment of Psychologicla Trauma and PTSD.- Ethnomedically Alternative Understandings for International Psychosocial Efforts in Disaster and Trauma.

Fields of interest
Cross Cultural Psychology; Clinical Psychology; Stress and Coping

Target groups
Mental health professionals, clinical and counseling psychologists, social workers

Type of publication
Contributed volume

Due August 2007

2007. Approx. 410 p. (International and Cultural Psychology) Hardcover

► * **€ (D) 67,36 | € (A) 69,25 | sFr 103,50**
ISBN 978-0-387-70989-5

Edizioni della Normale

Birkhäuser übernimmt ab April 2007 den exklusiven weltweiten Vertrieb der Veröffentlichungen des renommierten Studien- und Forschungsinstituts Scuola Normale Superiore in Pisa, Italien.

- Fachbereiche: Mathematik, Physik
- Sprache: Englisch
- Breites Angebot an Lehrbüchern
- Günstige Preise

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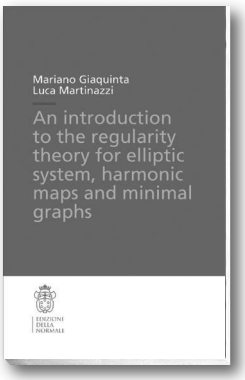
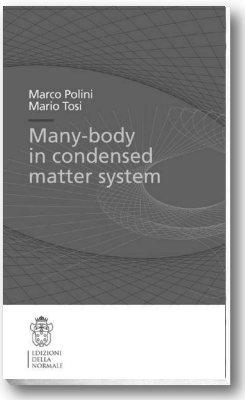
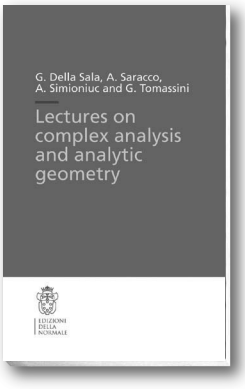






Series in "Edizioni della Normale"

Colloquia
The volumes of this series reflect lectures held at the "Colloquio De Giorgi" which regularly takes place at the Scuola Normale Superiore in Pisa. The Colloquia address a general mathematical audience, particularly attracting advanced undergraduate and graduate students.

CRM-Series
The Ennio De Giorgi Mathematical Research Center in Pisa, Italy, was established in 2001 and organizes research periods focusing on specific fields of current interest, including pure mathematics as well as applications in the natural and social sciences like physics, biology, finance and economics. The CRM series publishes volumes originating from these research periods, thus advancing particular areas of mathematics and their application to problems in the industrial and technological arena.

Lecture Notes
This series publishes polished notes dealing with topics of current research and originating from lectures and seminars held at the Scuola Normale Superiore in Pisa.

Monographs

Selections
The volumes of this series arise from conferences and symposiums and focuse on a particular topic of current research in mathematics or physics.

Thesis
This series gathers a selection of outstanding Ph.D. theses defended at the Scuola Normale Superiore since 1992.

A. Aldashev, Kirghiz Institute of Cardiology, Bishkek, Kyrgyz Republic; **R. Naeije**, Free University of Brussels, Belgium (Eds.)

Problems of High Altitude Medicine and Biology

This book is directly derived from a NATO-sponsored international meeting on problems of high altitude medicine and biology, which was held on the shores of lake of Issyk-Kul, in Kyrghyzstan, in June 5-6, 2006.
It was a surprise for several European and North and South-American scientists to discover the still on-going momentum high level altitude physiology research, which was extremely active but insufficiently acknowledged in this remote Central Asian country at the time of the USSR. Accordingly, the setting was perfect for numerous positive scientific interactions, exchanges of ideas, and structuring of new international collaborations. Overall, the meeting was an ideal mix of cell biology, integrative physiology and medical applications. Hypoxia is and remains a major public health issue in many populated mountainous areas all over the world. We are sure that this book will be become a long-lasting essential reference.

Features
► Current research on molecular pathways affected by hypoxic exposure ► Pathophysiological understanding of the adaptation of the human body to oxygen deprivation ► High altitude as a public health problem ► Prevention of high altitude induced or associated diseases ► Treatment of high altitude illnesses

Fields of interest
Physiological, Cellular and Medical Topics; Sports Medicine; Pneumology/Respiratory System

Target groups
Fundamental scientists interested in the effects of hypoxia; medical doctors in charge of high altitude related problems

Type of publication
Proceedings

Due July 2007

2007. X, 260 p. (NATO Science for Peace and Security Series / NATO Science for Peace and Security Series A: Chemistry and Biology) Hardcover

► * **€ (D) 149,75 | € (A) 153,95 | sFr 229,50**
ISBN 978-1-4020-6298-8

Also available as softcover

► * **€ (D) 64,15 | € (A) 65,95 | sFr 98,50**
ISBN 978-1-4020-6299-5

H. Ammari, Palaiseau, France; **H. Kang**, Seoul National University, South Korea

Polarization and Moment Tensors

With Applications to Inverse Problems and Effective Medium Theory

This book presents important recent developments in mathematical and computational methods used in impedance imaging and the theory of composite materials. The methods involved come from various areas of pure and applied mathematics, such as potential theory, PDEs, complex analysis, and numerical methods. The unifying thread in this book is the use of generalized polarization and moment tensors.
The main approach is based on modern layer potential techniques. By augmenting the theory with interesting practical examples and numerical illustrations, the exposition brings simplicity to the advanced material. An introductory chapter covers the necessary basics.
With its extensive list of references and open problems, the book should enhance accessibility to specialized literature and stimulate progress in the fields of impedance imaging and composite materials.

Features
► Presents important developments in mathematical and computational methods used in impedance imaging and the theory of composite materials ► Theory is augmented by interesting practical examples and numerical illustrations
► Open problems at the end of each chapter
► Extensive bibliography enhances accessibility to specialized literature

From the contents
Introduction.- Layer Potentials and Transmission Problems.- Uniqueness for Inverse Conductivity Problems.- Generalized Isotropic and Anisotropic Polarization Tensors.

Fields of interest
Applications of Mathematics; Biomedical Engineering; Potential Theory

Target groups
Graduate students, researchers

Type of publication
Monograph

Due August 2007

2007. XVI, 328 p. 25 illus. (Applied Mathematical Sciences, Volume 162) Hardcover

► approx. *** € (D) 74,15 | € (A) 76,23 | sFr 113,50**
ISBN 978-0-387-71565-0

T. Andreescu, University of Texas at Dallas, Richardson, TX, USA; **C. Mortici**, University of Targoviste, Romania

Mathematical Bridges

Building bridges between classical results and contemporary nonstandard problems, Mathematical Bridges embraces important topics in analysis and algebra from a problem-solving perspective. Blending old and new techniques, tactics and strategies used in solving challenging mathematical problems, readers will discover numerous genuine mathematical gems throughout that will heighten their appreciation of the inherent beauty of mathematics.
Most of the problems are original to the authors and are intertwined in a well-motivated exposition driven by representative examples. The book is structured to assist the reader in formulating and proving conjectures, as well as devising solutions to important mathematical problems by making connections between various concepts and ideas from different areas of mathematics.

Features
► Builds bridges between classical results and contemporary nonstandard problems
► Embraces important topics in calculus, linear and abstract algebra, analysis and differential equations from a problem-solving perspective
► Makes connections between various concepts from different areas of mathematics ► Students from high school juniors to college seniors interested in math and mathematics competitions must have this book

From the contents
Preface.- Glossary of Notation.- Cardinality.- Density.- Lemma of the Closed Intervals.- Sequences Given by Implicit Relations.- Recurrence Relations.- Complementary Sequences.

Fields of interest
Algebra; Analysis; Mathematics, general

Target groups
Instructors and educators teaching problem-solving courses or organizing mathematics clubs; mathematics students from high school juniors to college seniors; students desiring to hone and develop their mathematical skills

Type of publication
Undergraduate textbook

BIRKHÄUSER

Due September 2007

2007. Approx. 300 p. 20 illus. Softcover

► approx. *** € (D) 41,20 | € (A) 42,35 | sFr 63,50**
ISBN 978-0-8176-4394-2

J. Bergh, Chalmers Tekniska Högskola, Göteborg, Schweden; **F. Ekstedt**, **M. Lindberg**

Wavelets

Übersetzt aus dem Deutschen von: M. Stern

Dieses Buch ist eine „Interpolation" zwischen einer Monographie und einem Handbuch. Angesprochen sind Leser, die sich mit den grundlegenden mathematischen Ideen und Techniken der Wavelets vertraut machen möchten, sich aber gleichzeitig auch einen Überblick darüber verschaffen wollen, wie die Theorie derzeit angewendet wird. Das Buch ist für Leser mit den Vorkenntnissen höherer Studienjahre gedacht: vorausgesetzt werden Kenntnisse über Anwendungen der linearen Algebra, der Fourierreihen und der Fourierschen Integrale. Zum besseren Verständnis der Theorie sind aber auch weitere Kenntnisse wünschenswert. Eine allzu übertriebene mathematische Präzision stellt jedoch zu starke Anforderungen an die Leser, an die sich dieses Buch richtet. Die Lösung dieses Dilemmas ist ein Kompromiss: Die Autoren verzichten auf einige mathematische Details und verweisen stattdessen auf weiterführende Darstellungen. Ziel des Buches ist, die Schlüsselideen und die grundlegenden Techniken in den Mittelpunkt zu rücken.

Pluspunkte
► Eignet sich besonders als eine mathematisch korrekte, schnelle Einführung ins Thema
► Betonung auf den Anwendungen in der Signalverarbeitung

Aus dem Inhalt
Einleitung.- Teil I Theorie. 2 Signalverarbeitung. 3 Filterbänke. 4 Multi-Skalen-Analyse. 5 Wavelets in höheren Dimensionen. 6 Das Lifting-Schema. 7 Die kontinuierliche Wavelet-Transformation.- Teil II Anwendungen. 8 Wavelet-Basen: Beispiele.

Fachgebiete
Angewandte Mathematik; Analysis; Wissenschaftliches Rechnen

Zielgruppen
Studenten der Mathematik, Ingenieurwissenschaften, Informatik, Physik

Kategorie
Lehrbuch

Erscheint September 2007

Schwedische Originalversion erschienen bei Studentlitteratur, Lund, Sweden, 1999

2007. Etwa 230 S. Brosch.

► approx. **€ (D) 39,95 | € (A) 41,07 | sFr 61,50**
ISBN 978-3-540-49011-1

V. Berinde, North University of Baia Mare, Romania

Iterative Approximation of Fixed Points

The aim of this monograph is to give a unified introductory treatment of the most important iterative methods for constructing fixed points of nonlinear contractive type mappings. It summarizes the most significant contributions in the area by presenting, for each iterative method considered (Picard iteration, Krasnoselskij iteration, Mann iteration, Ishikawa iteration etc.), some of the most relevant, interesting, representative and actual convergence theorems. Applications to the solution of nonlinear operator equations as well as the appropriate error analysis of the main iterative methods, are also presented. Due to the explosive number of research papers on the topic (in the last 15 years only, more than one thousand articles related to the subject were published), it was felt that such a monograph was imperatively necessary. The volume is useful for authors, editors, and reviewers. It introduces concrete criteria for evaluating and judging the plethora of published papers.

Contents
Preface to the First Edition.- Preface to the Second Edition.- Introduction.- 1. Pre-requisites of fixed points.- 2. The Picard iteration.- 3. The Krasnoselskij iteration.- 4. The Mann iteration.- 5. The Ishikawa iteration.- 6. Other fixed point iteration procedures.- 7. Stability of fixed point iteration procedures.- 8. Iterative solution of nonlinear operator equations.- 9. Error analysis of fixed point iteration procedures.- References.- List of symbols.- Authors Index.- Subject Index.

Fields of interest
Operator Theory; Numerical Analysis; Topology

Target groups
Researchers and graduate students

Type of publication
Monograph

Due June 2007

Originally published by Editura Efemeride, Baia Mare, Romania, 2002

2nd rev. and enlarged ed. 2007. XVI, 326 p. (Lecture Notes in Mathematics, Volume 1912) Softcover

► * **€ (D) 53,45 | € (A) 54,95 | sFr 82,00**
ISBN 978-3-540-72233-5

Y. Biollay, **A. Chaabouni**, **J. Stubbe**, **A. Quarteroni**, EPFL, Lausanne, Switzerland (Ed.)

Matematica: si parte!

A cura di Alfio Quarteroni

Questo manuale è stato realizzato per permettere ai futuri studenti di Ingegneria di affrontare con successo i propri studi. Vengono presentati alcuni concetti di base in matematica, generalmente già appresi prima dell'ingresso all'Università. Si è constatato che non tutti gli studenti hanno una padronanza completa di questo insieme di nozioni fondamentali: perciò il presente manuale fornisce un utile supporto, sotto forma sia di esercizi sia di nozioni teoriche. Il futuro studente potrà scegliere i capitoli che più lo interessano, al fine di verificare la propria capacità a risolvere problemi quali i „Problemi di revisione", ricorrendo alle proprie abilità di ragionamento ed alle proprie conoscenze.

Features
► Questo manuale è destinato ai futuri studenti di Ingegneria , per permettere loro di individuare e colmare eventuali lacune prima di iniziare i propri studi universitari

Fields of interest
Matematica, generale

Target groups
Scritto per i futuri studenti di ingegneria

Type of publication
Libro di testo introduttivo

Pubblicazione prevista per il mese di settembre 2007

2007. Ca. 200 pagg. Rilegatura a spirale

► approx. * **€ (D) 18,52 | € (A) 19,04 | sFr 28,50**
ISBN 978-88-470-0675-1

K. Boulabiar, Carthago University, Tunesia;
G. Buskes, University of Mississippi, Oxford, MS, USA;
A. Triki, Tunis University, Tunesia (Eds.)

Positivity

This book contains nine well-organized survey articles dealing with topics around positivity, with a strong emphasis on functional analysis. It provides insight into more classical areas like spaces of continuous functions, f-algebras, and integral operators; also, modern areas are touched, such as vector measures, operator spaces, ordered tensor products, and non-commutative Banach function spaces.

Features
► Brings together for the first time a wide variety of directions of research in positivity ► Provides up-to-date information on topics of current interest in positivity

Fields of interest
Analysis; Order, Lattices, Ordered Algebraic Structures; Functional Analysis

Target groups
Postgraduates and researchers in functional analysis, topology, operator algebras, lattice-ordered groups and frames

Type of publication
Collection of essays

BIRKHÄUSER

Due September 2007

2007. Approx. 350 p. (Trends in Mathematics) Hardcover

► * **€ (D) 105,93 | € (A) 108,90 | sFr 169,00**
ISBN 978-3-7643-8477-7

G. Ciuprina, **D. Ioan**, Politechnic University of Bucharest, Romania (Eds.)

Scientific Computing in Electrical Engineering

This book is a collection of selected papers presented at the last Scientific Computing in Electrical Engineering (SCEE) Conference, held in Sinaia, Romania, in 2006. The series of SCEE conferences aims at addressing mathematical problems which have a relevance to industry, with an emphasis on modeling and numerical simulation of electronic circuits, electromagnetic fields but also coupled problems and general mathematical and computational methods. This book is particularly important for engineers, physicists and mathematicians who want to know the state of the art with respect to scientific challenges arising from problems of interest for industry.

Features
► High-level book on industrial mathematics

Fields of interest
Scientific Computing; Electronic and Computer Engineering; Electromagnetism, Optics and Lasers

Target groups
Electrical engineers, mathematicians, physicists, and computer scientists

Type of publication
Professional book

Due June 2007

2007. XXII, 486 p. With color appendix. (Mathematics in Industry / The European Consortium for Mathematics in Industry, Volume 11) Hardcover

► * **€ (D) 96,25 | € (A) 98,95 | sFr 147,50**
ISBN 978-3-540-71979-3

R. Dana, Université de Paris IX Dauphine, Paris, France; **M. Jeanblanc**, Université d'Evry, France

Financial Markets in Continuous Time

Translated from the French by: A. Kennedy

In modern financial practice, asset prices are modelled by means of stochastic processes, and continuous-time stochastic calculus thus plays a central role in financial modelling. This approach has its roots in the foundational work of the Nobel laureates Black, Scholes and Merton. Asset prices are further assumed to be rationalizable, that is, determined by equality of demand and supply on some market. This approach has its roots in the foundational work on General Equilibrium of the Nobel laureates Arrow and Debreu and in the work of McKenzie. This book has four parts. The first brings together a number of results from discrete-time models. The second develops stochastic continuous-time models for the valuation of financial assets (the Black-Scholes formula and its extensions), for optimal portfolio and consumption choice, and for obtaining the yield curve and pricing interest rate products.

Features
► Explains key financial concepts, mathematical tools and theories of mathematical finance ► Range of topics covered is very broad for an introductory text ► Contains two separate appendices on Brownian motion and on numerical methods

From the contents
The Discrete Case.- Dynamic Models in Discrete Time.- The Black-Scholes Formula.- Portfolios Optimizing Wealth and Consumption.- The Yield Curve.- Equilibrium of Financial Markets in Discrete Time.

Fields of interest
Quantitative Finance; Probability Theory and Stochastic Processes

Target groups
Graduate students, undergraduate students and researchers

Type of publication
Graduate/Advanced undergraduate textbook

Due June 2007

Original French edition published by Economica, Paris, 1998

1st ed. 2003. 2nd printing 2007. XI, 324 p. (Springer Finance) Softcover

► * **€ (D) 42,75 | € (A) 43,95 | sFr 65,50**
ISBN 978-3-540-71149-0

A. Desolneux, UFR Math-Info, Paris, France;
L. Moisan, **J. Morel**, École Normale Supérieure Centre de Mathématiques et de leurs Applications, Cachan, France

From Gestalt Theory to Image Analysis

A Probabilistic Approach

This book introduces the reader to a recent theory in Computer Vision yielding elementary techniques to analyse digital images. These techniques are inspired from and are a mathematical formalization of the Gestalt theory. Gestalt theory, which had never been formalized is a rigorous realm of vision psychology developped between 1923 and 1975. From the mathematical viewpoint the closest field to it is stochastic geometry, involving basic probability and statistics, in the context of image analysis. The authors maintain a public software, MegaWave, containing implementations of most of the image analysis techniques developped in the book.
The book is intended for researchers and engineers. It is mathematically self-contained and requires only the basic notions in probability and calculus.

Features
► Over 130 illustrations throughout the text
► Detailed exercises at the end of each chapter
► Large number of examples, of specific images on which the theory is tested are included

Contents
Introduction.- Gestalt theory.- The Helmholtz principle.- Estimating the binomial tail.- Alignments in digital images.- Maximal meaningfulness and the exclusion principle.- Modes of a histogram.- Vanishing points.- Contrasted Boundaries.- Variational or meaningful boundaries?.- Clusters.- Binocular grouping.- A psychophysical study of the Helmholtz principle.- Back to the gestalt programme.- Other theories, discussion.

Fields of interest
Partial Differential Equations; Signal Processing; Image Processing

Target groups
Advanced undergraduate and graduate students, researchers

Type of publication
Graduate/Advanced undergraduate textbook

Due August 2007

2007. Approx. 250 p. 130 illus. (Interdisciplinary Applied Mathematics, Volume 35) Hardcover

► approx. *** € (D) 41,20 | € (A) 42,35 | sFr 63,50**
ISBN 978-0-387-72635-9

E. DiBenedetto, Vanderbilt University, Nashville, TN, USA

Partial Differential Equations

This self-contained text offers an elementary introduction to partial differential equations (pdes), primarily focusing on linear equations, but also providing some perspective on nonlinear equations. The classical treatment is mathematically rigorous with a generally theoretical layout, though indications to some of the physical origins of pdes are made throughout.
Large parts of this revised second edition have been streamlined and rewritten to incorporate years of classroom feedback, correct errors, and improve clarity. Most of the necessary background material has been incorporated into the complements and certain nonessential topics have been given reduced attention (noticeably, numerical methods) to improve the flow of presentation.

Features
► Self-contained, elementary introduction to pdes, primarily from a classical perspective
► This 2nd ed. has been streamlined and rewritten to incorporate years of classroom feedback, correct errors, and improve clarity ► Examples, problems and solutions enhance understanding and solidify comprehension ► Can serve as a textbook for advanced undergraduates and graduate students, as well as an excellent reference

Contents
Preface to the Second Edition.- Preface to the First Edition.- Preliminaries.- Quasi-Linear Equations.- The LaPlace Equation.- Boundary Value Problems by Double Layer Potentials.- Integral Equations and Eigenvalue Problems.- The Heat Equation.- The Wave Equation.- Quasi-Linear Equations of First Order.- Non-Linear Equations of First Order.- References.- Index.

Fields of interest
Partial Differential Equations; Fourier Analysis; Difference and Functional Equations

Target groups
Advanced undergraduates, graduate students, researchers in mathematics, mathematical physics, engineering, and the natural sciences

Type of publication
Graduate/Advanced undergraduate textbook

BIRKHÄUSER

Due September 2007

2nd ed. 2007. Approx. 350 p. 10 illus. (Cornerstones) Hardcover

► approx. *** € (D) 51,36 | € (A) 52,80 | sFr 78,00**
ISBN 978-0-8176-4551-9

W. Ewald, **W. Sieg**, **U. Majer** (Eds.)

David Hilbert's Lectures on the Foundations of Arithmetic and Logic, 1917-1933

The bulk of this volume consists of six sets of notes for lectures Hilbert gave (often in collaboration with Bernays) on the foundations of mathematics between 1917 and the early 1930s. The notes detail the increasing dominance of the metamathematical perspective in Hilbert's treatment, i.e., the development of modern mathematical logic, the evolution of proof theory, and the parallel emergence of Hilbert's finitist standpoint. The notes are mostly very polished expositions; e.g., the 1917-18 lectures are in effect a first draft of Hilbert and Ackermann's Grundzüge der theoretischen Logik (1928), reprinted in this Volume. They are thus essential for understanding the development of modern mathematical logic leading up to Hilbert and Bernays's Grundlagen der Mathematik (1934, 1938). Also included is a complete version of Bernay's Habilitationschrift of 1918, only partially published in 1926.

Features
► The six volume collection makes available for the first time the German text of the most important of David Hilbert's unpublished lectures on the foundations of mathematics and physics, together with a scholarly commentary in English

From the contents
Introduction.- Hilbert's Lectures on Principles of Mathematics from 1917-18.- Hilbert's Lectures on the Logical Calculus from 1920.- Chapter 3: Hilbert's Lectures on Problems of Mathematical Logic from 1920.- Hilbert's Lectures on Foundations of Mathematics from 1921-22.- Hilbert's Lectures on Logical Foundations of Mathematics from 1922-23.- Hilbert's Lectures on the Infinite from 1924-25.- Hilbert's Typescript on the Foundations of Thought from c. 1925.

Fields of interest
History of Mathematics; Mathematical Logic and Foundations

Target groups
Philosophers and historians of logic, mathematics, foundations, proof theory and researchers in those fields

Type of publication
Collected works

Due January 2008

2008. Approx. 600 p. Hardcover

► * **€ (D) 96,25 | € (A) 98,95 | sFr 147,50**
ISBN 978-3-540-20578-4

G. Giuseppe, Università di Milano, Italy

Modelli Matematici in Biologia

Si tratta di un libro di testo per i corsi di Matematica delle lauree specialistiche della classe di Biologia e Scienze Naturali. Sarà di interesse anche per studenti dello stesso livello in Scienze Ambientali ed anche di Medicina. Potrebbe essere usato (in particolare i suoi capitoli piu' avanzati, segnatamente quelli che trattano la teoria dell'evoluzione) anche come testo complementare per corsi di Biomatematica.

Fields of interest
Biologia matematica in generale; Genetica e dinamiche della popolazione; Argomenti di fisiologia, citologia e medicina

Target groups
Studenti e laureandi, laureati, biblioteche

Type of publication
Libro di testo avanzato

Pubblicazione prevista per il mese di giugno 2007

2007. Ca. 300 pagg. Brossura

► approx. *** € (D) 25,67 | € (A) 26,39 | sFr 39,50**
ISBN 978-88-470-0691-1

M. Griebel, University of Bonn, Germany; **S. Knapek**, TWS Partners, Munich, Germany; **G. Zumbusch**, University of Jena, Germany

Numerical Simulation in Molecular Dynamics

Numerics, Algorithms, Parallelization, Applications

Translated by: B. Hientzsch

Particle models play an important role in many applications in physics, chemistry and biology. They can be studied on the computer with the help of molecular dynamics simulations. This book presents in detail both the necessary numerical methods and techniques (linked-cell method, SPME-method, tree codes, multipol technique) and the theoretical background and foundations. It illustrates the aspects modelling, discretization, algorithms and their parallel implementation with MPI on computer systems with distributed memory. Furthermore, detailed explanations were given to the different steps of numerical simulation and code examples are provided. With the description of the algorithms and the presentation of the results of various simulations from the areas material science, nanotechnology, biochemistry and astrophysics, the reader of this book will be able to write his own programms for molecular dynamics step by step and to run successful experiments.

Features
► One of the first textbooks in the highly-relevant topic (material science, molecular modelling, drug design, nanotechnology)

Fields of interest
Scientific Computing; Numerical Analysis; Math. Applications in Chemistry

Target groups
Graduate students and researchers in computational science, biosciences, chemistry, engineering, physics and pharmacology

Type of publication
Graduate/Advanced undergraduate textbook

Due June 2007

2007. XII, 470 p. 180 illus. (Texts in Computational Science and Engineering, Volume 5) Hardcover

► *** € (D) 42,75 | € (A) 43,95 | sFr 65,50**
ISBN 978-3-540-68094-9

H. Hauser, **H. Hagen**, TU Kaiserslautern, Germany; **H. Theisel** (Eds.)

Topology-based Methods in Visualization

Enabling insight into large and complex datasets is a prevalent theme in visualization research for which different approaches are pursued. Topology-based methods are built on the idea of abstracting characteristic structures such as the topological skeleton from the data and to construct the visualizations accordingly. There are currently new demands for and renewed interest in topology-based visualization solutions. This book presents 13 peer-reviewed papers as written results from the 2005 workshop "Topology-Based Methods in Visualization" that was initiated to enable additional stimulation in this field. It contains a longer chapter dedicated to a survey of the state-of-the-art, as well as a great deal of original work by leading experts that has not been published before, spanning both theory and applications. It captures key concepts and novel ideas and serves as an overview of current trends in topology-based visualization research.

Features
► Book on core topic in visualization

From the contents
Topology-Based Flow Visualization, The State of the Art - Robert S. Laramee, Helwig Hauser, Lingxiao Zhao, Frits H. Post.- Topology-guided Visualization of Constrained Vector Fields - Ronald Peikert, Filip Sadlo.- Scale-Space Tracking of Critical Points in 3D Vector Fields - Thomas Klein, Thomas Ertl.- Feature Flow Fields in Out-of-Core Settings - Tino Weinkauf, Holger Theisel, Hans-Christian Hege, Hans-Peter Seidel.- Streamline Predicates as Flow Topology Generalization - Tobias Salzbrunn, Gerik Scheuermann.- Topology-based versus Feature-based Flow Analysis – Challenges and an Application - Helwig Hauser, Robert S. Laramee, Helmut Doleisch.

Fields of interest
Visualization; Computer Graphics; Topology

Target groups
Graduate students, researchers and professionals in visualization, mathematics and computer science

Type of publication
Proceedings

Due June 2007

2007. X, 222 p. (Mathematics and Visualization) Hardcover

► *** € (D) 85,55 | € (A) 87,95 | sFr 131,00**
ISBN 978-3-540-70822-3

D. Jungnickel, University of Augsburg, Germany

Graphs, Networks and Algorithms

From the reviews of the 2nd edition ► *The substantial development effort of this text clearly shows through in this new edition with its clear writing, good organisation, comprehensive coverage of essential theory, and well-chosen applications. The proofs of important results and the representation of key algorithms in a Pascal-like notation allow this book to be used in a high-level undergraduate or low-level graduate course on graph theory, combinatorial optimization or computer science algorithms. The well-worked solutions to exercises are a real bonus for self study by students. The book is highly recommended.* ► Zentralblatt für Mathematik 2005

The third edition of this standard textbook contains additional material: two new application sections (on graphical codes and their decoding) and about two dozen further exercises (with solutions, as throughout the text).

Features
► Combinatorial optimization along with graph algorithms and complexity theory is booming
► Treats the most prominent problems which are polynomially solvable

Contents
Preface.- Basic Graph Theory.- Algorithms and Complexity.- Shortest Paths.- Spanning Trees.- The Greedy Algorithm.- Flows.- Combinatorial Applications.- Connectivity and Depth First Search.- Colorings.- Circulations.- The Network Simplex Algorithm.- Synthesis of Networks.- Matchings.- Weighted Matchings.- A Hard Problem: The TSP.- Appendix A: Some NP-Complete Problems.- Appendix B: Solutions.- Appendix C: List of Symbols.- References.- Index.

Fields of interest
Combinatorics; Optimization; Mathematics of Computing

Target groups
Students and researchers in mathematics

Type of publication
Graduate/Advanced undergraduate textbook

Due July 2007

3rd ed. 2007. Approx. 665 p. 195 illus. (Algorithms and Computation in Mathematics, Volume 5)
Hardcover

► * **€ (D) 69,50 | € (A) 71,45 | sFr 106,50**
ISBN 978-3-540-72779-8

A. Klein, Universität Gent

Visuelle Kryptographie

Seit der Erfindung der Schrift hat es auch immer das Bedürfnis gegeben, Geschriebenes vor unbefugten Lesern zu verbergen. Die Lehre von den Geheimschriften ist daher fast ebenso alt wie die Schrift selbst. Als Wissenschaft im modernen Sinn ist die Kryptographie jedoch noch sehr jung. Bei dem 1994 von Naor und Shamir erfundenen Verfahren der visuellen Kryptographie wird ein Bild so auf zwei Folien verteilt, dass auf jeder einzelnen Folie nur ein zufälliges Punktmuster zu sehen ist, aber beide Folien übereinandergelegt das geheime Bild ergeben.
Das Buch gibt einen Einblick in dieses aktuelle Forschungsgebiet, wobei bewußt auf die sogenannte höhere Mathematik verzichtet wurde. Es eignet sich daher ideal als Grundlage für Proseminare und Mathematik-AGs der Sekundarstufe. Aufgaben mit Musterlösungen helfen, das Gelesene zu vertiefen.

Pluspunkte
► Guter Einblick in das aktuelle Forschungsgebiet
► Ideal geeignet als Grundlage für Proseminare und Mathematik-AGs der Sekundarstufe
► Aufgaben am Ende eines jeden Kapitels
► Musterlösungen zu allen Aufgaben

Inhalt
Einleitung.- Theorie der Kryptosysteme.- Angriff und Verteidigung.- Geteilte Geheimnisse.- Täuschen und Verbergen.- Von Betrügern und anderen unangenehmen Zeitgenossen.- Von Graustufen und Farben.- Lösungen.- Materialien zum Buch.- Literaturverzeichnis.- Sachverzeichnis.

Fachgebiete
Zahlentheorie; Datenstrukturen, Kryptologie und Informationstheorie; Mathematik, allgemein

Zielgruppen
Studierende der Mathematik und Informatik (BA und Lehramt)

Kategorie
Lehrbuch

Erscheint September 2007

2007. Etwa 180 S. (Springer-Lehrbuch) Brosch.

► **€ (D) 24,95 | € (A) 25,65 | sFr 38,50**
ISBN 978-3-540-72361-5

W. Krabs, **S. Pickl**, Bundeswehr University, Munich, Germany

Modelling, Analysis and Optimization of Biosystems

Mathematical models in biology and medicine cannot be based on natural laws as it is the case with physics and chemistry. This is due to the fact that biological and medical processes are concerned with living organisms. Mathematical models, however, can be used as a language by which certain aspects of biological or medical processes can be expressed. In general, several mathematical models can be designed in order to describe a biological or medical process and there is no unique criterion which model gives the best description. This book presents several of these models and shows applications of them to different biological and medical problems. The book shows that operations research expertise is necessary in respect to modeling, analysis and optimization of biosystems.

Fields of interest
Mathematical Biology in General; Operations Research/Decision Theory; Hematology

Target groups
Researchers

Type of publication
Monograph

Due August 2007

2007. Approx. 210 p. Hardcover

► * **€ (D) 85,55 | € (A) 87,95 | sFr 131,00**
ISBN 978-3-540-71452-1

B. Krauskopf, **H. M. Osinga**, University of Bristol, UK; **J. Galan-Vioque**, University of Seville, Spain (Eds.)

Continuation Problems and Solving Boundary Value Problems: a Continuing Influence in Dynamics

The book will contain individual chapters, by world experts, each on a specific area or method that uses or was influenced by the approach of continuation and solving boundary value problems. All chapters will be self-contained, yet together. They will form a comprehensive overview of an influential field. Such an overview is very timely.

Features
► An overview of the influence of an important tool for bifurcation analysis ► Providing this material, so far spread over a large body of research literature in different fields, in one single source ► Also accessible to non-specialists

Contents
Introduction. Foreword. 1. Lecture Notes on Numerical Analysis of Nonlinear Equations.2. Interactive Continuation Tools. 3. Higher-Dimensional Continuation. 4. Computing Invariant Manifolds via the Continuation of Orbit Segments. 5. The Dynamics of SQUIDs and Coupled Pendula. 6. Global Bifurcation Analysis in Laser Systems. 8. Periodic Orbit Continuation in Multiple Time Scale Systems. 9. Continuation of Periodic orbits in Symmetric Hamiltonian Systems. 10. Phase Conditions, Symmetries and PDE Continuation. 11. Numerical Computation of Coherent Structures. 12. Continuation and Bifurcation Analysis of Delay Differential Equations. Index.

Fields of interest
Applications of Mathematics; Appl.Mathematics/ Computational Methods of Engineering; Physics and Applied Physics in Engineering

Target groups
Graduates and researchers in applied mathematics, dynamical systems, numerical analysis

Type of publication
Contributed volume

Due June 2007

2007. Approx. 305 p. Hardcover
► approx. *** € (D) 139,05 | € (A) 142,95 | sFr 213,00**
ISBN 978-1-4020-6355-8

A. Machì, Università La Sapienza, Roma, Italia

Gruppi

Una introduzione a idee e metodi della Teoria dei Gruppi

Nato dai corsi universitari di Teoria dei Gruppi tenuti per vari anni dall'autore, questo libro affronta gli argomenti fondamentali della teoria: gruppi abeliani, nilpotenti e risolubili, gruppi liberi, permutazioni, rappresentazioni e coomologia. Dopo le prime nozioni, viene esposto il programma di Hölder per la classificazione dei gruppi finiti. Un lungo capitolo è dedicato all'azione di un gruppo su un insieme e alle permutazioni, sia sotto l'aspetto algebrico che combinatorio, con richiami alla teoria delle equazioni. Si considerano anche alcune questioni di carattere logico, come la decidibilità del problema della parola per certe classi di gruppi. Un aspetto essenziale del libro è la presenza di una grande varietà di esercizi, circa 400, in gran parte risolti.

Fields of interest
Algebra; Teoria dei gruppi e generalizzazioni; Anelli commutativi e algebre commutative

Target groups
Studenti universitari dei corsi di Laurea in Matematica, Fisica, Chimica

Type of publication
Libro di testo introduttivo

Pubblicazione prevista per il mese di giugno 2007

2007. Ca. 365 pagg. (UNITEXT / La Matematica per il 3+2) Brossura
► approx. *** € (D) 30,81 | € (A) 31,68 | sFr 47,50**
ISBN 978-88-470-0622-5

U. Majer, University of Göttingen, Germany; **T. Sauer**, California Institute of Technology, Pasadena, CA, USA; **H. Schmidt**, University of Osnabrück, Germany (Hrsg.)

David Hilbert's Lectures on the Foundations of Physics, 1915-1927: Relativity, Quantum Theory and Epistemology

This Volume has three sections, General Relativity, Epistemological Issues, and Quantum Mechanics. The core of the first section is Hilbert's two semester lecture course on 'The Foundations of Physics' (1916/17). This is framed by Hilbert's published 'First and Second Communications' on the 'Grundlagen der Physik' (1915, 1917). The section closes with a lecture on the new concepts of space and time held in Bucharest in 1918. The epistemological issues concern the principle of causality in physics (1916), the intricate relation between nature and mathematical knowledge (1921), and the subtle question whether what Hilbert calls the 'world equations' are physically complete (1923). The last section deals with quantum theory in its early, advanced and mature stages. Hilbert held lecture courses on the mathematical foundations of quantum theory twice, before and after the breakthrough in 1926. These documents bear witness to one of the most dramatic changes in the foundations of science.

From the contents
Introduction.- Part C: General Relativity.- Overview of the texts on General Relativity.- Hilbert's Lectures on The Foundations of Physics from 1915.- Hilbert's Lectures on The Foundations of Physics, Main Lecture 1916/17.- Hilbert's Lectures on FoP, Second Communication 1916.- Hilbert's Lectures on Space and Time (Bukarest), 1918.- Epistemological Issues.- Overview of the texts.

Fields of interest
History of Mathematics; Mathematical and Computational Physics; Mechanics

Target groups
Historians and philosophers of physics, researchers in the pertinent physical theories

Type of publication
Collected works

Due February 2008

2008. Approx. 650 p. Hardcover
► * **€ (D) 96,25 | € (A) 98,95 | sFr 147,50**
ISBN 978-3-540-20606-4

J. E. Marsden, **G. Misiolek**, **J. Ortega**, **M. Perlmutter**, **T. S. Ratiu**

Hamiltonian Reduction by Stages

In this volume readers will find for the first time a detailed account of the theory of symplectic reduction by stages, along with numerous illustrations of the theory. Special emphasis is given to group extensions, including a detailed discussion of the Euclidean group, the oscillator group, the Bott-Virasoro group and other groups of matrices. Ample background theory on symplectic reduction and cotangent bundle reduction in particular is provided. Novel features of the book are the inclusion of a systematic treatment of the cotangent bundle case, including the identification of cocycles with magnetic terms, as well as the general theory of singular reduction by stages.

Contents
Preface.- Part I: Background and the Problem Setting.- 1. Symplectic Reduction.- 2. Cotangent Bundle Reduction.- 3. The Problem Setting.- Part II: Regular Symplectic Reduction by Stages.- 4. Commuting Reduction and Semidirect Product Theory.- 5. Regular Reduction by Stages.- 6. Group Extensions and the Stages Hypothesis.- 7. Magnetic Cotangent Bundle Reduction.- 8. Stages and Coadjoint Orbits of Central Extensions.- 9. Examples.- 10. Stages and Semidirect Products with Cocycles.- 11. Reduction by Stages via Symplectic Distributions.- 12. Reduction by Stages with Topological Conditions.- Part III: Optimal Reduction and Singular Reduction by Stages, by J.-P. Ortega.- 13. The Optimal Momentum Map and Point Reduction.- 14. Optimal Orbit Reduction.- 15. Optimal Reduction by Stages.- Bibliography.- Index.

Fields of interest
Dynamical Systems and Ergodic Theory; Differential Geometry; Mathematical and Computational Physics

Target groups
Researchers and graduate students

Type of publication
Monograph

Due June 2007

2007. XV, 519 p. (Lecture Notes in Mathematics, Volume 1913) Softcover

► approx. *** € (D) 74,85 | € (A) 76,95 | sFr 115,00**
ISBN 978-3-540-72469-8

J. Neukirch, **A. Schmidt**, **K. Wingberg**, University of Heidelberg, Germany

Cohomology of Number Fields

The present second edition is a corrected and extended version of the first. It is a textbook for students, as well as a reference book for the working mathematician, on cohomological topics in number theory. The first part provides algebraic background: cohomology of profinite groups, duality groups, free products, and homotopy theory of modules, with new sections on spectral sequences and on Tate cohomology of profinite groups. The second part deals with Galois groups of local and global fields: Tate duality, structure of absolute Galois groups of local fields, extensions with restricted ramification, Poitou-Tate duality, Hasse principles, theorem of Grunwald-Wang, Leopoldt's conjecture, Riemann's existence theorem, the theorems of Iwasawa and of Šafarevic on solvable groups as Galois groups, Iwasawa theory, and anabelian principles.

Contents
I Algebraic Theory: Cohomology of Profinite Groups.- Some Homological Algebra.- Duality Properties of Profinite Groups.- Free Products of Profinite Groups.- Iwasawa Modules II Arithmetic Theory: Galois Cohomology.- Cohomology of Local Fields.- Cohomology of Global Fields.- The Absolute Galois Group of a Global Field.- Restricted Ramification.- Iwasawa Theory of Number Fields; Anabelian Geometry.- Literature.- Index.

Fields of interest
Number Theory; Algebraic Geometry; Group Theory and Generalizations

Target groups
Graduate students and researchers in number theory

Type of publication
Monograph

Due December 2007

2nd ed. 2008. Approx. 700 p. (Grundlehren der mathematischen Wissenschaften, Volume 323) Hardcover

► approx. *** € (D) 106,95 | € (A) 109,95 | sFr 164,00**
ISBN 978-3-540-37888-4

S. Roman, Irvine, CA, USA

Advanced Linear Algebra

For the third edition, the author has: added a new chapter on associative algebras that includes the well known characterizations of the finite-dimensional division algebras over the real field (a theorem of Frobenius) and over a finite field (Wedderburn's theorem); polished and refined some arguments (such as the discussion of reflexivity, the rational canonical form, best approximations and the definitions of tensor products); upgraded some proofs that were originally done only for finite-dimensional/rank cases; added new theorems, including the spectral mapping theorem; corrected all known errors; the reference section has been enlarged considerably, with over a hundred references to books on linear algebra.

From the reviews of the second edition ► *In this 2nd edition, the author has rewritten the entire book and has added more than 100 pages of new materials. … As in the previous edition, the text is well written and gives a thorough discussion of many topics of linear algebra and related fields. … the exercises are rewritten and expanded. … Overall, I found the book a very useful one. … It is a suitable choice as a graduate text or as a reference book* ► **Ali-Akbar Jafarian**, ZentralblattMATH

Features
► Contains topics that are not generally found in linear algebra books ► Coverage is especially broad ► An extensive bibliography has been added ► Encyclopedic treatment of linear algebra theory, both classical and modern

From the contents
Vector Spaces.- Linear Transformations.- The Isomorphism Theorems.- Modules I: Basic Properties.- Modules II: Free and Noetherian Modules.- Modules over a Principal Ideal Domain.- The Structure of a Linear Operator.- Eigenvalues and Eigenvectors.

Fields of interest
Linear and Multilinear Algebras, Matrix Theory

Target groups
Graduate mathematics students

Type of publication
Graduate/Advanced undergraduate textbook

Due September 2007

3rd ed. 2007. Approx. 550 p. 25 illus. (Graduate Texts in Mathematics, Volume 135) Hardcover

► approx. *** € (D) 57,67 | € (A) 59,29 | sFr 88,50**
ISBN 978-0-387-72828-5

C. Rousseau, **Y. Saint-Aubin**, Université de Montréal, QC, Canada

Mathématiques et Technologie

Avec des contributions de: H. Antaya, I. Ascah-Coallier

Les auteurs présentent des concepts mathématiques de base, comme les chaînes de Markov, les fonctions itérées, la structure de corps fini, et les développent dans le contexte de problèmes réels tels que la navigation internet, la compression de données et les codes correcteurs d'erreurs. Un des leitmotivs du texte est de montrer comment la modélisation mathématique, la puissance des outils mathématiques et l'abstraction sont toutes cruciales pour l'innovation technologique. Les divers sujets sont présentés avec clarté et les mathématiques toujours discutées à partir de connaissances de base. Chaque chapitre suggère de nombreux exercices, certains élémentaires pour renforcer la compréhension, d'autres plus avancés pour explorer de nouvelles problématiques. Une mise en contexte historique de certains concepts mathématiques ou de l'évolution d'une technologique enrichit le texte.

Features
► Livre vulgarise de nombreuses applications des mathématiques et tout mathématicien ou doctorant en mathématiques sera également intéressé ► Les divers sujets sont présentés avec clarté et les mathématiques toujours discutées à partir de connaissances de base

From the contents
Avant-Propos.- Table des matières.- Flashs-science.- Épargner et emprunter.- Google et l'algorithme PageRank.- La compression d'images.- Codes correcteurs.- La cryptographie à clé publique.- Les machines de Turing.- L'ordinateur à l'ADN.- GPS.- Frises et mosaïques.

Fields of interest
Mathématiques appliquées; Informatique, généralités

Target groups
Étudiants en mathématiques au premier cycle (undergraduates du système nord-américain) et futurs maîtres du secondaire; doctorant en mathématiques

Type of publication
Manuel 2ème cycle

A paraître septembre 2007

2007. Env. 440 p. 100 illus. (Springer Undergraduate Series in Mathematics and Technology) Broché

► approx. *** € (D) 50,24 | € (A) 51,65 | sFr 77,00**
ISBN 978-0-387-69212-8

G. Shimura, Princeton University, Princeton , NJ, USA

Elementary Dirichlet Series and Modular Forms

A book on any mathematical subject beyond the textbook level is of little value unless it contains new ideas and new perspectives. Of course it helps to include new results, provided that they give the reader new insights and are presented along with known old results in a clear exposition. It is with this philosophy that the author writes this volume. The two subjects, Dirichlet series and modular forms, are traditional subjects, but here Goro Shimura treats them in both orthodox and unorthodox ways. Regardless of the unorthodox treatment, the author has made the book accessible to those who are not familiar with such topics, by including plenty of expository material.

Features
► Author writes in a clear and engaging style ► Contains never before published elementary proofs ► Author provides new results and plenty of exposition ► Self-contained, and suitable for use in a classroom setting

Contents
Preface.- Introduction.- Preliminaries on Modular Forms and Dirichlet Series.- Critical Values of Dirichlet L-functions.- The Case of Imaginary Quadratic Fields and Nearly Holomorphic Modular Forms.- Eisenstein Series.- Critical Values of Dirichlet Series Associated with Imaginary Quadratic Fields.- Supplementary Results.- Appendix.- Bibliography.- Index.

Fields of interest
Number Theory; Algebraic Geometry

Target groups
Mathematicians, graduate students

Type of publication
Graduate/Advanced undergraduate textbook

Due October 2007

2007. Approx. 150 p. (Springer Monographs in Mathematics) Hardcover

► approx. *** € (D) 49,43 | € (A) 50,82 | sFr 76,00**
ISBN 978-0-387-72473-7

T. S. Shores, University of Nebraska, Lincoln, NE, USA

Applied Linear Algebra and Matrix Analysis

This new book offers a fresh approach to matrix and linear algebra by providing a balanced blend of applications, theory, and computation, while highlighting their interdependence. Intended for a one-semester course, Applied Linear Algebra and Matrix Analysis places special emphasis on linear algebra as an experimental science, with numerous examples, computer exercises, and projects. While the flavor is heavily computational and experimental, the text is independent of specific hardware or software platforms.

Features
► Emphasizes linear algebra as an experimental science ► Examples are interwoven throughout the text ► Provides a blend of applications, theory and computation, to illustrate their interdependence

Contents
Preface.- Linear Systems of Equations.- Matrix Algebra.- Vector Spaces.- Geometrical Aspects of Standard Spaces.- The Eigenvalue Problem.- Geometrical Aspects of Abstract Spaces.- Table of Symbols.- Answers to Selected Exercises.- References.- Index.

Field of interest
Linear and Multilinear Algebras, Matrix Theory

Target groups
Undergraduate mathematics students

Type of publication
Undergraduate textbook

Due September 2007

2007. XII, 388 p. 27 illus. (Undergraduate Texts in Mathematics) Softcover

► * **€ (D) 35,26 | € (A) 36,25 | sFr 54,00**
ISBN 978-0-387-33195-9

R. Vazquez, University of Seville, Spain; **M. Krstic**, University of California, San Diego, CA, USA

Control of Turbulent and Magnetohydrodynamic Channel Flows

Boundary Stabilization and State Estimation

Turbulent flows modeled by systems of partial differential equations are often unstable and can typically be controlled or measured only from the boundary or walls of the flow domain. This monograph presents new constructive design methods for boundary stabilization and boundary estimation for several classes of benchmark problems in flow control, with potential applications in turbulence control, aerodynamics, weather forecasting, chemical processes, and plasma control.
Topics and Features: Use of a unique "backstepping" approach to parabolic partial differential equations, which yields not only the stabilization of the flow, but also the explicit solvability of the closed-loop system.

Features
► A unique "backstepping" approach is presented and extended to eliminate one of the well-recognized root causes of transition to turbulence ► New results in fluid dynamics and the analysis of Navier-Stokes equations are presented

From the contents
Thermal-Fluid Convenction Loop: Boundary Stabilization.- Thermal-Fluid Convection Loop: Boundary Estimation and Output-Feedback Stabilization.- 2-D Navier–Stokes Channel Flow: Boundary Stabilization.- 2-D Navier–Stokes Channel Flow: Boundary Estimation.- 3-D MHD Channel Flow: Boundary Stabilization.- 3-D MHD Channel Flow: Boundary Estimation.

Fields of interest
Systems Theory, Control; Engineering Fluid Dynamics; Partial Differential Equations

Target groups
Graduate students, researchers, and practitioners in control, fluid mechanics, mechanical, aerospace, chemical, and electrical engineering and applied mathematics

Type of publication
Monograph

BIRKHÄUSER

Due September 2007

2007. Approx. 190 p. 14 illus. (Systems & Control: Foundations & Applications) Hardcover

► approx. *** € (D) 64,15 | € (A) 65,95 | sFr 95,00**
ISBN 978-0-8176-4698-1

S. Waldmann, Albert-Ludwigs-Universität Freiburg

Poisson-Geometrie und Deformationsquantisierung

Eine Einführung

In diesem Buch werden die Grundlagen der Poisson-Geometrie und der Deformationsquantisierung ausgehend von physikalischen Fragestellungen auf kohärente Weise entwickelt. Die Poisson-Geometrie bietet einen allgemeinen Rahmen für die geometrische Mechanik und stellt eine Verallgemeinerung der symplektischen Geometrie dar. Diese nimmt, insbesondere im Hinblick auf mechanische Systeme mit Symmetrien und deren Phasenraumreduktion, einen wichtigen Platz ein. Für die angestrebte Quantisierung werden die geometrischen Sachverhalte algebraisch gedeutet und entsprechend formuliert. Darauf aufbauend bietet die Deformationsquantisierung einen allgemeinen Rahmen für die Quantisierung von Poisson-Mannigfaltigkeiten, der nun erstmals in Lehrbuchform entwickelt wird.

Pluspunkte
► Kohärente Entwicklung der Poisson-Geometrie und der Deformationsquantisierung, ausgehend von phyiskalischen Fragestellungen ► Sehr ausführliche Beweise und über 100 Übungsaufgaben mit Lösungshinweisen ► Auch bestens zum Selbststudium geeignet

Inhalt
Aspekte der Hamiltonschen Mechanik.- Differentialgeometrische Grundlagen.- Symplektische Geometrie.- Poisson-Geometrie.- Quantisierung: Erste Schritte.- Formale Deformationsquantisierung.- Zustände und Darstellungen.- Differentialoperatoren auf Mannigfaltigkeiten.- A1 Zerlegungen der Eins.- A2 Algebraische Definition von Differentialoperatoren.- A.3 Differentialoperatoren der Algebra C1(M).- A.4 Algebraische Definition von Multidifferentialoperatoren.- A.5 Multidifferentialoperatoren auf Schnitten von Vektorbündeln.- Aufgaben.- Literaturverzeichnis.- Stichwortverzeichnis.

Fachgebiete
Geometrie; Mathematische Methoden in der Physik

Zielgruppen
Studierende und Dozenten der Mathematik und Physik

Kategorie
Lehrbuch

Erscheint September 2007

2007. Etwa 600 S. Brosch.

► **€ (D) 39,95 | € (A) 41,07 | sFr 61,50**
ISBN 978-3-540-72517-6

U. Zannier, Scuola Normale Superiore, Pisa, Italy (Ed.)

Colloquium De Giorgi 2006

This book contains expositions of talks of the Colloquio De Giorgi, given by eminent experts and addressed to a 'general' public (audience) of mathematicians. The topics are prepared in such a way that readers will get some idea of recent progress in several mathematical fields.

Features
► Short introductions to topics of modern research

Field of interest
Mathematics, general

Target groups
Mathematicians

Type of publication
Contributed volume

BIRKHÄUSER

Due June 2007

2007. Approx. 61 p. (Publications of the Scuola Normale Superiore (PSNS) / Colloquia (Scuola N.S.), Volume 1) Softcover

► * **€ (D) 17,12 | € (A) 17,60 | sFr 28,00**
ISBN 978-88-7642-212-6

U. Zannier, Scuola Normale Superiore, Pisa, Italy (Ed.)

Diophantine Geometry

This book contains research articles on Diophantine Geometry, written by participants of a research program held at the Ennio De Giorgi Mathematical Research Center in Pisa, Italy, during the period April – July 2005. The authors are eminent experts in the field. Several subfields of the main topic are presented; the volume thus is particularly useful to get a broad overview of recent research developments.

Features
► Originating from a focussed and intense research period at the Research Center in Pisa

Fields of interest
Algebraic Geometry; Number Theory

Target groups
Postgraduates and researchers

Type of publication
Contributed volume

BIRKHÄUSER

Due June 2007

2007. Approx. 410 p. (Publications of the Scuola Normale Superiore (PSNS) / CRM Series (Scuola N.S.), Volume 4) Softcover

► * **€ (D) 26,75 | € (A) 27,50 | sFr 40,00**
ISBN 978-88-7642-206-5

J. Albert, Bowling Green State University, Bowling Green, OH, USA

Bayesian Computation with R

There has been a dramatic growth in the development and application of Bayesian inferential methods. Some of this growth is due to the availability of powerful simulation-based algorithms to summarize posterior distributions. There has been also a growing interest in the use of the system R for statistical analyses. R's open source nature, free availability, and large number of contributor packages have made R the software of choice for many statisticians in education and industry.
Bayesian Computation with R introduces Bayesian modeling by the use of computation using the R language. The early chapters present the basic tenets of Bayesian thinking by use of familiar one and two-parameter inferential problems. Bayesian computational methods such as Laplace's method, rejection sampling, and the SIR algorithm are illustrated in the context of a random effects model. The construction and implementation of Markov Chain Monte Carlo (MCMC) methods is introduced.

Features
► Introduces Bayesian modeling by use of computation using the R language

Contents
An introduction to R.- Introduction to Bayesian thinking.- Single parameter models.- Multiparameter models.- Introduction to Bayesian computation.- Markov chain Monte Carlo methods.- Hierarchical modeling.- Model comparision.- Regression models.- Gibbs sampling.- Using R to interface with WinBUGS.

Field of interest
Statistical Theory and Methods

Target groups
Instructors, students, practitioners

Type of publication
Graduate/Advanced undergraduate textbook

Due August 2007

2007. Approx. 280 p. (Use R) Softcover

► approx. *** € (D) 41,20 | € (A) 42,35 | sFr 63,50**
ISBN 978-0-387-71384-7

D. Cook, Iowa State University, Ames, IA, USA; **D. F. Swayne**, AT&T Labs, Florham Park, NJ, USA

Interactive and Dynamic Graphics for Data Analysis

With R and GGobi

This richly illustrated book describes the use of interactive and dynamic graphics as part of multidimensional data analysis. Chapters include clustering, supervised classification, and working with missing values. A variety of plots and interaction methods are used in each analysis, often starting with brushing linked low-dimensional views and working up to manual manipulation of tours of several variables. The role of graphical methods is shown at each step of the analysis, not only in the early exploratory phase, but in the later stages, too, when comparing and evaluating models.
All examples are based on freely available software: GGobi for interactive graphics and R for static graphics, modeling, and programming. The printed book is augmented by a wealth of material on the web, encouraging readers follow the examples themselves. The web site has all the data and code necessary to reproduce the analyses in the book, along with movies demonstrating the examples.

Features
► The book's examples use the software R and GGobi ► Includes: An introduction to data visualization explaining how it differs from other types of visualiziation ► Strategy for making inference from plots

Contents
Introduction.- The toolbox.- Missing values.- Supervised classification.- Cluster analysis.- Miscellaneous topics.- Data sets.

Fields of interest
Statistical Theory and Methods

Target groups
Students, researchers

Type of publication
Monograph

Due September 2007

2007. Approx. 205 p. (Use R) Softcover

► approx. *** € (D) 49,43 | € (A) 50,82 | sFr 76,00**
ISBN 978-0-387-71761-6

M. A. Ferreira, University of Missouri, Columbia, MO, USA; **H. K. Lee**, University of California, Santa Cruz, CA, USA

Multiscale Modeling

A Bayesian Perspective

A wide variety of processes occur on multiple scales, either naturally or as a consequence of measurement. This book contains methodology for the analysis of data that arise from such multiscale processes. The book brings together a number of recent developments and makes them accessible to a wider audience. Taking a Bayesian approach allows for full accounting of uncertainty, and also addresses the delicate issue of uncertainty at multiple scales. The Bayesian approach also facilitates the use of knowledge from prior experience or data, and these methods can handle different amounts of prior knowledge at different scales, as often occurs in practice.

Features
► Stochastic models for processes that live and can possibly be observed at different levels of resolution ► The models in this book allow different degrees of smoothness of the stochastic processes at the different levels of resolution ► The statistical analysis of multiscale models based on the Bayesian paradigm in the book allow a full amount of uncertainty ► Contains implicit multiscale models implementable with parallel computation and genetic algorithms

From the contents
Introduction.- Models for Spatial Data.- Illustrative Example.- Convolution Methods.- Wavelet Methods.- Overview on Explicit Multiscale Models.- Gaussian Multiscale Models on Trees.- Hidden Markov Models on Trees.- Mass Balanced Multiscale Models on Trees.

Fields of interest
Statistical Theory and Methods; Simulation and Modeling; Image Processing

Target groups
Practitioners, researchers, graduate students

Type of publication
Monograph

Due August 2007

2007. Approx. 255 p. (Springer Series in Statistics) Hardcover

► approx. *** € (D) 65,91 | € (A) 67,76 | sFr 101,00**
ISBN 978-0-387-70897-3

B. D. Furberg, Merck Pharmaceuticals, Sweden;
C. D. Furberg, Wake Forest University, Winston-Salem, NC, USA

Evaluating Clinical Research

All That Glitters is Not Gold

The objective of this book is to make the readers better informed and more critical consumers of clinical research. It will help the reader recognize the strengths and the weaknesses of scientific publications. In doing so, the reader will be able to distinguish patient-important and methodologically sound studies from those having limitations in design, conduct and interpretation.
There are no prerequisites for reading this book. The text is basic and has no statistical formulas. Key take-home messages are listed at the end of each chapter. The large number of cartoons has two purposes: First, to make the text easier to read and generate a few laughs and, second, to underscore specific points, sometimes in a provocative way.

Features
► Updates and expands the first edition of this text, released in 1994 ► Previous edition was only available in Swedish

From the contents
What is the Purpose of this Book?.- Why is Benefit-to-Harm Balance Essential to Treatment Decisions?.- What are the Strengths of Randomized Controlled Clinical Trials?.- What are the Weaknesses of Randomized Controlled Clinical Trials?.- Do Meta-Analyses Provide the Ultimate Truth?.- What are the Strengths of Observational Studies?.- What are the Weaknesses of Observational Studies?.- Were the Scientific Questions Specified in Advance?.- Were the Treatment Groups Comparable Initially?.- Why is Blinding/Masking So Important?.

Fields of interest
Statistics for Life Sciences, Medicine, Health Sciences; Quality of Life Research; Pharmacology/Toxicology

Target groups
Clinicians, practitioners

Type of publication
Monograph

Due August 2007

Originally published by the author

2nd ed. 2007. Approx. 170 p. Softcover

► approx. *** € (D) 24,72 | € (A) 25,41 | sFr 38,00**
ISBN 978-0-387-72898-8

E. Lehmann, University of California, Berkeley, CA, USA

The Company I Kept

Reminiscences of a Statistician

This relatively nontechnical book is the first account of the history of statistics from the Fisher revolution to the computer revolution. It sketches the careers, and highlights of some of the work, of 65 people, most of them statisticians. What gives the book its special character is its emphasis on the author's interaction with these people and the inclusion of many personal anecdotes.
Combined, these portraits provide a panoramic view of statistics during the period in question. Included are discussions of such topics as nonparametrics, Bayesian approaches, and data analysis. The stress is on ideas and technical material is held to a minimum. Thus the book is accessible to anyone with at least an elementary background in statistics.

Features
► Professor Lehmann recalls the many remarkable statisticians and mathematicians he has known ► First account of the history of statistics from the Fisher revolution to the computer revolution ► Stress is on ideas and technical material is held to a minimum

From the contents
Mathematical preparation.- Becoming a statistican.- Early collaborators.- Mathematical statistics at other universities.- The annals.- The Berkeley statistics department I: establishment and first generation.- The Berkeley statistics department II: the second generation.

Field of interest
Statistics, general

Target groups
Statisticians, mathematicians, students

Type of publication
Popular science

Due September 2007

2007. Approx. 255 p. Softcover

► approx. *** € (D) 37,08 | € (A) 38,12 | sFr 57,00**
ISBN 978-0-387-71596-4

J. O'Quigley, University of California, San Diego, CA, USA

Proportional Hazards Regression

The place in survival analysis now occupied by proportional hazards models and their generalizations is so large that it is no longer conceivable to offer a course on the subject without devoting at least half of the content to this topic alone. This book focuses on the theory and applications of a very broad class of models – proportional hazards and non-proportional hazards models, the former being viewed as a special case of the latter – which underlie modern survival analysis.
Unlike other books in this area the emphasis is not on measure theoretic arguments for stochastic integrals and martingales. Instead, while inference based on counting processes and the theory of martingales is covered, much greater weight is placed on more traditional results such as the functional central limit theorem.

Features
► Text differs from most recent works in that it is mostly concerned with methodological issues rather than the analysis itself

From the contents
Introduction.- Background: probability.- Background: inference.- Background: survival analysis.- Marginal survival.- Regression models and subject heterogeneity.- Estimating equations.- Inference: functions of the Brownian motion.

Field of interest
Statistics for Life Sciences, Medicine, Health Sciences

Target groups
Researchers, graduate students

Type of publication
Monograph

Due August 2007

2007. Approx. 430 p. (Statistics for Biology and Health) Hardcover

► approx. *** € (D) 69,50 | € (A) 71,45 | sFr 106,50**
ISBN 978-0-387-25148-6

M. Block, FU Berlin

Java-Intensivkurs

In 14 Tagen lernen Projekte erfolgreich zu realisieren

Co-Autoren: E. Tapia, F. Franke

Das Buch bietet eine verständliche, kompakte Einführung in die Softwareentwicklung mit Java. Es konzentriert sich dabei mehr auf Konzepte und Methoden als auf versionsspezifische Sprachelemente. Ziel ist die Motivation und Ausbildung zum Selbststudium. Die Konzepte werden durch die Realisierung von Projekten vermittelt. Dabei setzt dieses Buch auf kreative, neue Beispiele und streift durch verschiedene Gebiete der Informatik, wie z.B. Algorithmik, Künstliche Intelligenz, Bildverarbeitung und Spieleentwicklung. Am Ende jedes Kapitels werden die dargestellten Konzepte kurz zusammengefasst und durch praktische Aufgaben gefestigt. Die im Buch gezeigten Beispiele, Lösungen der Aufgaben und zusätzliches Material werden auf einer Webseite angeboten.

Pluspunkte
► Schnelle Einführung in Programmierung und die Sprache Java ► Vermittlung von Konzepten durch Realisierung von kleinen bis großen Projekten ► Einfacher Beispielcode für komplexe Themen

Inhalt
Tag 1: Vorbereitungen und Motivation.- Tag 2: Grundlegende Prinzipien der Programmentwicklung.- Tag 3: Programmieren mit einem einfachen Klassenkonzept.- Tag 4: Daten laden und speichern.- Tag 5: Verwendung einfacher Datenstrukturen.- Tag 6: Debuggen und Fehlerbehandlungen.- Tag 7: Erweitertes Klassenkonzept.- Tag 8: Verwendung von Bibliotheken.- Tag 9: Grafische Benutzeroberflächen.- Tag 10: Appletprogrammierung.- Tag 11: Techniken der Programmentwicklung.- Tag 12: Bildverarbeitung.- Tag 13: Methoden der Künstlichen Intelligenz.- Tag 14: Entwicklung einer größeren Applikation.- Java - Weiterführende Konzepte.- Glossar.

Fachgebiete
Programmiersprachen und Interpreter; Anwendung von Informationssystemen (einschl. Internet)

Zielgruppen
Programmierer, (Quer-)Einsteiger

Kategorie
Fachbuch

Erscheint Juli 2007

2007. Etwa 250 S. (Xpert.press) Brosch.

► **€ (D) 29,95 | € (A) 30,80 | sFr 46,00**
ISBN 978-3-540-72271-7

G. A. Fink, University of Dortmund, Germany

Markov Models for Pattern Recognition

From Theory to Applications

Markov models are used to solve challenging pattern recognition problems on the basis of sequential data as, e.g., automatic speech or handwriting recognition. This comprehensive introduction to the Markov modeling framework describes both the underlying theoretical concepts of Markov models - covering Hidden Markov models and Markov chain models - as used for sequential data and presents the techniques necessary to build successful systems for practical applications. Additionally, the actual use of the technology in the three main application areas of pattern recognition methods based on Markov- Models - namely speech recognition, handwriting recognition, and biological sequence analysis - are demonstrated.

Features
► Covers speech, handwriting recognition, and biological sequence analysis ► Both theoretical foundations as well as methods required to build successful applications in practice are presented ► Suitable for experts as well as for practitioners

Contents
Application Areas.- Speech.- Handwriting.- Biological Sequences.- Foundations of Mathematical Statistics.- Vector Quantisation.- Hidden-Markov Models.- n-Gram-Models.- Computations with Probabilities.- Configuration of Hidden-Markov-Models.- Robust Parameter Estimation.- Efficient Model Evaluation.- Model Adaptation.- Integrated Search.- Speech Recognition.- Text Recognition.- Analysis of Biological Sequences.

Fields of interest
Pattern Recognition; Image Processing; Language Translation and Linguistics

Target groups
Researchers and practitioners in the field of pattern recognition

Type of publication
Professional book

Due October 2007

Deutsche Originalausgabe erschienen bei Teubner, 2003

2007. Approx. 220 p. Hardcover

► * **€ (D) 48,10 | € (A) 49,45 | sFr 74,00**
ISBN 978-3-540-71766-9

K. Jäger, Stuttgart

AJAX in der Praxis

Grundlagen, Konzepte, Lösungen

AJAX hat das Web zu einer Plattform für Anwendungssoftware gemacht. Beispiele wie Google Maps, GMail oder Flickr demonstrieren eindrucksvoll, welches Potential in dieser Technologie steckt. Dieses Buch bietet allen, die bereits Web-Anwendungen entwickeln und sich noch nicht mit AJAX befasst haben, aber auch traditionellen Software-Entwicklern, die den Sprung ins Web machen möchten, einen gründlichen und verständlichen Einstieg in die Technologie. Anhand vieler praxisnaher Beispiele werden alle nötigen Konzepte vermittelt, häufige Probleme werden angesprochen und bewährte Lösungen vorgestellt. Das Buch eignet sich durch seinen Aufbau gleichermaßen als Fachbuch und Nachschlagewerk und erleichtert somit nicht nur den Einstieg, sondern auch die tägliche Arbeit mit AJAX. Die technischen Grundlagen und Konzepte werden ergänzt durch eine umfassende Auseinandersetzung mit den Themen Sicherheit, Usability und Barrierefreiheit.

Pluspunkte
► Zahlreiche Beispiele und Techniken für modernste Web-Anwendungen ► Konkrete Lösungen ► Design-Patterns

Fachgebiete
Programmiertechniken; Programmiersprachen und Interpreter; Software Engineering

Zielgruppen
Softwareentwickler, Programmierer

Kategorie
Fachbuch

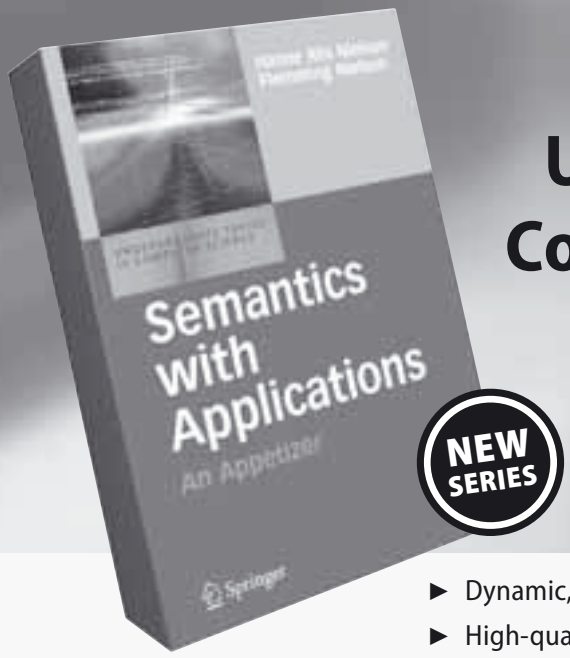
Erscheint September 2007

2007. Etwa 450 S. 20 Abb. (Xpert.press) Geb.

► **€ (D) 49,95 | € (A) 51,35 | sFr 76,50**
ISBN 978-3-540-69333-8

Springer

springer.de



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Iain D. Craig

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Due June 2007

Semantics with Applications: An Appetizer

H. Riis Nielson, F. Nielson

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► € (D) 32,05 | €(A) 32,95 | sFr 49,50

Due August 2007

Introduction to Operating System Design and Implementation

The OSP 2 Approach

M. Kifer, S. Smolka

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P. Brooke, R. Paige

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Due December 2007

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F. Klawonn

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D. Makinson

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M. M. Ackerman, University of Michigan, Ann Arbor, USA; **C. Halverson**, **T. Erickson**, **W. Kellogg**, IBM TJ Watson Research, USA (Eds.)

Resources, Co-Evolution and Artifacts

Theory in CSCW

A topic of significant interest to the CSCW, IT and IS communities is the issue of how software and other technical systems come to be adopted and used. We know from considerable research that people use systems in many ways, and that the process of incorporating them in their everyday activities can require a great deal of effort. One way of understanding adoption and use is by considering artifacts as resources in people's environments.
"Resources, Co-Evolution and Artifacts: Theory in CSCW" looks at how resources get created, adopted, modified, and die, by using a number of theoretical and empirical studies to carefully examine and chart resources over time. It examines issues such as: how resources are tailored or otherwise changed as the situations and purposes for which they are used change; how a resource is maintained and reused within an organisation.

Features
► Proposes some new theories for CSCW by attempting to determine why computational systems or other artifacts become so important in people's environments (or how they become resources)

Fields of interest
User Interfaces and Human Computer Interaction; Information Systems and Communication Service; Management of Computing and Information Systems

Target groups
Researchers and educators in IT; software engineers and information technology managers

Type of publication
Contributed volume

Due October 2007

2007. Approx. 336 p. (Computer Supported Cooperative Work) Hardcover

► * **€ (D) 78,06 | € (A) 80,25 | sFr 120,00**
ISBN 978-1-84628-900-2

I. F. Akyildiz, **R. Sivakumar**, **E. Ekici**, **J. Cavalcante de Oliveira**, **J. McNair** (Eds.)

NETWORKING 2007. Ad Hoc and Sensor Networks, Wireless Networks, Next Generation Internet

6th International IFIP-TC6 Networking Conference, Atlanta, GA, USA, May 14-18, 2007, Proceedings

This book constitutes the refereed proceedings of the 6th International IFIP-TC6 Networking Conference, NETWORKING 2007, held in Atlanta, GA, USA in May 2007.
The 99 revised full papers and 30 poster papers were carefully reviewed and selected from 440 submissions. The papers are organized in topical sections on ad hoc and sensor networks: connectivity and coverage, scheduling and resource allocation, mobility and location awareness, routing, and key management; wireless networks: mesh networks, mobility, TCP, MAC performance, as well as scheduling and resource allocation; next generation internet: content distribution, QoS, topology design, routing, buffer management, optical networks, TCP, security, and network measurement.

Fields of interest
Computer Communication Networks; System Performance and Evaluation; Information Systems Applications (incl. Internet)

Target groups
Researchers and professionals

Type of publication
Proceedings

Due June 2007

2007. XXVII, 1252 p. Also available online. (Lecture Notes in Computer Science, Volume 4479) Softcover

► * **€ (D) 163,71 | € (A) 168,30 | sFr 251,00**
ISBN 978-3-540-72605-0

G. Almási, **C. Cascaval**, **P. Wu**, IBM Watson Research Center, Yorktown Hights, NY, USA (Eds.)

Languages and Compilers for Parallel Computing

19th International Workshop, LCPC 2006, New Orleans, LA, USA, November 2-4, 2006, Revised Papers

This book constitutes the thoroughly refereed post-proceedings of the 19th International Workshop on Languages and Compilers for Parallel Computing, LCPC 2006, held in New Orleans, LA, USA in November 2006.
The 24 revised full papers presented together with 2 keynote talks were carefully reviewed and selected from 49 initial submissions. The papers are organized in topical sections on programming models, code generation, parallelism, compilation techniques, data structures, register allocation, and memory management.

Fields of interest
Programming Languages, Compilers, Interpreters; Programming Techniques; Computation by Abstract Devices

Target groups
Researchers and professionals

Type of publication
Proceedings

Due June 2007

2007. IX, 366 p. Also available online. (Lecture Notes in Computer Science, Volume 4382) Softcover

► * **€ (D) 55,64 | € (A) 57,20 | sFr 85,50**
ISBN 978-3-540-72520-6

A. An, **J. Stefanowski**, **S. Ramanna**, **C. Butz**, **W. Pedrycz**, **G. Wang** (Eds.)

Rough Sets, Fuzzy Sets, Data Mining and Granular Computing

11th International Conference, RSFDGrC 2007, Toronto, Canada, May 14-16, 2007

This book constitutes the refereed proceedings of the 11th International Conference on Rough Sets, Fuzzy Sets, Data Mining, and Granular Computing, RSFDGrC 2007, held in Toronto, Canada in May 2007 in conjunction with the Second International Conference on Rough Sets and Knowledge Technology, RSKT 2007, both as part of the Joint Rough Set Symposium, JRS 2007. The 65 revised full papers presented together with 4 invited papers were carefully reviewed and selected from a total of 319 general submissions to the JRS 2007 symposium. The papers are organized in topical sections on fuzzy-rough hybridization, fuzzy sets, soft computing in medical image processing, soft computing in information retrieval, clustering, text and Web mining, learning, data mining and rough classifiers, granular computing, soft computing in multimedia processing, soft computing applications, and rough and complex concepts.

Fields of interest
Artificial Intelligence (incl. Robotics); Database Management

Target groups
Researchers and professionals

Type of publication
Proceedings

Due June 2007

2007. XIV, 585 p. Also available online. (Lecture Notes in Computer Science, Volume 4482) Softcover

► * **€ (D) 72,76 | € (A) 74,80 | sFr 111,50**
ISBN 978-3-540-72529-9

S. Artemov, GUNY Graduate Center, New York, NY, USA; **A. Nerode**, Cornell Univesity, Ithaka, NY, USA (Eds.)

Logical Foundations of Computer Science

International Symposium, LFCS 2007, New York, NY, USA, June 4-7, 2007, Proceedings

This book constitutes the refereed proceedings of the International Symposium on Logical Foundations of Computer Science, LFCS 2007, held in New York, NY, USA in June 2007.
The volume presents 36 revised refereed papers carefully selected by the program committee. All current aspects of logic in computer science are addressed, including constructive mathematics and type theory, logical foundations of programming, logical aspects of computational complexity, logic programming and constraints, automated deduction and interactive theorem proving, logical methods in protocol and program verification and in program specification and extraction, domain theory logics, logical foundations of database theory, equational logic and term rewriting, lambda and combinatory calculi, categorical logic and topological semantics, linear logic, epistemic and temporal logics, intelligent and multiple agent system logics, logics of proof and justification, nonmonotonic reasoning, logic in game theory and social software.

Fields of interest
Mathematical Logic and Formal Languages; Logics and Meanings of Programs; Mathematical Logic and Foundations

Target groups
Researchers and professionals

Type of publication
Proceedings

Due June 2007

2007. XI, 513 p. Also available online. (Lecture Notes in Computer Science, Volume 4514) Softcover

► * **€ (D) 68,48 | € (A) 70,40 | sFr 105,00**
ISBN 978-3-540-72732-3

C. Baral, Arizona State University, Tempe, AR, USA; **G. Brewka**, University of Leipzig, Germany; **J. Schlipf**, University of Cincinnati, OH, USA (Eds.)

Logic Programming and Nonmonotonic Reasoning

9th International Conference, LPNMR 2007, Tempe, AZ, USA, May 15-17, 2007, Proceedings

This book constitutes the refereed proceedings of the 9th International Conference on Logic Programming and Nonmonotonic Reasoning, LPNMR 2007, held in Tempe, AZ, USA in May 2007.
The 18 revised full papers, 5 revised poster papers, and 7 system descriptions presented together with 2 invited papers were carefully reviewed and selected for presentation. As a forum for exchanging ideas on declarative logic programming, nonmonotonic reasoning, and knowledge representation, LPNMR encompasses theoretical studies, design and implementation of logic based programming languages and database systems, and development of experimental systems. Also contained in this volume are the results of this year's answer set programming competition.

Fields of interest
Artificial Intelligence (incl. Robotics); Mathematical Logic and Formal Languages; Programming Techniques

Target groups
Researchers and professionals

Type of publication
Proceedings

Due June 2007

2007. IX, 327 p. Also available online. (Lecture Notes in Computer Science, Volume 4483) Softcover

► * **€ (D) 51,36 | € (A) 52,80 | sFr 79,00**
ISBN 978-3-540-72199-4

M. Bernardo, University of Urbino, Italy; **J. Hillston**, University of Edinburgh, UK (Eds.)

Formal Methods for Performance Evaluation

7th International School on Formal Methods for the Design of Computer, Communication, and Software Systems, SFM 2007, Bertinoro, Italy, May 8-June 2, 2007, Advanced Lectures

This book presents a set of 11 papers accompanying the lectures of leading researchers given at the 7th edition of the International School on Formal Methods for the Design of Computer, Communication and Software Systems, SFM 2007, held in Bertinoro, Italy in May/June 2007.
SFM 2007 was devoted to formal techniques for performance evaluation and coveres several aspects of the field, including formalisms for performance modeling (Markov chains, queueing networks, stochastic Petri nets, and stochastic process algebras), equivalence checking and model checking, efficient solution techniques, and software performance engineering.

Fields of interest
Software Engineering; Programming Languages, Compilers, Interpreters; Logics and Meanings of Programs

Target groups
Advanced students, researchers, and professionals

Type of publication
Proceedings

Due June 2007

2007. VII, 469 p. Also available online. (Lecture Notes in Computer Science, Volume 4486) Softcover

► * **€ (D) 57,78 | € (A) 59,40 | sFr 88,50**
ISBN 978-3-540-72482-7

F. Boavida, **E. Monteiro**, **S. Mascolo**, **Y. Koucheryavy** (Eds.)

Wired/Wireless Internet Communications

5th International Conference, WWIC 2007, Coimbra, Portugal, May 23-25, 2007, Proceedings

This book constitutes the refereed proceedings of the 5th International Conference on Wired/Wireless Internet Communications, WWIC 2007, held in Coimbra, Portugal in May 2007.
The 32 revised full papers presented were carefully reviewed and selected from 257 submissions. The papers are organized in topical sessions on transport layer issues, handover and QoS, traffic engineering, audio/video over IP, IEEE 802.11 WLANs, sensor networks, protocols for ad-hoc and mesh networks, as well as OFDM systems.

Fields of interest
Computer Communication Networks; Information Systems Applications (incl. Internet); Software Engineering

Target groups
Researchers and professionals

Type of publication
Proceedings

Due June 2007

2007. XIV, 382 p. Also available online. (Lecture Notes in Computer Science, Volume 4517) Softcover

► * **€ (D) 55,64 | € (A) 57,20 | sFr 85,50**
ISBN 978-3-540-72694-4

J. Cai, University of Wisconsin, Madison, WI, USA; **S. B. Cooper**, University of Leeds, UK; **H. Zhu**, Fudan University, Shanghai, China (Eds.)

Theory and Applications of Models of Computation

4th International Conference, TAMC 2007, Shanghai, China, May 22-25, 2007, Proceedings

This book constitutes the refereed proceedings of the 4th International Conference on Theory and Applications of Models of Computation, TAMC 2007, held in Shanghai, China in May 2007.
The 67 revised full papers presented together with 2 plenary lectures were carefully reviewed and selected from over 500 submissions. All major areas in computer science, mathematics (especially logic) and the physical sciences particularly with regard to computation and computability theory are addressed. The papers – featuring this crossdisciplinary character – particularly focus on algorithms, complexity and computability theory, giving the conference a special flavor and distinction.

Fields of interest
Theory of Computation; Algorithm Analysis and Problem Complexity; Computation by Abstract Devices

Target groups
Researchers and professionals

Type of publication
Proceedings

Due June 2007

2007. XIII, 772 p. Also available online. (Lecture Notes in Computer Science, Volume 4484) Softcover

► * **€ (D) 89,88 | € (A) 92,40 | sFr 138,00**
ISBN 978-3-540-72503-9

C. Cérin, Université de Paris Nord, France; **K. Li**, Providence University, Taichung, Taiwan (Eds.)

Advances in Grid and Pervasive Computing

Second International Conference, GPC 2007, Paris, France, May 2-4, 2007, Proceedings

This book constitutes the refereed proceedings of the Second International Conference on Grid and Pervasive Computing, GPC 2007, held in Paris, France in May 2007.
The 56 revised full papers and 12 revised short papers were carefully selected from 217 submissions during two rounds of reviewing and improvement. The papers address all aspects of grid and pervasive computing and focus on topics such as cluster computing, high performance computing, grid computing, semantic Web and semantic grid, service-oriented computing, peer-to-peer computing, pervasive computing, mobile computing, network storage, as well as grid and pervasive related applications.

Fields of interest
Algorithm Analysis and Problem Complexity; Computer Communication Networks; Information Systems Applications (incl. Internet)

Target groups
Researchers and professionals

Type of publication
Proceedings

Available

2007. XVI, 759 p. Also available online. (Lecture Notes in Computer Science, Volume 4459) Softcover

► * **€ (D) 89,88 | € (A) 92,40 | sFr 138,00**
ISBN 978-3-540-72359-2

P. Cesar, **K. Chorianopoulos**, **J. F. Jensen** (Eds.)

Interactive TV: A Shared Experience

5th European Conference, EuroITV 2007, Amsterdam, the Netherlands, May 24-25, 2007, Proceedings

This book constitutes the refereed proceedings of the 5th European Conference on Interactive Television, EuroITV 2007, held in Amsterdam, The Netherlands in May 2007.
The 24 revised full papers were carefully reviewed and selected from 80 submissions. The volume combines papers from academia and industry covering a wide range of areas such as media studies, audiovisual design, multimedia, human-computer interaction, and management. The papers are organized in topical sections on social TV systems, user studies, the future of TV, social TV evaluation, personalisation, and mobile TV.

Fields of interest
User Interfaces and Human Computer Interaction; Information Systems Applications (incl. Internet); Multimedia Information Systems

Target groups
Researchers and professionals

Type of publication
Proceedings

Due June 2007

2007. XIII, 236 p. Also available online. (Lecture Notes in Computer Science, Volume 4471) Softcover

► * **€ (D) 44,94 | € (A) 46,20 | sFr 69,00**
ISBN 978-3-540-72558-9

T. Chahed, GET/INT, France; **B. Tuffin**, IRISA/INRIA Rennes, France (Eds.)

Network Control and Optimization

First EuroFGI International Conference, NET-COOP 2007, Avignon, France, June 5-7, 2007, Proceedings

This book constitutes the refereed proceedings of the First Euro-FGI International Conference on Network Control and Optimization, NET-COOP 2007, held in Avignon, France in June 2007.
The 22 revised full papers presented together with 9 invited lectures were carefully reviewed and selected from a total of 46 submissions. The papers address all current issues in network control and optimization, ranging from performance evaluation and optimization of general stochastic networks to more specific targets such as lower-layer functionalities in mobile networks, routing for computational grids, game theoretic approaches to access control, cooperation, competition and adversary capacities in diverse environments.

Fields of interest
Computer Communication Networks; Algorithm Analysis and Problem Complexity; Programming Techniques

Target groups
Researchers and professionals

Type of publication
Proceedings

Due June 2007

2007. XIII, 305 p. Also available online. (Lecture Notes in Computer Science, Volume 4465) Softcover

► * **€ (D) 51,36 | € (A) 52,80 | sFr 79,00**
ISBN 978-3-540-72708-8

E. Damiani, **A. Dipanda**, **K. Yetongnon**, **L. Legrand**, **P. Schelkens** (Eds.)

Signal Processing for Image Enhancement and Multimedia Processing

Traditionally, signal processing techniques lay at the foundation of multimedia data processing and analysis. In the past few years, a new wave of advanced signal-processing techniques has delivered exciting results, increasing systems capabilities of efficiently exchanging image data and extracting useful knowledge from them.
Signal Processing for Image Enhancement and Multimedia Processing is an edited volume, written by well-recognized international researchers with extended chapter style versions of the best papers presented at the SITIS 2006 International Conference. This book presents the state-of-the-art and recent research results on the application of advanced signal processing techniques for improving the value of image and video data.
Signal Processing for Image Enhancement Video and Multimedia Processing is designed for a professional audience composed of practitioners and researchers in industry. This book is also suitable for advanced-level students in computer science.

Features
► Discusses feature-based techniques for deep, feature-oriented analysis of images ► Introduces new results on video coding on time-honored topic of securing image information

Fields of interest
Multimedia Information Systems; Information Storage and Retrieval; Computer Graphics

Target groups
Advanced-level students and researchers in computer science

Type of publication
Contributed volume

Due November 2007

2007. Approx. 350 p. (Multimedia Systems and Applications, Volume 34) Hardcover

► approx. *** € (D) 102,99 | € (A) 105,88 | sFr 158,00**
ISBN 978-0-387-72499-7

G. Dong, **X. Lin**, **W. Wang**, **Y. Yang**, **J. X. Yu** (Eds.)

Advances in Data and Web Management

Joint 9th Asia-Pacific Web Conference, APWeb 2007, and 8th International Conference on Web-Age Information Management, WAIM 2007, Huang Shan, China, June 16-18, 2007, Proceedings

This book constitutes the refereed proceedings of the joint 9th Asia-Pacific Web Conference, APWeb 2007, and the 8th International Conference on Web-Age Information Management, WAIM 2007, held in Huang Shan, China in June 2007.
The 47 revised full papers and 36 revised short papers presented together with 4 invited papers and the abstracts of 4 keynote papers were carefully reviewed and selected from a total of 554 submissions. The papers are organized in topical sections on data mining and knowledge discovery, information retrieval, P2P systems, sensor networks, spatial and temporal databases, Web mining, XML and semi-structured data, sensor networks and grids, query processing and optimization, data streams, data integration and collaborative systems, data mining and e-learning, data mining, privacy and security, as well as data mining and data streams.

Fields of interest
Information Systems Applications (incl. Internet); Information Storage and Retrieval

Target groups
Researchers and professionals

Type of publication
Proceedings

Due June 2007

2007. XXII, 896 p. Also available online. (Lecture Notes in Computer Science, Volume 4505) Softcover

► *** € (D) 98,44 | € (A) 101,20 | sFr 151,00**
ISBN 978-3-540-72483-4

T. Downey, Florida International University, Miami, FL, USA

Web Development with Java

Using Hibernate, JSPs and Servlets

Web development is simpler than it seems, especially with the software tools freely available on the web. This book breaks from the tradition of teaching a history of web development and jumps to the good stuff from the outset so that students can start writing real applications. It introduces readers to a 3-tiered, Model-View-Controller architecture by using Hibernate, JSPs, and Java Servlets.
These three technologies all use Java, so that a student with a good background in programming will be able to master them. Java Server Pages are HTML pages that have some data references in them. Java Servlet contain the business logic. Hibernate handles the data.
This book uses existing powerful technologies such as JSP, JavaBeans, Annotations, JSTL, Java 1.5, Hibernate, Apache Velocity and Tomcat. It also presents Model 1 architectures using Servlets and JSP as alternatives to Perl and PHP.

Features
► Focuses on using existing tools that are freely available on the web to speed up web development - A student with a good background in programming will be able to develop a complete web site that accesses a database ► Uses Hibernate as the primary tool to speed web development, as well as JSP ► Uses the model-view-controller (mvc) approach for web development; also known as a three-tiered model

Fields of interest
Information Systems and Communication Service; Information Systems Applications (incl. Internet)

Target groups
Undergraduates

Type of publication
Undergraduate textbook

Due October 2007

2007. Approx. 300 p. Also available online. Softcover

► *** € (D) 48,10 | € (A) 49,45 | sFr 74,00**
ISBN 978-1-84628-862-3

C. Ebert, Vector Consulting Services GmbH, Stuttgart, Germany; **R. Dumke**, University of Magdeburg, Germany

Software Measurement

Establish - Extract - Evaluate - Execute

Our world and our society are shaped and increasingly governed by software. Since software is so ubiquitous and embedded in nearly everything we are doing, we need to stay in control. We have to make sure that the systems and their software are running as we intend - or better. Software measurement is the discipline that assures that we stay in control.

Features
► Describes software measurement in theory and practice ► Introduces quantitative management and Six Sigma ► Presents hands-on experience from industry leaders ► Fully compatible to the ISO 15939 general measurement standard ► Reflects the new CMMI v1.2 with concrete measurement samples for each process area ► Offers practical guidance for IT and software business and management

Contents
Introduction - Making Measurement a Success - Measurement Foundations - Planning the Measurement Process - Performing the Measurement Process - Introducing a Measurement Program - Size and Effort Estimation - Project Management - Defect Removal and Quality Improvement - Measuring Software Systems - Improving Processes and Products - Controlling for IT and Software - Measurement Repositories - Empirical Laws and Rules of Thumb - Communities and Internet Ressources - Glossary - Literature - Index.

Fields of interest
Software Engineering; Management of Computing and Information Systems; Technology Management

Target groups
Professionals, practitioners

Type of publication
Professional book

Due August 2007

2007. Approx. 450 p. Hardcover

► * **€ (D) 69,50 | € (A) 71,45 | sFr 106,50**
ISBN 978-3-540-71648-8

M. Fasli, University of Essex, Colchester, UK; **O. Shehory**, IBM-Haifa Research Lab, Israel (Eds.)

Agent-Mediated Electronic Commerce

Automated Negotiation and Strategy Design for Electronic Markets, AAMAS 2006 Workshop, TADA/AMEC 2006, Hakodate, Japan, May 9, 2006, Selected and Revised Papers

This book constitutes the thoroughly refereed post-proceedings of the joint International Workshops on Trading Agent Design and Analysis, TADA 2006, and on Agent Mediated Electronic Commerce, AMEC VIII 2006, held in Hakodate, Japan, in May 2006 as an associated event of AAMAS 2006, the 5th International Joint Conference on Autonomous Agents and Multiagent Systems.
The 17 revised full papers presented were carefully selected from the presentations made at the workshop and include papers from the annual TAC tournament whose purpose is to stimulate research in trading agents and market mechanisms by providing a platform for agents competing in well-defined market scenarios. The papers address a mix of both theoretical and practical issues in trading agent design and technologies, theoretical and empirical evaluation of strategies in complex trading scenarios as well as mechanism design.

Fields of interest
Artificial Intelligence (incl. Robotics); Computers and Society; Computer Communication Networks

Target groups
Researchers and professionals

Type of publication
Proceedings

Due June 2007

2007. VIII, 249 p. Also available online. (Lecture Notes in Computer Science, Volume 4452) Softcover

► * **€ (D) 45,00 | € (A) 46,27 | sFr 69,00**
ISBN 978-3-540-72501-5

J. Filipe, **J. Ferrier**, **J. A. Cetto**, **M. Carvalho** (Eds.)

Informatics in Control, Automation and Robotics II

Informatics in Control, Automation and Robotics II is a collection of the best papers presented at the 2nd International Conference on Informatics in Control, Automation and Robotics (ICINCO). The purpose of ICINCO was to bring together researchers, engineers and practitioners interested in the application of informatics to Control, Automation and Robotics. The research papers focused on real world applications, covering three main themes: Intelligent Control Systems, Optimization, Robotics and Automation and Signal Processing, Systems Modeling and Control.
Informatics applications are pervasive in many areas of Control, Automation and Robotics. This book will be of interest to professionals working on the control and robotics area, especially those who need to maintain knowledge about current trends in development methods and applications.

Features
► Gives a survey of recent developments in the application of information technologies to the robotics area

From the contents
Preface. Conference Committee. Invited Speakers. Invited Papers.- Part 1 - Intelligent control systems and optimization.- Part 2 - Robotics and automation.- Part 3 - Signal processing, systems modeling and control.- Author Index.

Fields of interest
Computer Science, general; Automation and Robotics; Control Structures and Microprogramming

Target groups
Researchers and developers in the areas of Automation, Control and Robotics

Type of publication
Proceedings

Available

2007. XV, 245 p. Hardcover

► * **€ (D) 128,35 | € (A) 131,95 | sFr 197,00**
ISBN 978-1-4020-5625-3

E. Franconi, **M. Kifer**, **W. May** (Eds.)

The Semantic Web: Research and Applications

4th European Semantic Web Conference, ESWC 2007, Innsbruck, Austria, June 3-7, 2007, Proceedings

This book constitutes the refereed proceedings of the 4th European Semantic Web Conference, ESWC 2007, held in Innsbruck, Austria, in June 2007.
The 46 revised full papers presented together with 4 invited talks and 10 system descriptions were carefully reviewed and selected from a total of 278 submitted papers. The papers are organized in topical sections on semantic Web services, ontology learning, inference and mapping, case studies, social semantic Web, ontologies: requirements and analysis, personalization, foundations of the semantic Web, natural languages and ontologies, applications, querying and Web data models, as well as system descriptions.

Fields of interest
Information Systems Applications (incl. Internet); Computer Communication Networks; Software Engineering

Target groups
Researchers and professionals

Type of publication
Proceedings

Due June 2007

2007. XVIII, 830 p. Also available online. (Lecture Notes in Computer Science, Volume 4519) Softcover

► * **€ (D) 93,09 | € (A) 95,70 | sFr 143,00**
ISBN 978-3-540-72666-1

M. Gertz, University of California at Davis, CA, USA; **S. Jajodia**, George Mason University, Fairfax, VA, USA (Eds.)

Handbook of Database Security

Applications and Trends

Handbook of Database Security: Applications and Trends provides an up-to-date overview of data security models, techniques, and architectures in a variety of data management applications and settings. In addition to providing an overview of data security in different application settings, this book includes an outline for future research directions within the field.
An edited volume by world renowned leaders within data security, Handbook of Database Security: Applications and Trends has a particular focus on data centric security aspects that reaches beyond traditional and well-studied data security aspects in databases.
Handbook of Database Security: Applications and Trends is designed for industry practitioners and researchers, and is also suitable for advanced-level students in computer science.

Features
► Most comprehensive work on data security aspects published in the last 10 years ► Includes SQL standards and security in commercial and open-source database management systems
► Outlines future research direction in the field

Fields of interest
Database Management; Data Encryption; Information Storage and Retrieval

Target groups
Professional audience

Type of publication
Contributed volume

Due October 2007

2007. Approx. 450 p. Hardcover

► approx. *** € (D) 147,50 | € (A) 151,64 | sFr 226,00**
ISBN 978-0-387-48532-4

S. P. Gill, Cambridge, UK (Ed.)

Cognition, Communication and Interaction

Transdisciplinary Perspectives on Interactive Technology

Cognition, Communication and Interaction examines the theoretical and methodological research issues that underlie the design and use of interactive technology. Present interactive designs are addressing the multi-modality of human interaction and the multi-sensory dimension of how we engage with each other. This book aims to provide a trans-disciplinary research framework and methodology for interaction design. The analysis directs attention to three human capacities that our engagement with interactive technology has made salient and open to constant redefinition. These capacities are human cognition, communication and interaction.
In this book examination of these capacities is embedded in understanding the following foundations for design: concepts of 'communication and interaction' and their application (Part 1); conceptions of 'knowledge and cognition' (Part 2); the role of aesthetics and ethics in design (Part 3).

Features
► A new direction of research in interactive technologies, bringing together cognition, communication and interaction within a unified theoretical framework

Fields of interest
User Interfaces and Human Computer Interaction; Computing Methodologies; Information Systems Applications (incl. Internet)

Target groups
Researchers; practitioners; designers

Type of publication
Collected works

Due October 2007

2007. Approx. 612 p. (Human-Computer Interaction Series, Volume 11) Hardcover

► approx. *** € (D) 85,55 | € (A) 87,95 | sFr 131,00**
ISBN 978-1-84628-926-2

S. Gorlatch, Univ. of Muenster, Germany; **M. Bubak**, Institute of C.S. AGH, Krakow, Poland; **T. Priol**, IRISA/INRIA, Rennes, France (Eds.)

Integration of Research in Grid Computing

This volume comprises the edited proceedings of the second CoreGRID Integration Workshop (CGIW'2006), held October 2006 in Krakow, Poland. A „Network of Excellence" funded by the European Commission's Sixth Framework Program, CoreGRID aims to strengthen and advance scientific and technological excellence in the area of Grid and Peer-to-Peer technologies by bringing together a critical mass of well-established researchers from 41 European research institutions.
Integration of Research in Grid Computing covers, though is not limited to, the following topics: Knowledge and data management; programming models; System architecture; Grid information, Resource and workflow monitoring services; Resource management and scheduling; Systems, tools and environments; Trust and security issues on the Grid.
Designed for a professional audience of industry practitioners and researchers, Integration of Research in Grid Computing is also suitable for advanced-level students in computer science.

Features
► Brings together worldwide distinguished leaders in research and industry within Grid Computing ► Presents best papers, following additional round of peer-review

Fields of interest
Computer Communication Networks; Database Management; Computer Systems Organization and Communication Networks

Target groups
Professionals and advanced-level students

Type of publication
Contributed volume

Due September 2007

2007. Approx. 300 p. 20 illus. Hardcover

► approx. *** € (D) 111,23 | € (A) 114,35 | sFr 170,50**
ISBN 978-0-387-72811-7

J. A. Gutierrez, Emerson Corporation, St. Louis, MO, USA; **B. S. Armstrong**, University of Wisconsin, Milwaukee, WI, USA

Precision Landmark Location for Machine Vision and Photogrammetry

Finding and Achieving the Maximum Possible Accuracy

The applications of image-based measurement are many and various: image-guided surgery, mobile-robot navigation, component alignment and photogrammetry, among others.
This book addresses the problem of measurement error associated with determining the location of landmarks in images. The least possible photogrammetric uncertainty in a given situation is determined using the Cramér–Rao Lower Bound (CRLB).
This monograph provides the reader with: the most complete treatment to date of precision landmark location and the engineering aspects of image capture and processing; detailed theoretical treatment of the CRLB; a software tool for analyzing the potential performance-specific camera/lens/algorithm configurations; two novel algorithms which achieve precision very close to the CRLB; a method for determining the accuracy of landmark location; a downloadable MATLAB® package to assist the reader with applying theoretically-derived results to practical engineering configurations.

Fields of interest
Image Processing; Automation and Robotics; Remote Sensing/Photogrammetry

Target groups
Engineers and scientists working in photo- and videogrammetry, in image metrology or in industrial automation also in human-motion analysis and motion capture for medicine, virtual reality and digital animation systems; corporate libraries of companies working in the above areas

Type of publication
Monograph

Due December 2007

2008. Approx. 160 p. 78 illus. Also available online. Hardcover

► *** € (D) 90,90 | € (A) 93,45 | sFr 139,50**
ISBN 978-1-84628-912-5

M. Haindl, **J. Kittler**, **F. Roli** (Eds.)

Multiple Classifier Systems

7th International Workshop, MCS 2007, Prague, Czech Republic, May 23-25, 2007, Proceedings

This book constitutes the refereed proceedings of the 7th International Workshop on Multiple Classifier Systems, MCS 2007, held in Prague, Czech Republic in May 2007.
The 49 revised full papers presented together with 2 invited papers were carefully reviewed and selected from more than 80 initial submissions. The papers are organized in topical sections on kernel-based fusion, applications, boosting, cluster and graph ensembles, feature subspace ensembles, multiple classifier system theory, intramodal and multimodal fusion of biometric experts, majority voting, and ensemble learning.

Fields of interest
Pattern Recognition; Image Processing; Artificial Intelligence (incl. Robotics)

Target groups
Researchers and professionals

Type of publication
Proceedings

Due June 2007

2007. XI, 524 p. Also available online. (Lecture Notes in Computer Science, Volume 4472) Softcover

► *** € (D) 68,48 | € (A) 70,40 | sFr 105,00**
ISBN 978-3-540-72481-0

R. Hecht-Nielsen, University of California San Diego, La Jolla, CA, USA

Confabulation Theory

The Mechanism of Thought

Confabulation theory addresses the premier scientific question: How does brain information processing, or cognition, work? Cognition is an outgrowth of movement: brain modules, discrete bodies of neuronal tissue which function like muscles, evolved specifically to exploit pre-existing neuronal muscle-control mechanisms and were successfully redeployed to carry out all types of cognition in macroscopic animals.
Each brain module describes one attribute, via activation of one of many symbols, collections of specialized neurons. An individual axonal knowledge link unidirectionally connects a source symbol in a module with a second meaningfully co-occurring target symbol in a second module.

Features
► First book on confabulation to offer a coherent, textbook style explanation of this new theory of cognition

Contents
Introduction.- Viewcells from IBM Almaden Institute Talk on Cognitive Computing.- The Mathematics of Thought.- Cogent Confabulation.- Confabulation Neuroscience.- The Mechanism of Thought.- Mechanization of Confabulation.- Biological Cognition.- Index

Also available in
Significant research names to endorse and review, prior to publication. More details later.

Fields of interest
Artificial Intelligence (incl. Robotics); Neurosciences; Cognitive Psychology

Target groups
Researchers, scientists, students

Type of publication
Monograph

Due June 2007

Only available in print

2007. Approx. 290 p. With 2 DVDs. Hardcover

► *** € (D) 74,85 | € (A) 76,95 | sFr 115,00**
ISBN 978-3-540-49603-8

T. S. Huang, **A. Nijholt**, **M. Pantic**, **A. Pentland** (Eds.)

Artifical Intelligence for Human Computing

ICMI 2006 and IJCAI 2007 International Workshops, Banff, Canada, November 3, 2006, Hyderabad, India, January 6, 2007, Revised Selceted Papers

This book constitutes the thoroughly refereed post-proceedings of two events discussing AI for Human Computing; one Special Session during the Eighth International ACM Conference on Multimodal Interfaces (ICMI 2006), held in Banff, Canada, in November 2006 and a Workshop organized in conjunction with the 20th International Joint Conference on Artificial Intelligence (IJCAI 2007), held in Hyderabad, India, in January 2007. A large number of the contributions in this state-of-the-art survey are updated and extended versions of the papers presented during these two events. In order to obtain a more complete overview of research efforts in the field of human computing, a number of additional invited contributions are included in this book on AI for human computing.

Fields of interest
Artificial Intelligence (incl. Robotics); User Interfaces and Human Computer Interaction; Computer Graphics

Target groups
Researchers and professionals

Type of publication
Proceedings

Due June 2007

2007. XVI, 359 p. Also available online. (Lecture Notes in Computer Science, Volume 4451) Softcover

► *** € (D) 53,50 | € (A) 55,00 | sFr 82,00**
ISBN 978-3-540-72346-2

J. Huang, **R. Kowalczyk**, **Z. Maamar**, **D. Martin**, **I. Müller**, **S. Stoutenburg**, **K. Sycara** (Eds.)

Service-Oriented Computing: Agents, Semantics, and Engineering

AAMAS 2007 International Workshop, SOCASE 2007, Honolulu, HI, USA, May 14, 2007, Proceedings

This book constitutes the refereed proceedings of the International Workshop on Service-Oriented Computing: Agents, Semantics, and Engineering, SOCASE 2007, held in Honolulu, HI, USA as an associated event of AAMAS 2007, the main international conference on autonomous agents and multi-agent systems. The volume is rounded off with selected four best papers from the Service-Oriented Computing and Agent-based Engineering Workshop, SOCABE 2006, held at AAMAS 2006.
The 12 revised full papers presented were carefully reviewed and selected for inclusion in the book. The papers cover a range of topics at the intersection of service-oriented computing, semantic technology and intelligent multiagent systems, such as: service description and discovery; planning, composition and negotiation; semantic processes and service agents; as well as applications.

Fields of interest
Information Systems Applications (incl. Internet); Database Management

Target groups
Researchers and professionals

Type of publication
Proceedings

Due June 2007

2007. X, 175 p. Also available online. (Lecture Notes in Computer Science, Volume 4504) Softcover

► *** € (D) 44,94 | € (A) 46,20 | sFr 69,00**
ISBN 978-3-540-72618-0

A. K. Jain, **P. Flynn**, **A. A. Ross** (Eds.)

Handbook of Biometrics

Biometrics is a rapidly evolving field with applications ranging from accessing one's computer to gaining entry into a country. The deployment of large-scale biometric systems in both commercial and government applications has served to increase the public's awareness of this technology. This rapid growth has highlighted the challenges associated with designing and deploying biometric systems. Indeed, the problem of biometric authentication is a Grand Challenge in its own right. Significant growth in biometric research in recent years has resulted in the development of innovative sensors, new algorithms, enhanced test methodologies and novel applications. The Handbook of Biometrics comprises chapters authored by prominent Biometric researchers describing the fundamentals and the latest innovations in their areas of expertise. This unique and timely volume is designed for researchers and advanced-level students in computer science. It is also suitable for Biometric and Computer Security professionals.

Features
► No other single book succinctly captures the advancements made in all aspects of biometrics in recent years while presenting the reader with a fundamental understanding of basic concepts in various biometric traits ► Consistent terminology based on recently developed standards ► A comprehensive book with chapters authored by prominent researchers in biometrics

Fields of interest
Pattern Recognition; Image Processing; Data Encryption

Target groups
Research scientists

Type of publication
Handbook

Due August 2007

2008. Approx. 600 p. Hardcover

► approx. *** € (D) 57,67 | € (A) 59,29 | sFr 88,50**
ISBN 978-0-387-71040-2

H. Kalva, Florida Atlantic University, Boca Raton, FL, USA; **J. Lee**, Sarnoff Corp., Princeton, NJ, USA

The VC-1 and H.264 Video Compression Standards for Broadband Video Services

The MPEG committee recently standardized the MPEG AVC (H.264) video coding standard. This is a highly efficient compression standard that can make high-quality video services possible over broadband networks. A competing standard developed by Microsoft, VC-1 was standardized in SMPTE in August 2005, and this novel standard is also seeing significant industry interest. These two standards are expected to form the basis for high-quality broadband video services. The VC-1 and H.264 Video Compression Standards for Broadband Video Services covers these video coding standards as well as issues in broadband video delivery over IP networks.
This professional reference is designed for industry practitioners, including video engineers, and professionals in consumer electronics, telecommunications and media compression industries. This volume is also suitable as a secondary text for advanced-level students in computer science and electrical engineering.

Contents
Preface.- Multimedia Systems.- Encapsulation and Syntax Hierarchies.- HRD Models and Rate Control.- Bitstream Syntax.- Transform and Quantization.- Intra Prediction.- Inter Prediction.- Motion Estimation and Compensation with Interpolation.- In-Loop Deblocking Operations.- Post-Processing.- Shape/Alpha Plane Coding.- HD-DVD and Blu-ray Provisions.- Index.

Fields of interest
Multimedia Information Systems; Information Storage and Retrieval; Computer Communication Networks

Target groups
Professionals

Type of publication
Monograph

Due November 2007

2007. XX, 320 p. 20 illus. (Multimedia Systems and Applications, Volume 31) Hardcover

► approx. *** € (D) 115,35 | € (A) 118,58 | sFr 177,00**
ISBN 978-0-387-71042-6

R. Klima, **S. Selberherr**, Technische Universität Wien

Programmieren in C

C ist eine der bedeutendsten Programmiersprachen und wird heute sehr häufig eingesetzt. Die Autoren haben jahrelange Erfahrung in der Programmierung mit C, der Vermittlung von Programmiersprachen und Programmiermethodik in das Lehrbuch einfließen lassen. Der Leser soll nicht von der Komplexität und den vielen Möglichkeiten der Sprache C überfordert werden, sondern das Wesentliche – die Programmiermethodik – lernen. Was ist Programmieren? Wie werden programmtechnische Probleme gelöst? Wie beginnen? Diese Fragen werden ebenso behandelt wie die Lösung komplexerer Aufgaben. Schrittweise wird die Programmierung anhand der Sprache C erlernt und mit Beispielen und Aufgaben vertieft und wiederholt. Der Sprachumfang von C wird vorgestellt und kritisch betrachtet, um typische Fallen zu vermeiden. Nach grundlegenden Betrachtungen und fundierter Behandlung der Sprache C befassen sich die letzten Kapitel mit Verfahren, Methoden und Problemen, die in der Programmierung häufig anzutreffen sind.

Pluspunkte
► Schwerpunkt auf Programmiermethodik ► Schrittweise Heranführung an komplexere Probleme ► Viele konstruktive Hinweise, Beispiele und Aufgaben ► Keine Vorkenntnisse von C oder anderen Programmiersprachen vorausgesetzt

Fachgebiete
Programmiersprachen und Interpreter; Software Engineering, Programmierung und Betriebssysteme; Programmiertechniken

Zielgruppen
Studenten, Wissenschaftler, Techniker, Programmierer

Kategorie
Einführendes Lehrbuch

Erscheint September 2007

Nur gedruckte Ausgabe erhältlich

2. Aufl. 2007. XVI, 354 S. 75 Abb. Brosch.

► approx. **€ (D) 39,95 | € (A) 39,95 | sFr 61,50**
ISBN 978-3-211-72000-4

Z. Kobti, **D. Wu**, University of Windsor, ON, Canada (Eds.)

Advances in Artificial Intelligence

20th Conference of the Canadian Society for Computational Studies of Intelligence, Canadian AI 2007, Montreal, Canada, May 28-30, 2007, Proceedings

This book constitutes the refereed proceedings of the 20th Conference of the Canadian Society for Computational Studies of Intelligence, Canadian AI 2007, held in Montreal, Canada, in May 2007. The 46 revised full papers presented were carefully reviewed and selected from 260 submissions. The papers are organized in topical section on agents, bioinformatics, classification, constraint satisfaction, data mining, knowledge representation and reasoning, learning, natural language, and planning.

Field of interest
Artificial Intelligence (incl. Robotics)

Target groups
Researchers and professionals

Type of publication
Proceedings

Due June 2007

2007. XII, 552 p. Also available online (Lecture Notes in Computer Science, Volume 4509) Softcover

► * **€ (D) 72,76 | € (A) 74,80 | sFr 111,50**
ISBN 978-3-540-72664-7

M. Kowalkiewicz, **M. E. Orlowska**, **T. Kaczmarek**, **W. Abramowicz**

Web Information Extraction and Integration

Currently, there exists an overburdening growth in the number of reliable information sources on the Internet. At the same time, temporal and cognitive resources of human users are not changing. In an effort to curtail the information overload resulting from this conflict, recent research has attempted to provide methods and tools for web content extraction and aggregation. Success in these areas will greatly enhance business processes, and provide information seekers with new tools allowing them to reduce their time and cost involvement.
This book focuses on web content extraction and deep web data integration, and the methods and tools used, as well as analyzing the limitations of existing technology and solutions. This volume presents an accessible, well-organized and comprehensive survey of this discipline. Professionals, researchers, and academics involved in information technology will all find this book a timely and essential reference.

Features
► Extensive analysis of existing systems in Web Content Extraction and Deep Web Data Extraction ► A comprehensive overview of the subject, both theoretical and practical ► Presentation and discussion of original content and data extraction methods, designed to be used by non-specialist users (all approaches to date present methods requiring a degree in CS to be used)

Fields of interest
Information Systems Applications (incl. Internet); Information Storage and Retrieval; Database Management

Target groups
Professionals, researchers and academics in information technology

Type of publication
Monograph

Due August 2007

2007. Approx. 255 p. (Web Information Systems Engineering and Internet Technologies Book Series, Volume 5) Hardcover

► approx. * **€ (D) 89,83 | € (A) 92,35 | sFr 137,50**
ISBN 978-0-387-72769-1

J. Krogstie, NTNU, Trondheim, Norway; **A. L. Opdahl**, University of Bergen, Norway; **S. Brinkkemper**, Universitiy of Utrecht, The Netherlands (Eds.)

Conceptual Modelling in Information Systems Engineering

Conceptual modeling has always been one of the cornerstones for information systems engineering as it describes the general knowledge of the system in the so-called conceptual schema.
Krogstie, Opdahl and Brinkkemper compiled 20 contributions from renowned researchers covering all aspects of conceptual modeling on the occasion of Arne Sølvberg's 67th birthday. Many friends of this information systems modeling pioneer happily contributed their latest research results from fields like data modeling, goal-oriented modeling, agent-oriented modeling, and process-oriented modeling. Overall, the contributions reflect the most important developments and application areas of conceptual modeling in recent years, and they also pinpoint trends in conceptual modeling for the next decade.

From the contents
1) From Information Algebra to Enterprise Modelling and Ontologies – a Historical Perspective on Modelling for Information Systems (Janis A. Bubenko jr.) - 2) Fact Oriented Modeling: Past, Present and Future (Terry Halpin) - 3) Data Integration - Problems, Approaches, and Perspectives (Patrick Ziegler, Klaus R. Dittrich) - 4) Challenges to Conceptual Modeling (Bernhard Thalheim) - 5) Interoperable Management of Conceptual Models (Andreas L. Opdahl, Guttorm Sindre) - 6) Uniform and Flexible Data Management in Workflow Management Systems (Johann Eder, Marek Lehmann) - 7) Using Models in Enterprise Systems Projects (Jon Atle Gulla) - 8) The Role of Business Models in Enterprise Modelling (Paul Johannesson) - 9) Capturing System Intentionality with Maps (Colette Rolland) - 10) Conceptual Modeling and Software Design of Multi-Agent Systems (David Kung, Krishna Kavi) - 11) Agent Approach to Online Legal Trade (Antje Dietrich, Peter C. Lockemann, Oliver Raabe).

Fields of interest
Software Engineering; Models and Principles; Information Systems Applications (incl. Internet)

Target groups
Researchers, libraries

Type of publication
Monograph

Due June 2007

2007. Approx. 350 p. Hardcover

► * **€ (D) 80,20 | € (A) 82,45 | sFr 123,00**
ISBN 978-3-540-72676-0

D. Lau, Universiät Rostock

Übungsbuch zur Linearen Algebra und analytischen Geometrie

Aufgaben mit Lösungen

Ausführlich werden in diesem Buch Aufgaben unterschiedlichen Schwierigkeitsgrades zu den Grundbegriffen der Mathematik, der Linearen Algebra und analytischen Geometrie sowie der Numerischen Algebra behandelt und deren Lösungen aufgezeigt. Ein Teil der Aufgaben zeigt Anwendungen und stellt Querverbindungen zu anderen mathematischen Gebieten her. Viele Hinweise zu den benötigten mathematischen Grundlagen unterstützen das selbständige Bearbeiten der Aufgaben, womit dieses Buch dem Nachbereiten von Vorlesungen und dem Vorbereiten auf Prüfungen dient. Das Buch richtet sich an Studierende der Informatik, Mathematik und Physik. Lehrende finden in diesem Buch genügend Material für die Übungen zu einer Vorlesung und zum Stellen von Hausaufgaben.

Pluspunkte
► Einzigartige Mischung zwischen Rechenaufgaben und Aufgaben, die das fachliche Hintergrundwissen testen ► Viele Aufgaben auch zu den Grundlangen der Mathematik ► Für die neue Modulstruktur der Studiengänge ideale Ergänzung zu jedem Lehrbuch der Linearen Algebra und Diskreten Mathematik

Fachgebiete
Diskrete Mathematik in der Informatik; Lineare und Multilineare Algebra, Matrizentheorie; Ordnung, Verbände, Geordnete Algebraische Strukturen

Zielgruppen
Studierende und Dozenten aus den Bereichen Informatik, Mathematik und Physik

Kategorie
Lehrbuch

Erscheint September 2007

2007. Etwa 240 S. (Springer-Lehrbuch) Brosch.

► **€ (D) 19,95 | € (A) 20,50 | sFr 31,00**
ISBN 978-3-540-72365-3

E. Law, ETH Zurich, Switzerland; **E. Hvannberg**, University of Iceland, Reykjavik, Iceland; **G. Cockton**, University of Sunderland, UK (Eds.)

Maturing Usability

Quality in Software, Interaction and Value

"Maturing Usability" provides an understanding of how current research and practice has contributed towards improving quality issues in software, interaction and value.
Divided into three parts, 'Quality in Software' looks at how using development tools can enhance the usability of a system, and how methods and models can be integrated into the process to help develop effective user interfaces. 'Quality in Interaction' addresses theoretical frameworks on the nature of interactions; techniques and metrics for evaluation interaction quality; and the transfer of concepts and methods from research to practice. Finally, 'Quality in Value' assesses the impact that a system has in the real world, focusing on increasing the value of usability practice for software development and on increasing value for users.
A balance between theoretical and empirical approaches is maintained throughout, and all those interested in exploring usability issues in human-computer interaction will find this a very useful book.

Features
► Three major perspectives of evaluating quality are addressed, quality in software, quality in interaction and quality in value ► Includes chapters on new methods/approaches that will enhance the field of usability

Fields of interest
User Interfaces and Human Computer Interaction; Software Engineering

Target groups
Academic and industrial researchers and developers

Type of publication
Contributed volume

Due January 2008

2007. Approx. 600 p. (Human-Computer Interaction Series, Volume 10) Hardcover

► * **€ (D) 99,46 | € (A) 102,25 | sFr 152,50**
ISBN 978-1-84628-940-8

Y. Lee, **H. Kim**, **J. Kim**, **Y. Park**, **L. T. Yang**, **S. W. Kim** (Eds.)

Embedded Software and Systems

Third International Conference, ICESS 2007, Daegu, Korea, May 14-16, 2007, Proceedings

This book constitutes the refereed proceedings of the Third International Conference on on Embedded Software and Systems, ICESS 2007, held in Daegu, Korea in May 2007.
The 75 revised full papers presented were carefully reviewed and selected from 346 submissions.
The papers are organized in topical sections on embedded architecture, embedded hardware, embedded software, HW-SW co-design and SoC, multimedia and HCI, pervasive/ubiquitous computing and sensor network, power-aware computing, real-time systems, security and dependability, and wireless communication.

Fields of interest
Computer Communication Networks; Software Engineering; Operating Systems

Target groups
Researchers and professionals

Type of publication
Proceedings

Due June 2007

2007. XIX, 829 p. Also available online. (Lecture Notes in Computer Science, Volume 4523) Softcover

► * **€ (D) 93,09 | € (A) 95,70 | sFr 143,00**
ISBN 978-3-540-72684-5

W. Lehner, N. Meyer, A. Streit, C. Stewart (Eds.)

Euro-Par 2006 Parallel Processing

Workshops: CoreGRID 2006, UNICORE Summit 2006, Petascale Computational Biology and Bioinformatics, Dresden, Germany, August 29-September 1, 2006, Revised Selected Papers

This book constitutes the thoroughly refereed joint post-proceedings of the three International Workshops on Grid Middleware, CoreGrid 2006, the UNICORE Summit 2006, and the Workshop on Petascale Computational Biology and Bioinformatics, held in Dresden, Germany, in August/September 2006, in conjunction with Euro-Par 2006, the 12th International Conference on Parallel Computing.
The 29 revised full papers presented were carefully reviewed and selected from a total of 50 submissions. The 16 papers presented at the CoreGRID Workshop on Grid Middleware focused on knowledge and data management on grids, grid resource management and scheduling, as well as grid information, resource and workflow monitoring services.

Fields of interest
Computer Systems Organization and Communication Networks; Software Engineering/Programming and Operating Systems; Theory of Computation

Target groups
Researchers and professionals

Type of publication
Proceedings

Due June 2007

2007. XV, 332 p. Also available online. (Lecture Notes in Computer Science, Volume 4375) Softcover

► * **€ (D) 51,36 | € (A) 52,80 | sFr 79,00**
ISBN 978-3-540-72226-7

D. Liu, S. Fei, Z. Hou, H. Zhang, C. Sun (Eds.)

Advances in Neural Networks - ISNN 2007

4th International Symposium on Neutral Networks, ISNN 2007, Nanjing, China, June 3-7, 2007. Proceedings, Part I

The three volume set LNCS 4491/4492/4493 constitutes the refereed proceedings of the 4th International Symposium on Neural Networks, ISNN 2007, held in Nanjing, China in June 2007. The 262 revised long papers and 192 revised short papers presented were carefully reviewed and selected from a total of 1.975 submissions. The papers are organized in topical sections on neural fuzzy control, neural networks for control applications, adaptive dynamic programming and reinforcement learning, neural networks for nonlinear systems modeling, robotics, stability analysis of neural networks, learning and approximation, data mining and feature extraction, chaos and synchronization, neural fuzzy systems, training and learning algorithms for neural networks, neural network structures, neural networks for pattern recognition, SOMs, ICA/PCA, biomedical applications, feedforward neural networks, recurrent neural networks, neural networks for optimization, support vector machines, fault diagnosis/detection, communications and signal processing, image/video processing, and applications of neural networks.

Fields of interest
Computation by Abstract Devices; Computer Communication Networks; Algorithm Analysis and Problem Complexity

Target groups
Researchers and professionals

Type of publication
Proceedings

Due June 2007

2007. LIV, 1365 p. Also available online. (Lecture Notes in Computer Science, Volume 4491) Softcover

► * **€ (D) 130,54 | € (A) 134,20 | sFr 200,00**
ISBN 978-3-540-72382-0

D. Liu, S. Fei, Z. Hou, H. Zhang, C. Sun (Eds.)

Advances in Neural Networks - ISNN 2007

4th International Symposium on Neutral Networks, ISNN 2007, Nanjing, China, June 3-7, 2007. Proceedings, Part II

The three volume set LNCS 4491/4492/4493 constitutes the refereed proceedings of the 4th International Symposium on Neural Networks, ISNN 2007, held in Nanjing, China in June 2007. The 262 revised long papers and 192 revised short papers presented were carefully reviewed and selected from a total of 1.975 submissions. The papers are organized in topical sections on neural fuzzy control, neural networks for control applications, adaptive dynamic programming and reinforcement learning, neural networks for nonlinear systems modeling, robotics, stability analysis of neural networks, learning and approximation, data mining and feature extraction, chaos and synchronization, neural fuzzy systems, training and learning algorithms for neural networks, neural network structures, neural networks for pattern recognition, SOMs, ICA/PCA, biomedical applications, feedforward neural networks, recurrent neural networks, neural networks for optimization, support vector machines, fault diagnosis/detection, communications and signal processing, image/video processing, and applications of neural networks.

Fields of interest
Computation by Abstract Devices; Computer Communication Networks; Algorithm Analysis and Problem Complexity

Target groups
Researchers and professionals

Type of publication
Proceedings

Due June 2007

2007. XXVII, 1321 p. Also available online. (Lecture Notes in Computer Science, Volume 4492) Softcover

► * **€ (D) 128,40 | € (A) 132,00 | sFr 197,00**
ISBN 978-3-540-72392-9

D. Liu, S. Fei, Z. Hou, H. Zhang, C. Sun (Eds.)

Advances in Neural Networks - ISNN 2007

4th International Symposium on Neural Networks, ISNN 2007, Nanjing, China, June 3-7, 2007. Proceedings, Part III

The three volume set LNCS 4491/4492/4493 constitutes the refereed proceedings of the 4th International Symposium on Neural Networks, ISNN 2007, held in Nanjing, China in June 2007. The 262 revised long papers and 192 revised short papers presented were carefully reviewed and selected from a total of 1.975 submissions. The papers are organized in topical sections on neural fuzzy control, neural networks for control applications, adaptive dynamic programming and reinforcement learning, neural networks for nonlinear systems modeling, robotics, stability analysis of neural networks, learning and approximation, data mining and feature extraction, chaos and synchronization, neural fuzzy systems, training and learning algorithms for neural networks, neural network structures, neural networks for pattern recognition, SOMs, ICA/PCA, biomedical applications, feedforward neural networks, recurrent neural networks, neural networks for optimization, support vector machines, fault diagnosis/detection, communications and signal processing, image/video processing, and applications of neural networks.

Fields of interest
Computation by Abstract Devices; Computer Communication Networks; Algorithm Analysis and Problem Complexity

Target groups
Researchers and professionals

Type of publication
Proceedings

Due June 2007

2007. XXVI, 1215 p. Also available online. (Lecture Notes in Computer Science, Volume 4493) Softcover

► * **€ (D) 119,84 | € (A) 123,20 | sFr 183,50**
ISBN 978-3-540-72394-3

M. Malek, M. Reitenspieß, A. van Moorsel (Eds.)

Service Availability

4th International Service Availability Symposium, ISAS 2007, Durham, NH, USA, May 21-22, 2007, Proceedings

This book constitutes the refereed proceedings of the 4th International Service Availability Symposium, ISAS 2007, held in Durham, NH, USA in May 2007.
The 12 revised full papers presented were carefully reviewed and selected from 25 submissions. The papers are organized in topical sections on middleware, software systems, modeling and analysis, as well as model-driven development and human engineering.

Fields of interest
Computer Communication Networks; Information Systems Applications (incl. Internet); Information Storage and Retrieval

Target groups
Researchers and professionals

Type of publication
Proceedings

Due June 2007

2007. X, 155 p. Also available online. (Lecture Notes in Computer Science, Volume 4526) Softcover

► * **€ (D) 44,94 | € (A) 46,20 | sFr 69,00**
ISBN 978-3-540-72735-4

P. Manoonpong, University of Goettingen, Germany

Neural Preprocessing and Control of Reactive Walking Machines

Towards Versatile Artificial Perception-Action Systems

This book presents biologically inspired walking machines interacting with their physical environment. It describes how the designs of the morphology and the behavior control of walking machines can benefit from biological studies. The purpose of this book is to develop a modular structure of neural control generating different reactive behaviors of the physical walking machines, to analyze the neural mechanisms underlying the reactive behaviors, and to demonstrate the sensor fusion technique leading to smooth switching between appropriate behaviors, like obstacle avoidance and sound tropism.
The author offers an example of artificial perception-action systems and emphasizes the close relationship between biological studies, computational neuroscience and engineering. The book will be of interest to researchers, engineers and students in the fields of robotics, biologically inspired mechatronics, electronics engineering, control, and artificial intelligence.

Features
► Offers an example of artificial perception-action systems emphasizing the close relationship between biological studies, computational neuroscience and engineering

Contents
Introduction.- Biologically Inspired Perception-Action Systems.- Neural Concepts and Modelling.- Physical Sensors and Walking Machine Platforms.- Artificial Perception-Action Systems.- Performance of Artificial Perception-Action Systems.- Conclusions.- App. A - Description of the Reactive Walking Machines.- Symbols and Acronyms.- References.- Index

Fields of interest
Artificial Intelligence (incl. Robotics); Automation and Robotics; Neurosciences

Target groups
Researchers, practitioners, graduate students

Type of publication
Monograph

Due June 2007

2007. XVI, 188 p. 142 illus. (Cognitive Technologies) Hardcover

► * **€ (D) 58,80 | € (A) 60,45 | sFr 90,50**
ISBN 978-3-540-68802-0

M. Naor, Weizmann Institute of Science, Rehovot, Israel (Ed.)

Advances in Cryptology - EUROCRYPT 2007

26th Annual International Conference on the Theory and Applications of Cryptographic Techniques, Barcelona, Spain, May 20-24, 2007, Proceedings

This book constitutes the refereed proceedings of the 26th Annual International Conference on the Theory and Applications of Cryptographic Techniques, EUROCRYPT 2007, held in Barcelona, Spain in May 2007.
The 33 revised full papers presented were carefully reviewed and selected from 173 submissions. The papers address all current foundational, theoretical and research aspects of cryptology, cryptography, and cryptanalysis as well as advanced applications.

Fields of interest
Data Encryption; Computer Communication Networks;

Target groups
Researchers and professionals

Type of publication
Proceedings

Due June 2007

2007. XIII, 591 p. Also available online. (Lecture Notes in Computer Science, Volume 4515) Softcover

► * **€ (D) 77,04 | € (A) 79,20 | sFr 118,00**
ISBN 978-3-540-72539-8

N. T. Nguyen, Wroclaw University of Technology, Poland

Advanced Methods for Inconsistent Knowledge Management

The need for resolution of knowledge inconsistency arises in many practical applications of computer systems. This kind of inconsistency results from the use of various resources of knowledge in realizing practical tasks. These resources often are autonomous and use different mechanisms for processing knowledge about the same real world. This can lead to inconsistency. This book provides a wide snapshot of intelligent technologies for inconsistency resolution. Features and topics include: Knowledge inconsistency resolving; consensus and conflict theories; inconsistency of knowledge – syntactic and semantic; methods based on inconsistency measures for inconsistency processing; knowledge conflict profiles; conflicts of ontologies; practical aspects of applications of proposed methods. This book presents state-of-the-art research, filling a void in the literature within the field and offers researchers and graduates an invaluable source of reference on the topic.

Features
► Currently no other book on Inconsistent Knowledge Management ► Several methods based on Consensus Computing are presented as a tool for reconciling inconsistency of knowledge ► Offers methods for processing inconsistent knowledge on syntactic and semantic levels, as well as for resolving inconsistency of ontologies ► Several applications of proposed methods are given

Fields of interest
Algorithm Analysis and Problem Complexity; Information Storage and Retrieval; Information Systems Applications (incl. Internet)

Target groups
Researchers, graduates, lecturers

Type of publication
Monograph

Due October 2007

2007. Approx. 365 p. (Advanced Information and Knowledge Processing) Hardcover

► * **€ (D) 80,20 | € (A) 82,45 | sFr 123,00**
ISBN 978-1-84628-888-3

A. Perrig, **K. Levitt**, **C. Wang**, **R. Poovendran** (Eds.)

Securing Wireless Sensor Networks

We need to provide secure sensor network protocols of the utmost reliability and resilience to attacks. Security, robustness and accuracy are three systemic parameters that must be achieved. Apart from these, due to the resource-constrained nature of the sensor devices, the solutions to be obtained must also be resource-efficient.
Securing Wireless Sensor Networks is based on the 2006 ARO-NSF-Cylab special workshop on WSN (Wireless Sensor Networks) Security and Privacy. This edited volume presents and discusses fundamental problems and solutions in securing wireless sensor networks.
Designed for industry practitioners and researchers, Securing Wireless Sensor Networks is also suitable for advanced-level students in computer science and electrical engineering.

Features
► Presents latest research on securing wireless sensor networks

From the contents
Preface.- Data Privacy in Ad hoc Networks .- Paris: A Framework for Privacy Augmented Relaying of Information from Sensors.- Sensor Networking, Infrastructure Security, and the Issue of Privacy.- WSN Key Management.- ShortPK: A Short-Term Public Key Scheme for Broadcast Authentication in Sensor Networks.- WSN Broadcast Authentication.- A Canonical Framework for Assignment Processes.- WSN Architecture.- A New Adaptive Self-healing Architecture for Protecting Against and Adapting to Security Attacks in Wireless Sensor Networks.- Emergent Properties in Sensor Networks: A Security Perspective.

Fields of interest
Data Encryption; Data Structures, Cryptology and Information Theory; Computer Communication Networks

Target groups
Professionals

Type of publication
Contributed volume

Due November 2007

2007. Approx. 300 p. (Advances in Information Security, Volume 50) Hardcover

► approx. * **€ (D) 81,59 | € (A) 83,88 | sFr 125,00**
ISBN 978-0-387-71038-9

C. Petrie, **H. Lausen**, **M. Zaremba**, **T. Margaria-Steffen** (Eds.)

Semantic Web Services Challenge

Results from the First Year

Service-Oriented Computing is one of the most promising software engineering trends for future distributed systems. Currently there are many different approaches to semantic web service descriptions and many frameworks built around them. Yet a common understanding, evaluation scheme, and test bed to compare and classify these frameworks in terms of their abilities and shortcomings, is still missing.
Semantic Web Services Challenge is an edited volume that develops this common understanding of the various technologies intended to facilitate the automation of mediation, choreography and discovery for Web Services using semantic annotations.
Semantic Web Services Challenge is designed for a professional audience composed of practitioners and researchers in industry. Professionals can use this book to evaluate SWS technology for their potential practical use. The book is also suitable for advanced-level students in computer science.

Features
► Explores trade-offs among existing approaches ► Reveals strengths and weaknesses of proposed approaches, as well as which aspects of the problem are not yet covered ► Introduces software engineering approach to evaluating semantic web services

Contents
Introduction.- Service-Oriented Computing.- Semantic Web Services.- Semantic Web Challenges.- Programming the Semantic Web.- Index.

Fields of interest
Information Systems Applications (incl.Internet); Information Systems and Communication Service; Database Management

Target groups
Industry practitioners, research scientists

Type of publication
Contributed volume

Due November 2007

2007. Approx. 300 p. (Semantic Web and Beyond, Volume 8) Hardcover

► approx. *** € (D) 81,59 | € (A) 83,88 | sFr 125,00**
ISBN 978-0-387-72495-9

T. Priol, IRISA / INRIA Rennes, France; **M. Vanneschi**, University of Pisa, Italy (Eds.)

Grid and Peer-To-Peer Technologies

Grids are a crucial enabling technology for scientific and industrial development. Peer-to Peer Computing, Grid, storage technologies, emerging web technologies, and other types of networked distributed computing, have provided new paradigms exploiting distributed resources. Grids are revolutionizing computing as profoundly as e-mail. Grid and Peer-To-Peer Technologies is the fourth volume of the CoreGRID series. Organized jointly with the Euro-Par 2007 conference, The CoreGRID Symposium intends to become the premiere European event on Grid Computing. The aim of this symposium is to strengthen and advance scientific and technological excellence in the area of Grid and Peer-to-Peer Computing.
Grid and Peer-To-Peer Technologies is designed for a professional audience composed of researchers and practitioners in industry. This volume is also suitable for advanced-level students in computer science.

Features
► Includes all aspects of Grid Computing including service infrastructure ► Brings together distinguished leaders in research and industry within Grid Computing from the global community

Contents
Preface.- Introduction.- Grid Computing.- Peer to Peer Computing.- Web Technologies.- Network Computing.- Storage Technologies.- Index.

Fields of interest
Computer Communication Networks; Database Management; Computer Systems Organization and Communication Networks

Target groups
Professional audience

Type of publication
Proceedings

Due October 2007

2007. Approx. 350 p. Hardcover

► approx. *** € (D) 111,23 | € (A) 114,35 | sFr 170,50**
ISBN 978-0-387-72497-3

A. Rettberg, **M. Zanella**, **R. Domer**, **A. Gerstlauer**, **F. Rammig** (Eds.)

Embedded System Design

Topics, Techniques and Trends

Over recent years, embedded systems have gained an enormous amount of processing power and functionality. Many of the formerly external components can now be integrated into a single System-on-Chip. This tendency has resulted in a dramatic reduction in the size and cost of embedded systems. As a unique technology, the design of embedded systems is an essential element of many innovations.
Embedded System Design: Topics, Techniques and Trends presents the technical program of the International Embedded Systems Symposium (IESS) 2007 held in Irvine, California. IESS is a unique forum to present novel ideas, exchange timely research results, and discuss the state of the art and future trends in the field of embedded systems. Contributors and participants from both industry and academia take active part in this symposium. The IESS conference is organized by the Computer Systems Technology committee (TC10) of the International Federation for Information Processing (IFIP).

Features
► Most up-to-date research on embedded systems

Field of interest
Computer Science, general

Target groups
Researchers and practitioners in embedded system design

Type of publication
Proceedings

Due June 2007

2007. Approx. 460 p. (IFIP International Federation for Information Processing, Volume 231) Hardcover

► * **€ (D) 155,10 | € (A) 159,45 | sFr 237,50**
ISBN 978-0-387-72257-3

D. Salomon, California State University, Northridge, CA, USA

Variable-length Codes for Data Compression

Most data compression methods that are based on variable-length codes employ the Huffman or Golomb codes. However, there are a large number of less-known codes that have useful properties - such as those containing certain bit patterns, or which are robust - and these can be useful. This book brings this large set of codes to the attention of workers in the field and of students of computer science.
David Salomon's crystal clear style of writing and presentation, which has been familiar to readers for many years now allows easy access to the topic. Readers are only required to have a general familiarity with computer methods and essentially an understanding of the representation of data in bits and files.
Computer scientists, electrical engineers and students majoring in computer science or electrical engineering will find this volume an invaluable resource, as will those readers in various physical sciences and mathematics.

Features
► Comprehensively discusses the codes, not the compression algorithms (the latter are available in many books, but the codes themselves are normally mentioned in the literature just in passing) ► Requires a minimum of mathematics, this book is geared toward the general educated reader, not toward specialists ► Readers can find errata and auxiliary material on the author's website regularly maintained and updated

Fields of interest
Coding and Information Theory; Data Storage Representation; Data Encryption

Target groups
Researchers, advanced undergraduates, graduates

Type of publication
Monograph

Due October 2007

2007. Approx. 200 p. 47 illus. Softcover

► *** € (D) 48,10 | € (A) 49,45 | sFr 74,00**
ISBN 978-1-84628-958-3

D. Sauveron, **K. Markantonakis**, **A. Bilas**, **J. Quisquater** (Eds.)

Information Security Theory and Practices. Smart Cards, Mobile and Ubiquitous Computing Systems

First IFIP TC6 / WG 8.8 / WG 11.2 International Workshop, WISTP 2007, Heraklion, Crete, Greece, May 9-11, 2007

This volume constitutes the refereed proceedings of the First IFIP TC6 / WG 8.8 / WG 11.2 International Workshop on Information Security Theory and Practices: Smart Cards, Mobile and Ubiquitous Computing Systems, WISTP 2007, held in Heraklion, Crete, Greece in May 2007.
The 20 revised full papers presented were carefully reviewed and selected from 68 submissions. The papers are organized in topical sections on mobility, hardware and cryptography, privacy, cryptography schemes, smart cards, and small devices.

Fields of interest
Data Encryption; Computer Communication Networks

Target groups
Researchers and professionals

Type of publication
Proceedings

Available

2007. XII, 255 p. Also available online. (Lecture Notes in Computer Science, Volume 4462) Softcover

► *** € (D) 67,41 | € (A) 69,30 | sFr 103,50**
ISBN 978-3-540-72353-0

A. Schuster, University of Ulster at Jordanstown, Belfast, UK (Ed.)

Intelligent Computing Everywhere

ntelligent Computing Everywhere reflects the current perception in various fields that modern computing applications are becoming increasingly challenged in terms of complexity and intelligence. It investigates the relevance and relationship artificial intelligence maintains with „modern strands of computing" i.e. pervasive computing and ambient intelligence, bioinformatics, neuroinformatics, computing and the mind, non-classical computing and novel computing models, as well as DNA computing and quantum computing.
Each subject is examined from two main viewpoints, the first provides a state of the art introduction to a field such as DNA computing and the second investigates the subject from an artificial intelligence perspective.

Features
► Explores some of the most exciting fields in computing today including artificial intelligence, pervasive computing, autonomic computing, bioinformatics, artificial life and artificial synthetic life, DNA Computing and Quantum Computing

From the contents
Part I: Introduction, Philosophical Issues, and Novel Computing Models.- Intelligent Computing Everywhere.- Infinitely Complex Machines.- The Non-Classical Mind: Cognitive Science and Non-Classical Computing.- A Computing Model Combining Artificial Neural Networks and Petri Nets.- Part II: Artificial Intelligence, Quantum Mechanics, and the Mind.- Quantum Mechanics and Artificial Intelligence.- Quantum Mechanics, Computers and the Mind.- Part III: Brain-Computer Interfaces and Computational Neuroscience.- Restoration of Movement and Thought from Neuroelectric and Metabolic Brain Activity: Brain-Computer-Interfaces.

Field of interest
Artificial Intelligence (incl. Robotics)

Target groups
Researchers

Type of publication
Monograph

Due October 2007

2007. Approx. 264 p. Hardcover

► *** € (D) 80,20 | € (A) 82,45 | sFr 123,00**
ISBN 978-1-84628-942-2

Y. Shi, G. D. Albada, J. Dongarra, P. M. Sloot (Eds.)

Computational Science - ICCS 2007

7th International Conference, Beijing China, May 27-30, 2007, Proceedings, Part I

The four-volume set LNCS 4487-4490 constitutes the refereed proceedings of the 7th International Conference on Computational Science, ICCS 2007, held in Beijing, China in May 2007.
More than 2400 submissions were made to the main conference and its 35 topical workshops. The 80 revised full papers and 11 revised short papers of the main track were carefully reviewed and selected from 360 submissions and are presented together with 624 accepted workshop papers in four volumes.
According to the ICCS 2007 theme „Advancing Science and Society through Computation" the papers cover a large volume of topics in computational science and related areas, from multiscale physics, to wireless networks, and from graph theory to tools for program development.

Fields of interest
Theory of Computation; Software Engineering/ Programming and Operating Systems; Numeric Computing

Target groups
Researchers and professionals

Type of publication
Proceedings

Due June 2007

2007. LXXXI, 1275 p. Also available online. (Lecture Notes in Computer Science, Volume 4487) Softcover

► * **€ (D) 126,26 | € (A) 129,80 | sFr 193,50**
ISBN 978-3-540-72583-1

Y. Shi, G. D. Albada, J. Dongarra, P. M. Sloot (Eds.)

Computational Science - ICCS 2007

7th International Conference, Beijing China, May 27-30, 2007, Proceedings, Part II

The papers are arranged in topical sections on efficient data management, parallel monte carlo algorithms, simulation of multiphysics multiscale systems, dynamic data driven application systems, computer graphics and geometric modeling, computer algebra systems, computational chemistry, computational approaches and techniques in bioinformatics, computational finance and business intelligence, geocomputation, high-level parallel programming, networks theory and applications, collective intelligence for semantic and knowledge grid, collaborative and cooperative environments, tools for program development and analysis in CS, intelligent agents in computing systems, CS in software engineering, computational linguistics in HCI, internet computing in science and engineering, workflow systems in e-science, graph theoretic algorithms and applications in cs, teaching CS, high performance data mining, mining text, semi-structured, Web, or multimedia data, computational methods in energy economics, risk analysis, advances in computational geomechanics and geophysics, meta-synthesis and complex systems, scientific computing in electronics engineering, wireless and mobile systems, high performance networked media and services, evolution toward next generation internet, real time systems and adaptive applications, evolutionary algorithms and evolvable systems.

Fields of interest
Theory of Computation; Software Engineering/ Programming and Operating Systems; Numeric Computing

Target groups
Researchers and professionals

Type of publication
Proceedings

Due June 2007

2007. XXXV, 1251 p. Also available online. (Lecture Notes in Computer Science, Volume 4488) Softcover

► * **€ (D) 121,98 | € (A) 125,40 | sFr 187,00**
ISBN 978-3-540-72585-5

Y. Shi, G. D. Albada, J. Dongarra, P. M. Sloot (Eds.)

Computational Science - ICCS 2007

7th International Conference, Beijing China, May 27-30, 2007, Proceedings, Part III

The four-volume set LNCS 4487-4490 constitutes the refereed proceedings of the 7th International Conference on Computational Science, ICCS 2007, held in Beijing, China in May 2007.
More than 2400 submissions were made to the main conference and its 35 topical workshops. The 80 revised full papers and 11 revised short papers of the main track were carefully reviewed and selected from 360 submissions and are presented together with 624 accepted workshop papers in four volumes.
According to the ICCS 2007 theme „Advancing Science and Society through Computation" the papers cover a large volume of topics in computational science and related areas, from multiscale physics, to wireless networks, and from graph theory to tools for program development.

Fields of interest
Theory of Computation; Software Engineering/ Programming and Operating Systems; Numeric Computing

Target groups
Researchers and professionals

Type of publication
Proceedings

Due June 2007

2007. XXXVII, 1257 p. Also available online. (Lecture Notes in Computer Science, Volume 4489) Softcover

► * **€ (D) 121,98 | € (A) 125,40 | sFr 187,00**
ISBN 978-3-540-72587-9

Y. Shi, G. D. Albada, J. Dongarra, P. M. Sloot (Eds.)

Computational Science - ICCS 2007

7th International Conference, Beijing China, May 27-30, 2007, Proceedings, Part IV

The papers are arranged in topical sections on efficient data management, parallel monte carlo algorithms, simulation of multiphysics multiscale systems, dynamic data driven application systems, computer graphics and geometric modeling, computer algebra systems, computational chemistry, computational approaches and techniques in bioinformatics, computational finance and business intelligence, geocomputation, high-level parallel programming, networks theory and applications, collective intelligence for semantic and knowledge grid, collaborative and cooperative environments, tools for program development and analysis in CS, intelligent agents in computing systems, CS in software engineering, computational linguistics in HCI, internet computing in science and engineering, workflow systems in e-science, graph theoretic algorithms and applications in cs, teaching CS, high performance data mining, mining text, semi-structured, Web, or multimedia data, computational methods in energy economics, risk analysis, advances in computational geomechanics and geophysics, meta-synthesis and complex systems, scientific computing in electronics engineering, wireless and mobile systems, high performance networked media and services, evolution toward next generation internet, real time systems and adaptive applications, evolutionary algorithms and evolvable systems.

Fields of interest
Theory of Computation; Software Engineering/ Programming and Operating Systems; Numeric Computing

Target groups
Researchers and professionals

Type of publication
Proceedings

Due June 2007

2007. XXXVII, 1211 p. Also available online. (Lecture Notes in Computer Science, Volume 4490) Softcover

► * **€ (D) 117,70 | € (A) 121,00 | sFr 180,50**
ISBN 978-3-540-72589-3

T. Terano, H. Kita, H. Deguchi, K. Kijima (Eds.)

Agent-Based Approaches in Economic and Social Complex Systems

Post Proceedings of The AESCS International Workshop 2005

Agent-Based Modeling/Simulation (ABM/ABS) is an emerging field that enables bottom-up and experimental analysis in social sciences such as economics, management, sociology and politics. The chapters of this book are the selected papers from those presented the Third International Workshop on Agent-Based Approaches in Economic and Social Complex Systems held in Tokyo, Japan in 2005. Articles in this book covers methodological issues, computational model/software, combination with gaming simulation, and real-world applications to economic, management/ organizational and social issues.

Features
► Offers topics related to Agent-Based Approaches in Economic and Social Complex Systems to promote worldwide activities of the multi-disciplinary community on multiagent, computational economics, organizational science, social dynamics, and complex systems

Contents
Gaming and Education.- Market and policy.- City and local community.- Network.- Learning Agents.- Methodology and tools.

Fields of interest
Simulation and Modeling; Organization/Planning; Operations Research/Decision Theory

Target groups
Researchers, scientists

Type of publication
Proceedings

Available

2007. 200 p. (Springer Series on Agent Based Social Systems, Volume 3) Hardcover

► * **€ (D) 85,55 | € (A) 87,95 | sFr 131,00**
ISBN 978-4-431-71306-7

P. Van Hentenryck, Brown University, Providence, RI, USA; **L. Wolsey**, Université Catholique de Louvain, Belgium (Eds.)

Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems

4th International Conference, CPAIOR 2007, Brussels, Belgium, May 23-26, 2007, Proceedings

This book constitutes the refereed proceedings of the 4th International Conference on Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, CPAIOR 2007, held in Brussels, Belgium in May 2007.
The 27 revised full papers presented were carefully reviewed and selected from 80 submissions. Methodological and foundational issues from AI, OR, and algorithmics are presented as well as applications to the solution of combinatorial optimization problems in various fields via constraint programming.

Fields of interest
Numeric Computing; Discrete Mathematics in Computer Science; Algorithm Analysis and Problem Complexity

Target groups
Researchers and professionals

Type of publication
Proceedings

Due June 2007

2007. X, 391 p. Also available online. (Lecture Notes in Computer Science, Volume 4510) Softcover

► * **€ (D) 59,92 | € (A) 61,60 | sFr 92,00**
ISBN 978-3-540-72396-7

H. Venter, **M. Eloff**, **L. Labuschagne**, **J. Eloff**, **R. von Solms** (Eds.)

New Approaches for Security, Privacy and Trust in Complex Environments

Proceedings of the IFIP TC 11 22nd International Information Security Conference (SEC 2007), 14-16 May 2007, Sandton, South Africa

The current IT environment deals with novel, complex approaches such as information privacy, trust, digital forensics, management, and human aspects. This modern environment challenges the whole information security research community to focus on interdisciplinary and holistic approaches, while retaining the benefit of previous research efforts. This volume includes papers offering research contributions that focus both on access control in complex environments as well as other aspecs of computer security and privacy.

Features
► Most up-to-date research on computer security and privacy ► Covers a range of topics including digital forensics, access control, and human computer interaction

From the contents
Digital Forensic Readiness as a Component of Information Security Best Practice.- Usability and Security of Personal Firewalls.- Trusted Ticket Systems and Applications.- Improving the Information Security Model by using TFI.- Management of Exceptions on Access Control Policies.- Employees' Adherence to Information Security Policies: An Empirical Study.- Secure Pth-Key Revocation for Symmetric Key Pre-distribution Schemes in Sensor Networks.- A Practical Usability Evaluation of Security Features in End-User Applications.- A Survey of Bots Used for Distributed Denial of Service Attacks.- A Hybrid PKI-IBC Based Ephemerizer System.-Non-Repudiation in Internet Telephony.-Building a Distributed Semantic-aware Security Architecture.

Target groups
Researchers and practitioners in various aspects of information security

Type of publication
Proceedings

Due June 2007

2007. XVI, 498 p. 100 illus. (IFIP International Federation for Information Processing, Volume 232) Hardcover

► * **€ (D) 155,10 | € (A) 159,45 | sFr 237,50**
ISBN 978-0-387-72366-2

Q. Wang, Chinese Academy of Sciences, Beijing, China; **D. Pfahl**, University of Calgary, Canada; **D. M. Raffo**, Portland State University, OR, USA (Eds.)

Software Process Dynamics and Agility

International Conference on Software Process, ICSP 2007, Minneapolis, MN, USA, May 19-20, 2007, Proceedings

This book constitutes the refereed proceedings of the First International Conference on Software Process, held in Minneapolis, MN, USA, in May 2007. The event emanated from the joint International Software Process Workshop and the International Workshop on Software Process Simulation and Modeling and was colocated with 29th International Conference on Software Engineering, ICSE 2007.
The 28 revised full papers presented together with the abstracts of 2 keynote addresses were carefully reviewed and selected from 98 initial submissions. The papers are organized in topical sections on process content, process tools and metrics, process management, process representation, analysis and modeling, experience report, and simulation modeling.

Fields of interest
Software Engineering; Management of Computing and Information Systems; Computer Appl. in Administrative Data Processing

Target groups
Researchers and professionals

Type of publication
Proceedings

Due June 2007

2007. XI, 346 p. Also available online. (Lecture Notes in Computer Science, Volume 4470) Softcover

► * **€ (D) 55,64 | € (A) 57,20 | sFr 85,50**
ISBN 978-3-540-72425-4

J. Yao, **P. Lingras**, **W. Wu**, **M. Szczuka**, **N. Cercone**, **D. Slezak** (Eds.)

Rough Sets and Knowledge Technology

Second International Conference, RSKT 2007, Toronto, Canada, May 14-16, 2007, Proceedings

This book constitutes the refereed proceedings of the Second International Conference on Rough Sets and Knowledge Technology, RSKT 2007, held in Toronto, Canada in May 2007 in conjunction with the 11th International Conference on Rough Sets, Fuzzy Sets, Data Mining, and Granular Computing, RSFDGrC 2007, both as part of the Joint Rough Set Symposium, JRS 2007.
The 67 revised full papers papers presented together with 3 invited papers were carefully reviewed and selected from a total of 319 general submissions to the JRS 2007 symposium. The papers are organized in topical sections on rough set foundations, multiple criteria decision analysis, biometrics, kansei engineering, autonomy-oriented computing, soft computing in bioinformatics, ubiquitous computing and networking, rough set algorithms, knowledge representation and reasoning, genetic algorithms, and rough set applications.

Fields of interest
Artificial Intelligence (incl. Robotics); Database Management

Target groups
Researchers and professionals

Type of publication
Proceedings

Due June 2007

2007. XIV, 576 p. Also available online. (Lecture Notes in Computer Science, Volume 4481) Softcover

► * **€ (D) 72,76 | € (A) 74,80 | sFr 111,50**
ISBN 978-3-540-72457-5

D. Zeng, **I. Gotham**, **K. Komatsu**, **C. Lynch**, **M. Thurmond**, **D. Madigan**, **B. Lober**, **J. Kvach**, **H. Chen** (Eds.)

Intelligence and Security Informatics: Biosurveillance

Second NSF Workshop, BioSurveillance 2007, New Brunswick, NJ, USA, May 22, 2007, Proceedings

This book constitutes the refereed proceedings of the Second NSF Workshop on Biosurveillance Systems and Case Studies, BioSurveillance 2007, held in New Brunswick, NJ, USA in May 2007, co-located with the 2007 IEEE International Conference on Intelligence and Security Informatics (ISI 2007).
The 17 revised full papers, 6 revised short papers presented together with 1 invited talk and 2 poster papers were carefully reviewed and selected for inclusion in the book. Bringing together infectious disease informatics (IDI) researchers and practitioners to discuss selected topics directly relevant to data sharing and analysis for real-time animal and public health surveillance, the workshop covers a wide range of backgrounds such as epidemiology, statistics, applied mathematics, information systems, computer science and machine learning/ data mining.

Fields of interest
Information Systems Applications (incl. Internet); Computer Communication Networks

Target groups
Researchers and professionals

Type of publication
Proceedings

Due June 2007

2007. XI, 234 p. Also available online. (Lecture Notes in Computer Science, Volume 4506) Softcover

► * **€ (D) 44,94 | € (A) 46,20 | sFr 69,00**
ISBN 978-3-540-72607-4

D. Astruc, University of Bordeaux, France

Organometallic Chemistry and Catalysis

This tutorial volume covers the basic and advanced aspects of organometallic chemistry of all metals and related catalysis topics. It treats historical background, concepts (including structures of mono- and polymetallic complexes), molecular orbitals, reactivity, implications in biology and applications to organic synthesis and catalysis. The catalysis section includes the challenging activation and functionalization of the main classes of hydrocarbons and the industrially crucial heterogeneous catalysis. Chapter-end summaries and exercises support self- and group study, with solutions included at the end of the book. 500 selected references complement the text for further reading. Chapter-length treatment of green chemistry, plus many recent international research results, round out this highly accessible textbook. Organometallic Chemistry and Catalysis can profitably be read by beginners such as undergraduate and graduate students, as well as engineers, researchers and molecular scientists.

Features
► First book for students ► Includes exercises and summaries after each chapter ► Organometallic chemistry is covered in the broadest possible way

Fields of interest
Organometallic Chemistry ; Inorganic Chemistry; Catalysis

Target groups
Beginners in inorganic, organic and organometallic chemistry, as well as advanced scholars and chemists from academia and industry

Type of publication
Graduate/Advanced undergraduate textbook

Due June 2007

Original French edition published by EDP Sciences, 2000

2007. Approx. 560 p. Hardcover

► * **€ (D) 74,85 | € (A) 76,95 | sFr 115,00**
ISBN 978-3-540-46128-9

German Federal Office for Consumer Protection and Food Safety (BVL), Berlin, Germany (Ed.)

Reports on Food Safety 2005

Food Monitoring

Editorial coordination: P. Brandt

Food monitoring is a tool to recognize and avoid potential risks to consumers. While the states enforce food law primarily through suspicion and risk-based investigations, food monitoring is a system of repeated representative measurements and evaluations of undesirable substances and contaminants in foods. The food monitoring programme is a joint investigative programme by the German Federal Government and the federal states which is complementary to official food control as carried out by the states. This report provides the results of the analysis in 2005 of more than 5000 samples of 50 foods or food groups of domestic and foreign origin.

Features
► Official Publication of the German Federal Office for Consumer Protection and Food Safety (BVL) ► Also available in german language as well as further BVL reports

Contents
Summary.- Objectives and organisation.- The 2005 monitoring plan.- Number of samples and origin.- Findings of market basket monitoring.- Results of monitoring projects.- Survey of foods examined under food monitoring schemes to date.- Glossary.- Addresses of the ministries responsible for food monitoring activities, Federal Government office in charge.- List of the state (Länder) laboratories responsible for food monitoring.

Fields of interest
Food Science; Analytical Chemistry; Biotechnology

Target groups
Food and feed industry, federal offices, journalists

Type of publication
Yearbook

BIRKHÄUSER

Due June 2007

2007. Approx. 60 p. Softcover

► * **€ (D) 26,75 | € (A) 27,50 | sFr 42,00**
ISBN 978-3-7643-8407-4

Bundesamt für Verbraucherschutz und Lebensmittel-sicherheit (BVL), Berlin (Hrsg)

Berichte zur Lebensmittelsicherheit 2005

Bundesweiter Überwachungsplan; Nationale Berichterstattung an die EU; Bericht über Rückstände von Pflanzenschutzmitteln in Lebensmitteln

Schriftleitung: P. Brandt

Bericht über Rückstände von Pflanzenschutzmitteln in Lebensmitteln: Diese können ein gesundheitliches Risiko für den Verbraucher darstellen. Die Einhaltung gesetzlich festgelegter Höchstgehalte wird daher von der amtlichen Lebensmittelüberwachung überprüft. 2. Nationale Berichterstattung an die EU: Dieser Teil umfasst die Berichte über die Kontrolle von Lebensmitteln auf Sudanrot, Nitrat, Ochratoxin A, Fusarientoxine, von Lebensmitteln aus Drittländern auf Aflatoxine sowie die Kontrollergebnisse gemäß der Bestrahlungsverordnung. 3. Bundesweiter Überwachungsplan (BÜp): Die AVV-Rahmenüberwachung regelt die Zusammenarbeit der Behörden der Länder untereinander und mit dem Bund und soll zu einem einheitlichen Vollzug der lebensmittelrechtlichen und weinrechtlichen Vorschriften in der Überwachung beitragen. Je 1000 Einwohner und Jahr müssen Produkt-Proben genommen werden. Ein Teil dieser Probenzahl (0,15 bis 0,45 Proben je 1000 Einwohner und Jahr) wird bundesweit einheitlich im Rahmen des BÜp untersucht.

Pluspunkte
► Offizielle Veröffentlichung des deutschen Bundesamtes für Verbraucherschutz und Lebensmittelsicherheit BVL ► Weitere Berichte zur Lebensmittelsicherheit aus dem BVL: Lebensmittelmonitoring; Bericht zur Futtermittelüberwachung; Nationaler Rückstandskontrollplan für Lebensmittel tierischen Ursprungs; Bericht zum Schnellwarnsystem; Inspektionsbericht des Lebensmittel- und Veterinäramtes (FVO)

Fachgebiete
Lebensmittelwissenschaften; Gesundheitswesen; Analytische Chemie

Zielgruppen
Verbände und Wirtschaftsunternehmen der Lebens- und Futtermittelindustrie, Biotechnologie und Landwirtschaft; Ministerien und Behörden im deutschsprachigen Raum; Journalisten

Kategorie
Beitragswerk

BIRKHÄUSER

Erscheint Juni 2007

2007. Etwa 60 S. (BVL-Reporte) Brosch.

► **€ (D) 25,00 | € (A) 25,70 | sFr 40,00**
ISBN 978-3-7643-8404-3

K. Dill, **R. Liu**, CombiMatrix Corp, Mukilteo, WA, USA; **P. Grodzinsky**, National Cancer Institute, Bethesda, MD, USA (Eds.)

Microarrays

Preparation, Microfluidics, Detection, Methods, and Biological Applications

Combinatorial chemistry is used to find materials that form sensor micoarrays. This book discusses the fundamentals, and then proceeds to the many applications of microarrays, from measuring gene expression (DNA microarrays) to protein-protein interactions, peptide chemistry, carbodhydrate chemistry, electrochemical detection, and microfluidics.

Features
► Application of combinatorial chemistry to sensor materials ► No competition whatsoever ► One of the first books in the series Integrated Microanalytical Systems

Contents
Types of arrays currently available.- Optical methods of detection of events on the chip surface.- Electrochemical Detection.- Integrated Microfluidic Devices for Automating DNA Microarray Process.- Self-contained, Fully Integrated Biochip for Sample Preparation, PCR Amplification, and DNA Microarray Detection.- Spot identification and data evaluation.- Statistical data analysis.- Electrochemical output and data analysis.- Uses of DNA Microarrays.- Peptide Arrays: towards Routine Implementation.- Antibody Microarrays for the Detection of Toxins.- Autoantibody Profiling Using Synovial Proteome Microarrays.- Carbohydrate microarrays for the Recognition of Microbes and Host Cells.- Development of the Living Cell Array.- Assembly of Multicellular Cell Microarrays Using Magnetic Nanowires.- Combinatorial Organic Chemistry for Future Drug Development and Screening.

Fields of interest
Analytical Chemistry; Biotechnology; Biochemical Engineering

Target groups
Chemists and engineers in industry and academia, graduate students

Type of publication
Monograph

Due October 2007

2007. Approx. 400 p. (Integrated Microanalytical Systems) Hardcover

► approx. *** € (D) 82,34 | € (A) 84,65 | sFr 126,50**
ISBN 978-0-387-72716-5

Topics in Heterocyclic Chemistry

Editorial board: D. Enders, S. Ley, G. Mehta, A. Meyers, K. Nicolaou, R. Noyori, L. Overman, A. Padwa
Series editor: R. Gupta

Volume 8

S. Eguchi, University of Nagoya, Japan (Ed.)

Bioactive Heterocycles II

Features
► Heterocyclic chemistry is the biggest branch of chemistry covering two-third of the chemical literature ► Covers hot topics of frontier research summarized by reputed scientists in the field ► Our review series is topic related ► Online version available on SpringerLink.com

Contents
K. Matsumoto: High Pressure Synthesis of Heterocycles Related to Bioactive Molecules.- N. Nishiwaki, M. Ariga: Ring Transformation of Nitropyrimidinone Leading to Versatile Azaheterocyclic Compounds.- N. Shibata, T. Yamamoto, T. Toru: Synthesis of Thalidomide.- H. Nagase, H. Fujii: Rational Drug Design of d Opioid Receptor Agonist TAN-67 from d Opioid Receptor Antagonist NTI.- S. Murata, H. Ichinose, F. Urano: Tetrahydrobiopterin and Related Biologically Important Pterins.- M. Yamashita: Preparation, Structure and Biological Property of Phosphorus Heterocycles with a C-P Ring System.- K. Michalak, O. Wesolowska, N. Motohashi, A.B. Hendrich: The Role of the Membrane Actions of Phenothiazines and Flavonoids as Functional Modulators.

Fields of interest
Organic Chemistry; Biochemistry, general; Medicinal Chemistry

Target groups
Scientists and practitioners in the mentioned fields and in industry

Type of publication
Reviews

Due July 2007

2007. X, 300 p. Also available online. Hardcover

► *** € (D) 245,03 | € (A) 251,90 | sFr 375,50**
ISBN 978-3-540-72591-6

L. O. Figura, University of Applied Sciences Bremerhaven, Germany; **A. A. Teixeira**, University of Florida, Gainesville, FL, USA

Food Physics

Physical Properties of Food - Measurement and Applications

Food Physics deals with the physical properties of food, food ingredients and their measurement. Physical properties of food play a key role in all fields where modern technological processes are applied for the generation of food raw materials and the production of food. The determination of physical properties of food and related products are a pre-requisite for planning, production engineering and automation processes in today's food, pharmaceutical and cosmetics industries as well as in all related quality control activities.

This book describes the principles of food physics starting with the very basics and focuses on the needs of practitioners without omitting important basic principles. It will be indispensable for future students of food technology and food chemistry as well as for engineers, technologists and technicians in the food industries.

Features
► First textbook in this field of increasing importance for the food and cosmetics industries ► Indispensable for future students of food technology and food chemistry as well as for engineers, technologists and technicians in the food industries

Fields of interest
Food Science; Physical Chemistry; Mechanics, Fluids, Thermodynamics

Target groups
Students in food technology or agricultural sciences; engineers, physicists, chemists, biologists, technologists and technicians in food and cosmetics industries and related branches; practitioners in the quality control in food, pharma and cosmetics industry; engineers and technicians in mechanical engineering und process technology

Type of publication
Graduate/Advanced undergraduate textbook

Due July 2007

2007. Approx. 450 p. Hardcover

► *** € (D) 96,25 | € (A) 98,95 | sFr 147,50**
ISBN 978-3-540-34191-8

Y. Fukuda, Ochanomizu University, Tokyo, Japan (Ed.)

Inorganic Chromotropism

Basic Concepts and Applications of Colored Materials

This volume presents various kinds of reversible color changes of inorganic coordination compounds due to changes in the chemical and physical surrounding conditions.
By approaching the subject of chromotropism from the standpoint of inorganic and coordination chemistry to appeal to a wide readership, complete explanations are given, including the fundamental concepts of colors (basic inorganic spectroscopy), structure and other physicochemical properties (magnetism, redox reaction, kinetic and thermodynamic) of the complexes to the application of these interesting colored materials. Graduate students and young chemists starting to investigate basic scientific researches and/or to synthesize and characterize new colored coordinate materials will find this to be a good reference volume.

Features
► Up-to-date comprehensive treatment of the topic ► No competition

Contents
General Introduction.- Origin of Color of Inorganic Materials (coordination compounds).- What is Chromotropism?- Thermochromism.- Solvatochromism.- Piezochromism.- Photochromism.- Electrochromism.- Application to Inorganic Materials.- Conclusion.

Fields of interest
Inorganic Chemistry; Analytical Chemistry; Physical Chemistry

Target groups
Academic and industrial researchers and engineers in the field of organic chemistry, physical and analytical chemistry, materials science, solid state physics as well as graduate and senior undergraduate students of pure and applied chemistry and physics

Type of publication
Monograph

Due July 2007

Only available in print

Distribution rights for Japan: Kodansha Scientific Ltd.

Jointly published with Kodansha Scientific Ltd.

2007. XV, 378 p. Hardcover

► * € (D) 192,55 | € (A) 197,95 | sFr 295,00
ISBN 978-3-540-72311-0

E. Pisani, **M. Lebiez** (Eds.)

Une politique mondiale pour nourrir le monde

La faim n'a pas disparu, et surtout elle pourrait s'étendre si l'humanité va bien vers les neuf milliards d'individus au milieu du siècle. Il n'est pas certain que le monde puisse nourrir le monde. Les experts internationaux qui négocient dans le cadre de l'OMC sont convaincus que la persistance de soutiens publics à l'agriculture dans certains pays est le principal obstacle actuel au développement des plus pauvres. L'idée paraît évidente, ce n'est pas pour autant qu'elle serait vraie. Pour qu'elle le soit, il faudrait que les denrées agricoles puissent être produites et échangées dans des conditions semblables à celles que l'on observe pour les marchandises industrielles. Cela est plus que douteux. À supposer, en second lieu, que les marchés agricoles puissent être entièrement soumis au mécanisme du libre-échange mondial, celui-ci aurait pour effet (attendu et même espéré) de ruiner les producteurs les moins rentables au profit des plus rentables.

Contents
Comment s'est fait ce livre.- Parabole.- Analyses et propositions.- La situation alimentaire de quelques pays en développementl.- La „crise agricole" et les organisations internationales.- Agriculture, fournisseurs, filières.- Quelques données.- L'expérience d'un agriculteur.- L'état des agricultures et les négociations internationales.- À quelles conditions l'agriculture peut-elle répondre aux divers besoins du monde?- Conclusions.- Synthèse.- Partir des besoins.

Fields of interest
Nutrition; Environnement, généralités;

Target groups
Conseillers ministériels, hauts fonctionnaires nationaux, journalistes économiques et politiques

Type of publication
Monographie

A paraître juin 2007

2007. Env. 150 p. Broché

► * € (D) 25,36 | € (A) 26,07 | sFr 39,00
ISBN 978-2-287-71810-6

K. Priebe, Bremerhaven

Parasiten des Fischfilets

Erscheinungsbild, Biologie, Lebensmittelsicherheit

In der Lebensmittelhygiene spielte bisher die Einschätzung krankhafter Veränderungen in der Körpermuskulatur von Fischen im Vergleich zum mikrobiellen Verderb und der Kontamination mit pathogenen Erregern und Um-weltchemikalien eine relativ untergeordnete Rolle. In diesem Buch werden die Fischarten der Welt aufgelistet, deren Körpermuskulatur pathologisch verändert sein kann. Ganz überwiegend sind dafür Parasiten die Ursache. Eine Reihe dieser Parasiten können beim Menschen nach dem Verzehr zu Erkrankungen führen. Die Lebensmit-telunternehmer und die Mitarbeiter der Kontroll- und Hygienebehörden müssen das Erscheinungsbild im Filet kennen, um es von ähnlichen Abweichungen differenzialdiagnostisch unterscheiden zu können. Nach den hierbei relevanten Fragen des Lebensmittelrechts, der Verkehrsauffassung, der Anatomie und Physiologie und der all-gemeinen Pathologie der Fischmuskulatur widmet sich das Buch schwerpunktmäßig den Ursachen der Muskel-veränderungen.

Pluspunkte
► Zusammenfassende und umfangreich illustrierte Darstellung durch Parasiten bedingter pathologischer Veränderungen der Muskulatur von Fischen ► Unverzichtbares Handbuch zur Beurteilung von Fischrohware für alle Verarbeiter, Importeure und Kontrollbehörden und zur Einrichtung von Kontrollmassnahmen gemäß dem HACCP-Konzept

Fachgebiete
Lebensmittelwissenschaften; Ernährung; Mikrobiologie

Zielgruppen
Lebensmitteltierärzte, Lebensmittelchemiker und Fischereibiologen in den Untersuchungs- und Überwachungslaboratorien, Veterinärmediziner, Lebensmitteltechnologen, Produktions- und Kontrollleiter in der Lebensmittelindustrie, Fachleute in Fischerei und Aquakultur, wissenschaftliche Mitarbeiter in Behörden und Forschungseinrichtungen, Hygienefachleute, Mikrobiologen, Studenten der Lebensmittelchemie

Kategorie
Monographie

Erscheint September 2007

2007. Etwa 350 S. 229 Abb., 125 in Farbe. Geb.

► € (D) 149,95 | € (A) 154,15 | sFr 230,00
ISBN 978-3-540-72229-8

M. A. Rao, Cornell University, Geneva, NY, USA

Rheology of Fluid and Semisolid Foods: Principles and Applications

The second edition of Rheology of Fluid and Semisolid Foods: Principles and Applications, examines the concepts needed to characterize rheological behavior of fluid and semisolid foods and to use various ingredients to develop desirable flow properties in fluid foods and structure in gelled systems. It covers important application of rheology to sensory assessment and swallowing, and handling and processing foods. All the chapters have been updated to help readers better understand the importance rheological properties play in food science and utilize these properties to characterize food.

Features
► Explores how to characterize fluid and semisolid foods and to use various ingredients to develop desirable flow properties in fluid foods and structure in gelled systems ► Introduces the basics of food rheology and its applications in food processing

Contents
Preface to the Second Edition.- Preface to the First Edition.- Introduction: Food Rheology and Structure.- Flow and Functional Models for Rheological Properties of Fluid Foods.- Measurement of Flow and Viscoelastic Properties.- Rheology of Food Gum and Starch Dispersions.- Rheological Behavior of Processed Fluid and Semisolid Foods.- Rheological Behavior of Food Gels.- Role of Rheological Behavior in Sensory Assessment of Foods and Swallowing.- Application of Rheology to Fluid Food Handling and Processing.- Appendix A: Nomenclature.- Subject Index.

Field of interest
Food Science

Target groups
Academias industries

Type of publication
Monograph

Due July 2007

2nd ed. 2007. Approx. 450 p. 196 illus. (Food Engineering Series) Hardcover

► * **€ (D) 106,95 | € (A) 109,95 | sFr 164,00**
ISBN 978-0-387-70929-1

Structure and Bonding

Editorial board: P. Day, X. Duan, T. Meyer, G. Parkin, J. Sauvage, H. Roesky
Series editor: D. Mingos

Volume 125

T. M. Klapötke, University of Munich, Germany (Ed.)

High Energy Density Materials

Features
► Presents critical reviews of the present position and future trends in modern chemical research concerned with chemical structure and bonding ► Short and concise reports, each written by the world's renowned experts ► Still valid and useful after 5 or 10 years ► More information as well as the electronic version of the whole content available at: springerlink.com

Contents
A.J. Bellamy: FOX-7 (1,1-Diamino-2,2-dinitroethene).- R.P. Singh, H. Gao, D.T. Meshri, J.M. Shreeve: Nitrogen Rich Heterocycles.- T.M. Klapötke: New Nitrogen-Rich High Explosives.- R.D. Chapman: Organic Difluoramine Derivatives.- B.M. Rice, E.F.C. Byrd, W.D. Mattson: Computational Aspects of Nitrogen-Rich HEDMs.- S. Zeman: Sensitivities of High Energy Compounds.

Field of interest
Inorganic Chemistry

Target groups
Scientists and practitioners in the mentioned fields

Type of publication
Reviews

Due July 2007

2007. Approx. 290 p. Also available online. Hardcover

► * **€ (D) 209,00 | € (A) 214,86 | sFr 320,50**
ISBN 978-3-540-72201-4

Topics in Current Chemistry

Series editors: V. Balzani, K. Houk, H. Kessler, J. Lehn, S. Ley, A. d. Meijere, S. Schreiber, J. Thiem, B. Trost, F. Vögtle, H. Yamamoto

Volume 278

S. Braese, University of Karlsruhe, Germany (Ed.)

Combinatorial Chemistry on Solid Supports

Features
► Presents critical reviews of the present position and future trends in modern chemical research ► Short and concise reports on chemistry, each written by the world renowned experts ► Still valid and useful after 5 or 10 years ► More information as well as the electronic version of the whole content available at: springerlink.com

Contents
N. Jung, M. Wiehn, S. Bräse: Multifunctional Linkers for Combinatorial Solid Phase Synthesis.- N. Ljungdahl, K. Bromfield, N. Kann: Solid Phase Organometallic Chemistry.- F. Hahn, U. Schepers: Solid Phase Chemistry for the Directed Synthesis of Biologically Active Polyamine Analogs, Derivatives, and Conjugates.- M. Mentel, R. Breinbauer: Combinatorial Solid Phase Natural Product Chemistry.- M. Haack, A.G. Beck-Sickinger: Multiple Peptide Synthesis to Identify Bioactive Hormone Structures.- B. Castagner, P.H. Seeberger: Automated Solid Phase Oligosaccharide Synthesis.- N. Winssinger, Z. Pianowski, F. Debaene: Probing Biology with Small Molecule Microarrays (SMM).

Fields of interest
Organic Chemistry; Organometallic Chemistry ; Biochemistry, general

Target groups
Scientists and practitioners in the mentioned fields and in industry

Type of publication
Reviews

Due July 2007

2007. X, 332 p. Also available online. Hardcover

► * **€ (D) 266,43 | € (A) 273,90 | sFr 408,00**
ISBN 978-3-540-72509-1

V. Astashev, Institute of Machine Studies, Moscow, Russia; **V. I. Babitsky**, Loughborough University, Loughborough, UK

Ultrasonic Processes and Machines

Dynamics, Control and Applications

Translated from the Russian: K. Khusnutdinova

This work presents the foundations of dynamic and control for ultrasonic processing systems. This book considers ultrasonic systems as special vibratory machines that function by exploiting nonlinear dynamic processes. Recommendations are given for designing and tuning ultrasonic machines. The ultrasonic machines analysed are predominantly concerned with the processing of solids. Applications include: ultrasonic erosion, ultrasonic hardening, ultrasonic welding, ultrasonically assisted plastic deformation, ultrasonically assisted turning, and ultrasonically assisted drilling.
This book is intended for advanced students, engineers and researchers who are involved with the study, design and application of ultrasonic processing systems. Lecturers and students should also find useful examples of practical analysis and the application of nonlinear dynamical systems.

Features
► First and only book on the fundamentals of ultrasonic machining ► Authors are the leading experts in this field

Contents
Models of Ultrasonic Processes.- Dynamic Characteristics of Ultrasonic Machines.- Processes in Ultrasonic Systems.- The resonant tuning of Ultrasonic Machines.- Ultrasonically Assisted Machining.

Fields of interest
Theoretical and Applied Mechanics; Manufacturing, Machines, Tools; Numerical and Computational Methods in Engineering

Target groups
Researchers in mechanics, mechanical and industrial engineering

Type of publication
Monograph

Due July 2007

2007. Approx. 350 p. (Foundations of Engineering Mechanics) Hardcover

► * **€ (D) 139,05 | € (A) 142,95 | sFr 213,00**
ISBN 978-3-540-72060-7

N. Baba, Osaka Kyoiku University, Osaka, Japan; **L. C. Jain**, University of South Australia, Adelaide, SA, Australia; **H. Handa**, Osaka Kyoiku University, Osaka, Japan (Eds.)

Advanced Intelligent Paradigms in Computer Games

This book presents a sample of the most recent research concerning the application of computational intelligence techniques and internet technology in computer games. The contents include: COMMONS GAME in intelligent environment; adaptive generation of dilemma-based interactive narratives; computational intelligence in racing games; evolutionary algorithms for board game players with domain knowledge; the ChessBrain project; electronic market games; EVE's entropy; capturing player enjoyment in computer games.

Features
► Contains the latest research in the area of advanced intelligent paradigms in computer games

Contents
COMMONS GAME Made More Exciting by an Intelligent Utilization of Two Evolutionary Algorithms.- Adaptive Generation of Dilemma-based Interactive Narratives.- Computational Intelligence in Racing Games.- Evolutionary Algorithms for Board Game Players.- The ChessBrain Project.- Designing and developing marketing games.- EVES Entropy.- Capturing player enjoyment in computer games.

Fields of interest
Appl.Mathematics/Computational Methods of Engineering; Artificial Intelligence (incl. Robotics); Game Theory/Mathematical Methods

Target groups
Engineers, researchers, and graduate students in computational intelligence and computer sciences

Type of publication
Monograph

Due July 2007

2007. Approx. 350 p. Also available online. (Studies in Computational Intelligence, Volume 71) Hardcover

► * **€ (D) 139,05 | € (A) 142,95 | sFr 213,00**
ISBN 978-3-540-72704-0

R. C. Barr, **R. Plonsey**, Duke University, Durham, NC, USA

Bioelectricity

A Quantitative Approach

The study of electrophysiology has progressed rapidly because of the precise, delicate, and ingenious experimental studies of many investigators. The field has also made great strides by unifying these experimental observations through mathematical descriptions based on electromagnetic field theory, electrochemistry, etc., which underlies these experiments. In turn, these quantitative materials provide an understanding of many electrophysiological applications through a relatively small number of fundamental ideas.
Bioelectricity: A Quantitative Approach, is the new edition of the classic introductory text to electrophysiology. It covers many topics that are central to the field including: Electrical properties of the cell membrane; Action potentials; Cable theory; Electrical Stimulation; Extracellular Waveforms; Cardiac Electrophysiology; Function Stimulation (FES).

Features
► New edition updates the classic introductory text in electrophysiology ► Covers the most recent developments in the field, including experimental discoveries and new mathematical descriptions ► Includes Testing and Solutions Manual (CD-ROM) which provides solutions with commentary, useful appendices and study guides

Contents
Introduction.- Electrical Properties of the Cell Membrane.- Action Potentials.- Cable Theory.- Neuromuscular Junction.- Extracellular Fields.- Cardiac Electrophysiology.- Index.- CD-ROM Testing and Solutions Manual.

Fields of interest
Biomedical Engineering; Biophysics/Biomedical Physics; Biomedicine general

Target groups
Advanced undergraduates and graduate students in biomedical engineering, biophysics, and pharmaceutical engineering

Type of publication
Graduate/Advanced undergraduate textbook

Due July 2007

3rd ed. 2007. Approx. 600 p. Hardcover

► * **€ (D) 74,85 | € (A) 76,95 | sFr 115,00**
ISBN 978-0-387-48864-6

J. Benesty, Université de Québec, Montréal, QC, Canada; **M. M. Sondhi**, Avayalabs Research, Basking Ridge, NJ, USA; **Y. Huang**, Bell Labs, Murray Hill, NJ, USA (Eds.)

Springer Handbook of Speech Processing

From common consumer products such as cell phones and MP3 players to more sophisticated projects such as human-machine interfaces and responsive robots, speech technologies are now everywhere.

Features
► Authoritative desk reference of one of tomorrow's breakthrough technology ► Provides quick access to applicable, reliable, and comprehensive knowledge

Fields of interest
Signal Processing; Language Translation and Linguistics; Acoustics

Target groups
Researchers in electrical engineering, applied physics, computer science, and linguistics; development engineers in acoustics, signal processing, and telecommunications

Type of publication
Handbook

SPRINGER REFERENCE

Due November 2007

2008. Approx. 1500 p. 560 illus. With CD-ROM. Hardcover

► * **€ (D) 266,43 | € (A) 273,90 | sFr 408,00**
ISBN 978-3-540-49125-5
Prepublication price, valid until February 29, 2008: ► * € (D) 213,95 | € (A) 219,95 | sFr 328,00

2008. Online version.

► ** **€ (D) 296,31 | € (A) 298,80 | sFr 429,00**
ISBN 978-3-540-49127-9
Prepublication price, valid until February 29, 2008: ► ** € (D) 237,94 | € (A) 239,94 | sFr 344,50

2008. Approx. 1500 p. With CD-ROM. Print + Online.

► * **€ (D) 332,77 | € (A) 342,10 | sFr 510,00**
ISBN 978-3-540-49128-6
Prepublication price, valid until February 29, 2008: ► * € (D) 267,50 | € (A) 275,00 | sFr 410,00

W. Bracke, **R. Puers**, Katholieke Universiteit Leuven, Belgium; **C. Van Hoof**, Imec vzw, Belgium

Ultra Low Power Capacitive Sensor Interfaces

Ultra Low Power Capacitive Sensor Interfaces describes the design and theory of ultra low power capacitive sensor interfaces. The book's major asset is the realization of a very low power generic sensor interface chip, that is adaptable to a broad range of capacitive sensors. The book starts with an overview on the most important design aspects for autonomous sensor systems. The different building blocks are discussed and the modular architecture for the generic sensor interface chip is presented. Furthermore, the design of the analog components, such as capacitance-to-voltage converters, switched capacitor amplifier, Sigma Delta modulator, oscillators and reference circuits, is described in more detail. Finally, the generic sensor interface chip is applied in several state-of-the-art pressure sensor and accelerometer applications. Ultra Low Power Capacitive Sensor Interfaces is essential reading for anybody with an academic or professional interest in semiconductor design.

Features
► Low power sensor interface ► How to desing to obtain maximal flexiblity for the sensor specifications (generic) ► Capacitive sensor interface with wide range capabiliies

From the contents
Abstract. Contents. Symbols and Abbreviations.- 1 Introduction.- 2 Generic architectures for autonomous sensors.- 3 Generic Sensor Interface Chip.- 4 Algorithm for optimal configuration settings.- 5 Physical activity monitoring system.- 6 Conclusion.- Appendix. List of Publications. Bibliography.

Fields of interest
Circuits and Systems; Electronic and Computer Engineering; Electronics and Microelectronics, Instrumentation

Target groups
IC designers, system designers, electronic engineers, electronic product developers for autonomous systems, research students, academia

Type of publication
Monograph

Due June 2007

2007. Approx. 140 p. (Analog Circuits and Signal Processing) Hardcover

► * **€ (D) 106,95 | € (A) 109,95 | sFr 164,00**
ISBN 978-1-4020-6231-5

I. Bronshtein, **K. Semendyayev**, **G. Musiol**, **H. Muehlig**, Dresden, Germany

Handbook of Mathematics

This guide book to mathematics contains in handbook form the fundamental working knowledge of mathematics which is needed as an everyday guide for working scientists and engineers, as well as for students. Easy to understand, and convenient to use, this guide book gives concisely the information necessary to evaluate most problems which occur in concrete applications. In the newer editions emphasis was laid on those fields of mathematics that became more important for the formulation and modeling of technical and natural processes, namely Numerical Mathematics, Probability Theory and Statistics, as well as Information Processing. For the 5th edition, the chapters "Computer Algebra Systems" and "Dynamical Systems and Chaos" were fundamentally revised, updated and expanded. In the chapter "Algebra and Discrete Mathematics" a section on "Finite Fields and Shift Registers" was added.

Features
► Reference book providing rapid access to formulae, data, and concepts of applied mathematics ► Famous and classic reference book for engineers, physicists, and applied mathematicians worldwide

From the contents
Arithmetic.- Functions.- Geometry.- Linear Algebra.- Algebra and Discrete Mathematics.- Differentiation.- Infinite Series.- Integral Calculus.- Differential Equations.- Calculus of Variations.

Fields of interest
Appl.Mathematics/Computational Methods of Engineering; Mathematical and Computational Physics; Analysis

Target groups
Students, researchers and professionals in engineering, physics, and computer science

Type of publication
Reference work

Due August 2007

Based on the 6th German edition „Taschenbuch der Mathematik", published by Wissenschaftlicher Verlag Harri Deutsch, Frankfurt/M., 2005

5th ed. 2007. XLII, 1157 p. 745 illus., 142 tabs.

► * **€ (D) 64,15 | € (A) 65,95 | sFr 98,50**
ISBN 978-3-540-72121-5

O. Castillo, P. Melin, O. Montiel Ross, R. Sepúlveda Cruz, W. Pedrycz, J. Kacprzyk (Eds.)

Theoretical Advances and Applications of Fuzzy Logic and Soft Computing

This book comprises a selection of papers from the IFSA 2007 World Congress on theoretical advances and applications of fuzzy logic and soft computing. These papers were selected from over 400 submissions and constitute an important contribution to the theory and applications of fuzzy logic and soft computing methodologies. Soft Computing consists of several computing paradigms, including fuzzy logic, neural networks, genetic algorithms, and other techniques, which can be used to produce powerful intelligent systems for solving real-world problems. Applications range from pattern recognition to intelligent control and sow the advantages of using soft computing theory and methods. The papers of IFSA 2007 also make a contribution to this goal.

Features
► Proceedings of the IFSA World Congress 2007 held in Cancun, Mexico June 18- 21
► Recent research results in Fuzzy Logic and Soft Computing

From the contents
Part I Intuitionistic fuzzy sets and their applications.- Part II The application of fuzzy logic and soft computing in flexible quering.- Part III Philosophical and Human-scientific aspects of Soft Computing.- Part IV Search Engine and Information Processing and Retrieval.- Part V Perception Based Data Mining and Decision Making.- Part VI Soft Computing in Medical Sciences.

Fields of interest
Appl.Mathematics/Computational Methods of Engineering; Artificial Intelligence (incl. Robotics)

Target groups
Researchers, engineers, graduate students in soft computing, and statistics

Type of publication
Monograph

Due June 2007

2007. XXI, 895 p. Also available online. (Advances in Soft Computing, Volume 42) Softcover

► * **€ (D) 266,43 | € (A) 273,90 | sFr 408,00**
ISBN 978-3-540-72433-9

J. S. Chahl, L. C. Jain, A. Mizutani, M. Sato-Ilic (Eds.)

Innovations in Intelligent Machines – 1

This book includes a collection of chapters on the state of art in the area of intelligent machines. This research would provide a sound basis to make autonomous systems human-like.
The contributions include: an introduction to intelligent machines; supervisory control of multiple UAVs; intelligent autonomous UAV task allocation; UAV path planning; Dynamic path planning; Routing in UAVS; State estimation of micro air vehicles; Architecture for soccer playing robots; Robot perception.
Application engineers, scientists and researchers will find this book useful.

Features
► Latest research on the theory of intelligent machines and their applications

Contents
Intelligent Machines: An Introduction.- Prediction Operator Capacity for Supervisory Control of Multiple UAVs.- Team, game and Negotiation.- UAV Path Planning using Evolutionary Algorithms.- Evolution based Dynamic Path Planning for Autonomous Vehicles.- Algorithms for Routing Problems involving UAVs.- State Estimation of Micro Air Vehicles.- Evolutionary Design of a Control Architecture for Soccer-Playing Robots.- Toward Robot Perception and Future Directions.

Fields of interest
Appl.Mathematics/Computational Methods of Engineering; Artificial Intelligence (incl. Robotics)

Target groups
Researchers, engineers, graduate students in computational intelligence, computer science

Type of publication
Monograph

Due July 2007

2007. Approx. 400 p. Also available online. (Studies in Computational Intelligence, Volume 70) Hardcover

► * **€ (D) 139,05 | € (A) 142,95 | sFr 213,00**
ISBN 978-3-540-72695-1

F. Chinesta, E. Cueto (Eds.)

Advances in Material Forming

Esaform 10 years on

This book groups the main advances in material forming,considering different processes (conventional and non-conventional) focusing in polymers,composites and metals, that are analyzed from the state of the art, describing the most significant recent advances and identifying the present challenges from the experimental, modeling and numerical points of view. Chapters include a large list of references and have been written by recognized specialists. Special emphasis is devoted to the contributions of the European Scientific Association for Material Forming (ESAFORM) during the last 10 years (1998-2007) and in particular the ones coming from its annual international conference. Please visit www.esaform.org for further information.

Contents
Foreword.- A Brief Historical Review of the ESAFORM Association.- New and Advanced Numerical Strategies for the Simulation of Material Forming.- Flow-Induced Crystallization in Polymer Processing.- An Overview of Polymer Processing Modelling.- Composites Forming.- Current Status of Semi-Solid Processing of Metallic Materials.- Microforming and Nanomaterials.- Multiscale Approaches.- Anisotropy and Formability.- Sheet Metal Forming.- Advances and Progresses in Sheet and Tube Hydroforming Processes.- Hot Metal Extrusion.- Modelling of Cutting and Machining: 10 years of ESAFORM activity.

Fields of interest
Mechanical Engineering; Appl.Mathematics/Computational Methods of Engineering; Industrial and Production Engineering

Target groups
Researchers, professionals

Type of publication
Proceedings

Available

2007. Approx. 220 p. Softcover

► * **€ (D) 69,50 | € (A) 71,45 | sFr 106,50**
ISBN 978-2-287-72142-7

F. Christophersen, ETH Zurich, Switzerland

Optimal Control of Constrained Piecewise Affine Systems

Contents
I Background.- Mathematical Necessities.- Systems and Control Theory.- Receding Horizon Control.- Piecewise Affine Systems.- II Constrained Optimal Control of Piecewise Affine Systems.- Constrained Finite Time Optimal Control.- Constrained Infinite Time Optimal Control.- III Analysis and Post-Processing Techniques For Piecewise Affine Systems.- Linear Vector Norms as Lyapunov Functions.- Stability Analysis.- Stability Tubes.- Efficient Evaluation of Piecewise Control Laws over a Large Number of Polyhedra.

Fields of interest
Control Engineering; Systems Theory, Control

Target groups
Engineers, researchers, and students in control engineering

Type of publication
Monograph

Due July 2007

2007. Approx. 200 p. Also available online. (Lecture Notes in Control and Information Sciences, Volume 359) Softcover

► * **€ (D) 85,55 | € (A) 87,95 | sFr 131,00**
ISBN 978-3-540-72700-2

S. Das, BARC, Mumbai, India

Functional Fractional Calculus for System Identification and Controls

When a new extraordinary and outstanding theory is stated, it has to face criticism and skepticism, because it is beyond the usual concept. The fractional calculus though not new, was not discussed or developed for a long time, particularly for lack of its applications to real life problems. It is extraordinary because it does not deal with 'ordinary' differential calculus. It is outstanding because it can now be applied to situations where existing theories fail to give satisfactory results. In this book not only mathematical abstractions are discussed in a lucid manner, but also several practical applications are given particularly for system identification, description and then efficient controls.

Features
► Staringt point for research in applicatiosn of fractional calculus ► The reader gets a feeling of the wide applicabilityof fractional calculus in the field of science and engineering ► Written for a wide range of readers, who wish to learn the basic concepts of Fractional Calculus and its Applications ► A starter can understand the concepts of this emerging field with a minimal effort and basic mathematics

From the contents
Introduction to Fractional Calculus.- Functions used in Fractional Calculus.- Observation of Fractional Calculus in Physical System Description.- Concept of Fractional Divergence and Fractional Curl.- Fractional Differintegrations Insight Concepts.

Fields of interest
Appl.Mathematics/Computational Methods of Engineering; Mathematical and Computational Physics; Analysis

Target groups
Engineers, scientists, mathematicians, students in the field of fractional calculus

Type of publication
Monograph

Due September 2007

2007. Approx. 200 p. Hardcover

► * **€ (D) 106,95 | € (A) 109,95 | sFr 164,00**
ISBN 978-3-540-72702-6

New Series

Foundations in Signal Processing, Communications and Networking

This book series presents monographs about fundamental topics and trends in signal processing, communications and networking in the field of information technology. The main focus of the series is to contribute on mathematical foundations and methodologies for the understanding, modeling and optimization of technical systems driven by information technology. Besides classical topics of signal processing, communications and networking here the scope of this series includes many topics which are comparably related to information technology, network theory, and control. All monographs will share a rigorous mathematical approach to the addressed topics and an information technology related context.

G. Dietl, Technical University Munich, Germany

Linear Estimation and Detection in Krylov Subspaces

This book focuses on the foundations of linear estimation theory which is essential for effective signal processing. In its first part, it gives a comprehensive overview of several key methods like reduced-rank signal processing and Krylov subspace methods of numerical mathematics. Based on the derivation of the multistage Wiener filter in its most general form, the relationship between statistical signal processing and numerical mathematics is presented. In the second part, the theory is applied to iterative multiuser detection receivers (Turbo equalization) which are typically desired in wireless communications systems. The investigations include exact computational complexity considerations and performance analysis based on extrinsic information transfer charts as well as Monte-Carlo simulations.

Features
► Comprehensive overview of linear estimation algorithms

Contents
Theory: Linear Estimation in Krylov Subspaces.- Application: Iterative Multiuser Detection.

Fields of interest
Signal Processing; Scientific Computing; Statistics for Engineering, Physics, Computer Science, Chemistry and Geosciences

Target groups
Researchers in the fields of signal processing, information and communication theory

Type of publication
Monograph

Due July 2007

2007. Approx. 220 p. (Foundations in Signal Processing, Communications and Networking, Volume 1) Hardcover

► * **€ (D) 106,95 | € (A) 109,95 | sFr 164,00**
ISBN 978-3-540-68478-7

F. Dressler, University of Erlangen, Germany;
I. Carreras, CREATE-NET, Trento, Italy (Eds.)

Advances in Biologically Inspired Information Systems

Models, Methods, and Tools

Technology is taking us to a world where myriads of heavily networked devices interact with the physical world in multiple ways and at multiple scales, from the global Internet down to micro and nano devices. Many of these devices are highly mobile and must adapt to the surrounding environment in a totally unsupervised way.
A fundamental research challenge is the design of robust decentralized computing systems that are capable of operating under changing environments and noisy input, and yet exhibit the desired behavior and response time, under constraints such as energy consumption, size, and processing power.
Biological systems are able to handle many of these challenges with an elegance and efficiency still far beyond current human artifacts. The goal is to obtain methods on how to engineer technical systems, which have similar high stability and efficiency.

Features
► Recent advances in biologically inspired information systems ► Presents models, methods, and tools

Fields of interest
Appl.Mathematics/Computational Methods of Engineering; Artificial Intelligence (incl. Robotics); Bioinformatics

Target groups
Engineers, researchers, and graduate students in computational intelligence and computer science

Type of publication
Monograph

Due July 2007

2007. Approx. 290 p. Also available online. (Studies in Computational Intelligence, Volume 69) Hardcover

► * **€ (D) 106,95 | € (A) 109,95 | sFr 164,00**
ISBN 978-3-540-72692-0

K. Elleithy, University of Bridgeport, CT, USA (Ed.)

Advances and Innovations in Systems, Computing Sciences and Software Engineering

Advances and Innovations in Systems, Computing Sciences and Software Engineering includes a set of rigorously reviewed world-class manuscripts addressing and detailing state-of-the-art research projects in the areas of Computing Sciences, Software Engineering and Systems.
Advances and Innovations in Systems, Computing Sciences and Software Engineering includes selected papers form the conference proceedings of the International Conference on Systems, Computing Sciences and Software Engineering (SCSS 2006) which was part of the International Joint Conferences on Computer, Information and Systems Sciences and Engineering (CISSE 2006).

Features
► Provides a virtual forum for presentation and discussion of the state-of the-art research on computers, information and systems sciences and engineering

From the contents
Areas of Interest: Grid Computing, Internet-based Computing Models, Resource Discovery, Programming Models and tools, e-Science and Virtual Instrumentation, Biometric Authentication, Computers for People of Special Needs, Human Computer Interaction, Information and Knowledge Engineering, Algorithms, Parallel and Distributed processing etc.

Fields of interest
Circuits and Systems; Software Engineering

Target groups
Professors, lecturers, instructors, teachers in colleges and universities, researchers/scientists, graduate students, post-doctoral fellows, post-graduate students, and advanced undergraduate students

Type of publication
Proceedings

Due June 2007

2007. Approx. 400 p. Hardcover

► * **€ (D) 96,25 | € (A) 98,95 | sFr 147,50**
ISBN 978-1-4020-6263-6

M. Ergen, Wichorus, Inc., San Jose, CA, USA

WiMAX

OFDMA Wireless Broadband

This book addresses the emerging technology for OFDMA. It covers OFDMA physical layer as well as network technology. This book also includes information on IEEE 802.16e and WiMAX networks as well as comparision with the other OFDMA technologies.
OFDMA is the fastest growing area in the wireless marketplace. OFDMA is the backbone of systems used in WiMAX. WiMAX is the technology that enables users to communicate at any time from any location without having to find a WiFi hotspot. The author is very active in this area, he is a developer, and works with one of the leading Silicon Valley companies that has developed technology in this area. This plus the author's role as one of the principal contributors to the book, Multi-Carrier Digital Communications: Theory and Applications of OFDM, makes him an ideal person to write such a book.

Features
► Addresses the need for information on OFDMA and its present technology in 4G ► Informs academia about the emerging technology ► Helps industry to understand the OFDMA and IEEE 802.16e ► Assists developers and designers of OFDMA based networking systems

Contents
Introduction.- Principles of Wireless Cellular Networks.- Principles of OFDM.- OFDMA.- WiMAX Mobile Architecture.- IEEE 802.16e Physical Layer.- IEEE 802.16e/WiMAX Mobile Protocols.- Other OFDMA Based Technologies and Interworking.- Future Trends.

Fields of interest
Communications Engineering, Networks; Circuits and Systems; Signal Processing

Target groups
Graduate students and professionals in the OFDMA field

Type of publication
Professional book

Due October 2007

2007. Approx. 300 p. (Information Technology: Transmission, Processing and Storage) Hardcover

► approx. *** € (D) 102,99 | € (A) 105,88 | sFr 158,00**
ISBN 978-0-387-68189-4

K. Erlach, Fraunhofer Institut Stuttgart

Wertstromdesign

Der Weg zur schlanken Fabrik

Zur Optimierung der Produktion wurde in den letzten Jahren mit zunehmendem Erfolg das Wertstromdesign eingesetzt.
Diese Methode ist einzigartig durch ihre kompakte Visualisierung der gesamten Produktion inklusive des Material- und Informationsflusses. Damit zeigt sie Verbesserungspotenziale deutlich auf. Zentrales Element des Wertstromdesigns sind die ausführlich erläuterten Gestaltungsrichtlinien. Ihre Anwendung in einer aufeinander aufbauenden Reihenfolge erlaubt die zielorientierte Entwicklung eines idealen Soll-Zustands für die Produktion. Eine Systematik zur produktfamilienorientierten Fabrikstrukturierung rundet die Methodik ab. Das vorliegende Buch stellt die Wertstrommethode sorgfältig und so detailliert dar, dass sie auch bei einer komplexen Produktion zuverlässig anwendbar wird. Allgemeine Überlegungen zur Fabrik und den Zielen einer Produktion ergänzen die Darstellung des Wertstromdesigns. Beispiele aus der Praxis veranschaulichen deren Anwendung.

Pluspunkte
► Weiterentwicklung des klassischen Wertstromdesigns zeigt Verbesserungspotentiale im Materialfluss ► Material- und Informationsfluss in Produktion wird übersichtlich und vollständig dargestellt ► Klare, praxiserprobte Richtlinien

Fachgebiete
Betriebswirtschaft, Organisation, Materialwirtschaft,Logistik und Marketing in der Technik; Produktion und Fertigung; Produktion/Logistik

Zielgruppen
Führungskräfte und Entscheider aus den Bereichen Produktion, Logistik, Arbeitsvorbereitung, Produktionsplanung und -steuerung; Unternehmensberater mit dem Schwerpunkt Produktion, Institutionen der Wirtschaft und Verbände (REFA, MTM, RKW); Studenten Maschinenbau / Schwerpunkt Produktionsmanagement (Uni und FH)

Kategorie
Fachbuch

VDI

Erscheint Juni 2007

2007. XII, 286 S. 130 Abb. (VDI-Buch) Brosch.

► **€ (D) 59,95 | € (A) 61,63 | sFr 92,00**
ISBN 978-3-540-37178-6

R. Findeisen, **F. Allgöwer**, University of Stuttgart, Germany; **L. Biegler**, Carnegie Mellon University, Pittsburgh, PA, USA (Eds.)

Assessment and Future Directions of Nonlinear Model Predictive Control

Features
► Results of the international workshop entitled "Assesment and Future Directions of Nonlinear Model Predictive Control" (NMPC´05), which was held in Freudenstadt-Lauterbad, Germany on August 26-30, 2005

Contents
Foundations and History of NMPC.- Theoretical Aspects of NMPC.- Numerical Aspects of NMPC.- Robustness, Robust Design, and Uncertainty.- State Estimation and Output Feedback.- Industrial Perspective on NMPC.- NMPC and Process Control.- NMPC for Fast Systems.- Novel Applications of NMPC.- Distributed NMPC, Obstacle Avoidance, and Path Planning.

Fields of interest
Control Engineering; Systems Theory, Control

Target groups
Engineers, researchers, and students in control engineering

Type of publication
Monograph

Due June 2007

2007. Approx. 590 p. Also available online. (Lecture Notes in Control and Information Sciences, Volume 358) Softcover

► * **€ (D) 149,75 | € (A) 153,95 | sFr 229,50**
ISBN 978-3-540-72698-2

F. H. Fitzek, Aalborg University, Aalborg, Denmark; **F. Reichert**, Agder University, Grimstad, Norway (Eds.)

Mobile Phone Programming

and its Application to Wireless Networking

This book provides a solid overview of mobile phone programming targeting both academia and industry. The book covers all commercial realizations of Symbian, Windows Mobile and Linux platforms. Each programming language (JAVA, Python, C/C++) and a set of development environments are introduced "step by step" making developers familiar with current limitations, pitfalls, and challenges.
Each chapter contains examples and source code to rapidly make developers familiar with the most important concepts. Examples cover peer to peer networks, cooperative networking, cross layer protocol design, key challenges such as power consumption, and sensor networks for which a full hardware and software implementation is provided.
The book's DVD contains all presented development environments and source code examples. Whether you are an experienced developer or an advanced student this book will be your key reference for successfully entering the world of software development for mobile devices.

Features
► Code examples and most SDK on DVD ► Quick start with all languages ► Covering the convergence of mobile phones and sensors ► Energy Efficient Protocol Design

Contents
Part I: Introduction.- Part II: Mobile Phone Programming Languages.- Part III: Infrastructure Based Communication.- Part IV: Peer to Peer Communication.- Part V: Cooperative Communication.- Part VI: Cross Layer Communication.- Part VII: Sensor Networks.- Part VIII: Power Consumption in Mobile Devices.

Fields of interest
Communications Engineering, Networks; Signal Processing; Microwaves, RF and Optical Engineering

Target groups
Professionals, researchers and graduate level students active in the area of mobile phone programming, and wireless networks

Type of publication
Monograph

Due June 2007

2007. Approx. 480 p. With DVD. Hardcover

► * **€ (D) 74,85 | € (A) 76,95 | sFr 115,00**
ISBN 978-1-4020-5968-1

C. Galindo, **J. Fernández-Madrigal**, **J. Gonzalez**, University of Málaga, Spain

Multiple Abstraction Hierarchies for Mobile Robot Operation in Large Environments

This book focuses on the efficient performance of mobile robots through the use of multi-hierarchical symbolic representations of the environment.
A mobile robot intended to perform deliberative actions must possess some symbolic representation of its workspace, but such representations of real environments usually become so large that should be conveniently arranged in order to facilitate and, in some cases, make possible their use.
Apart from the drawback of dealing with large amounts of information, other problems stand out when using symbolic representations. One is keeping the model properly optimized with respect to the robot tasks while maintaining it coherent with reality. Another one is the creation (or modification) of symbols from sensorial data.

Features
► Addresses the main problems arising from the use of a symbolic representation for mobile robots through multi-hierarchical structures ► Focuses on the efficient performance of mobile robots through the use of a multi-hierarchical and symbolic representation of the environment ► Provides practical solutions tested on real robots like a robotic wheelchair for handicapped or elderly people

From the contents
A Robotic Future.- Multi-Hierarchical, Symbolic Representation of the Environment.- Application of Hierarchical Models to Mobile Robot Task Planning.

Fields of interest
Automation and Robotics; Appl.Mathematics/ Computational Methods of Engineering; Artificial Intelligence (incl. Robotics)

Target groups
Researchers, engineers, graduate students in computational intelligence; computer science and robotics

Type of publication
Monograph

Due July 2007

2007. Approx. 170 p. Also available online. (Studies in Computational Intelligence, Volume 68) Hardcover

► * **€ (D) 106,95 | € (A) 109,95 | sFr 164,00**
ISBN 978-3-540-72688-3

T. Grasser, **S. Selberherr**, Technical University of Vienna, Austria (Eds.)

Simulation of Semiconductor Processes and Devices 2007

SISPAD 2007

This volume will contain the proceedings of the 12th edition of the International Conference on Simulation of Semiconductor Processes and Devices (SISPAD 2007), which will take place in Vienna, Austria, on September 25-27, 2007. Like the previous meetings, SISPAD 2007 will provide a world-wide forum for the presentation and discussion of recent advances and developments in the theoretical description, physical modeling and numerical simulation and analysis of semiconductor fabrication processes, device operation and system performance.

Fields of interest
Electronics and Microelectronics, Instrumentation; Optical and Electronic Materials; Nanotechnology

Target groups
Researchers, electrical and electronics engineers

Type of publication
Proceedings

SpringerWienNewYork

Due August 2007

2007. Approx. 400 p. 450 illus. With CD-ROM. Hardcover

► * **€ (D) 106,95 | € (A) 109,95 | sFr 164,00**
ISBN 978-3-211-72860-4

E. Hering, Fachhochschule Aalen; **R. Martin**, Fachhochschule Esslingen; **M. Stohrer**, Fachhochschule Stuttgart

Physik für Ingenieure

Unter Mitarbeit von: G. Kurz, W. Schulz

Das erfolgreiche Lehrbuch wendet sich in erster Linie an Studierende; es bietet aber auch dem praktizierenden Ingenieur eine kompakte Darstellung physikalischer Grundlagen. Komplizierte Zusammenhänge werden in zweifarbigen Übersichten veranschaulicht. Zahlreiche Bilder aus der Technik und Berechnungsbeispiele aus dem Arbeitsumfeld des Ingenieurs vermitteln den Praxisbezug. Das Periodensystem der Elemente ist in zwei mehrfarbigen Falttafeln dargestellt.
Die 10. Auflage wurde völlig neu bearbeitet und ergänzt. Sie hat ein modernes Layout und wurde um ausführliche Lösungen zu den zahlreichen Übungsaufgaben erweitert.
Insbesondere wurden folgende Inhalte erneuert: Übersicht der Hydro- und Aerodynamik, Darstellung der Entropie, Elektrizität und Magnetismus, Brennstoffzellen, Schwingungen und Wellen, Radio und Fotometrie, Farbmetrik, Laseranwendungen, Übersicht zu Schallanwendungen, Solarzellen, neue Strahlenschutzbestimmungen, neue Erkenntnisse der Quantenphysik.

Pluspunkte
► Erfolgreicher Longseller ► Jubiläumsausgabe in neuem Layout ► Kompakte, übersichtliche Darstellung ► Anschauliche Lern- und Arbeitshilfen ► Strukturierte Übersichten ► Beispiele mit Ingenieuranwendungen ► Übungsaufgaben mit durchgerechneten Lösungen ► Umfassendes Standard-Nachschlagewerk

Inhalt
Einführung.- Mechanik.- Thermodynamik.- Elektrizität und Magnetismus.- Schwingungen und Wellen.- Optik.- Akustik.- Atom- und Kernphysik.- Festkörperphysik.- Spezielle Relativitätstheorie.- Durchgerechnete Lösungen.

Fachgebiete
Physik und angewandte Physik für Ingenieure; Messmethoden und -instrumente; Atom-, Molekül- und Plasmaphysik

Zielgruppen
Studenten der Ingenieur- und Naturwissenschaften, der Informatik; Ingenieure in der Praxis

Kategorie
Lehrbuch

Erscheint Juni 2007

10., vollst. neu bearb. Aufl. 2007. Etwa 900 S. (Springer-Lehrbuch) Geb.

► approx. **€ (D) 44,95 | € (A) 46,21 | sFr 69,00**
ISBN 978-3-540-71855-0

C. Hermans, **M. Steyaert**, KU Leuven, Belgium

Broadband Opto-Electrical Receivers in Standard CMOS

Broadband Opto-Electrical Receivers in Standard CMOS starts from the basic fundamentals necessary for the design of opto-electronic interface circuits. The book continues with an in-depth analysis of the photodiode, transimpedance amplifier (TIA) and limiting amplifier (LA). To thoroughly understand the light detection mechanisms in silicon, first a one-dimensional and second a two-dimensional model is developed. Analytical design equations are derived to guide the design of the amplifying circuits. For the TIA, the focus is on the sensitivity-speed trade-off. For the LA, a high gain-bandwidth is pursued. Several practical design examples reveal the subtleties and challenges encountered during the design of high-performance analog circuits.

Features
► Summary of 5 year research at one of Europe's most famous analog design research group ► Provides in-depth understanding of light detection mechanisms ► Numerous practical design examples of CMOS analog circuits ► Includes a full chapter dedicated to the measurements of opto-electrical CMOS realizations

From the contents
Abstract. List of Abbreviations and Symbols.- 1 Introduction.- 2 Optical Receiver Fundamentals.- 3 Standard CMOS Photodiodes. 4 Transimpedance Amplifier Design.- 5 Post-Amplifier Design.- 6 CMOS Realizations.- 7 Conclusions.- List of Publications. Bibliography.

Fields of interest
Circuits and Systems; Applied Optics, Optoelectronics, Optical Devices; Electronics and Microelectronics, Instrumentation

Target groups
Scientists, Master and Ph.D. students, analog design engineers, researchers in the field

Type of publication
Monograph

Due August 2007

2007. Approx. 250 p. (Analog Circuits and Signal Processing) Hardcover

► * **€ (D) 106,95 | € (A) 109,95 | sFr 164,00**
ISBN 978-1-4020-6221-6

H. Hu, Nanjing University of Aeronautics and Astronautics, Nanjing, China; **E. Kreuzer**, Hamburg University of Technology, Germany (Eds.)

IUTAM Symposium on Dynamics and Control of Nonlinear Systems with Uncertainty

Proceedings of the IUTAM Symposium held in Nanjing, China, September 18-22, 2006

The concept of dynamics and control implies the combination of dynamic analysis and control synthesis. It is essential to gain insight into the dynamics of a nonlinear system with uncertainty if any new control strategy is designed to utilize nonlinearity. However, the new control strategy to be proposed must be robust enough so that any unexpected small disturbances will not alter the desired target of control. Such a concept is calling more attention to the modelling and simplification of dynamic systems subject to uncertain environment, the fine analysis and robust design of controlled dynamic systems resulting in new control strategies due to understanding of nonlinear phenomena and artificial intelligence, the combination of passive control, active control and semi-active control, as well as the interaction among sensors, controllers and actuators.

Features
► A state-of-the-art treatise on the problems of both nonlinearity and uncertainty in the dynamics and control of engineering systems

From the contents
Preface. Opening Address. Welcome Address.- Contributed Papers: Part 1: System Modeling with Uncertainty.- Part 2 System Dynamics with Uncertainty.- Part 3 Nonlinear Dynamics.- Part 4 Dynamics of High-Dimensional Systems.- Part 5 Control of Nonlinear Dynamic Systems.- Part 6 Dynamics of Time-Delay Systems.- Author Index.

Fields of interest
Vibration, Dynamical Systems, Control; Appl. Mathematics/Computational Methods of Engineering; Theoretical and Applied Mechanics

Target groups
Mechanical engineers, civil engineers, applied mathematicians, control engineers

Type of publication
Proceedings

Due June 2007

2007. Approx. 420 p. (IUTAM Bookseries, Volume 2) Hardcover

► * **€ (D) 112,30 | € (A) 115,45 | sFr 172,00**
ISBN 978-1-4020-6331-2

M. Iskander, University of Bridgeport, CT, USA (Ed.)

Innovations in E-learning, Instruction Technology, Assessment and Engineering Education

Innovations in E-learning, Instruction Technology, Assessment and Engineering Education includes a set of rigorously reviewed world-class manuscripts addressing and detailing state-of-the-art research projects in the areas of Engineering Education, Instructional Technology, Assessment, and E-learning.
Innovations in E-learning, Instruction Technology, Assessment and Engineering Education includes selected papers form the conference proceedings of the International Conference on Engineering Education, Instructional Technology, Assessment, and E-learning (EIAE 2006) which was part of the International Joint Conferences on Computer, Information and Systems Sciences and Engineering (CISSE 2006).

Features
► Provides a virtual forum for presentation and discussion of the state-of the-art research on computers, information and systems sciences and engineering

Contents
Areas of Interest: Instructional Design, Accreditation, Curriculum Design, Educational Tools, 2-2-2 Platforms, Teaching Capstone Design, Teaching Design at the Lower Levels, Design and Development of e-Learning tools, Assessment Methods in Engineering, Development and Implementation of E-learning tools, Economical and Social Impacts of E-learning, Systems and Frameworks for K-12, Industry and higher education Cooperation.

Field of interest
Circuits and Systems

Target groups
Professors, lecturers, instructors, teachers in colleges and universities, researchers/scientists (national research labs, industry research labs, industrial research and development centers, university research labs), graduate students, post-doctoral fellows and post-graduate students and advanced undergraduate students

Type of publication
Proceedings

Due June 2007

2007. Approx. 400 p. Hardcover

► * **€ (D) 96,25 | € (A) 98,95 | sFr 147,50**
ISBN 978-1-4020-6261-2

L. C. Jain, **V. Palade**, **D. Srinivasa** (Eds.)

Advances in Evolutionary Computing for System Design

Evolutionary computing paradigms offer robust and powerful adaptive search mechanisms for system design. This book includes thirteen chapters covering a wide area of topics in evolutionary computing and applications including: Introduction to evolutionary computing in system design; evolutionary neuro-fuzzy systems; evolution of fuzzy controllers; genetic algorithms for multi-classifier design; evolutionary grooming of traffic; evolutionary particle swarms; fuzzy logic systems using genetic algorithms; evolutionary algorithms and immune learning for neural network-based controller design; distributed problem solving using evolutionary learning; evolutionary computing within grid environment; evolutionary game theory in wireless mesh networks; hybrid multiobjective evolutionary algorithms for the sailor assignment problem; evolutionary techniques in hardware optimization.

Features
► Latest research on the evolution of intelligent systems and their applications

From the contents
Introduction to Evolutionary Computing in System Design.- Evolutionary Neuro-Fuzzy Systems and Applications.- Evolution of Fuzzy Controllers and Applications.- A Neuro-Genetic Approach for Multi-Classifier Design.- Evolutionary Grooming of Traffic.- Evolutionary Particle Swarms.

Fields of interest
Appl.Mathematics/Computational Methods of Engineering; Artificial Intelligence (incl. Robotics)

Target groups
Researchers, engineers, graduate students in computational intelligence, evolving intelligent systems

Type of publication
Monograph

Due July 2007

2007. Approx. 400 p. Also available online. (Studies in Computational Intelligence, Volume 66) Hardcover

► * **€ (D) 139,05 | € (A) 142,95 | sFr 213,00**
ISBN 978-3-540-72376-9

V. G. Kaburlasos, Technological Educational Institution of Kavala, Greece; **G. X. Ritter**, University of Florida, Gainesville, FL, USA (Eds.)

Computational Intelligence Based on Lattice Theory

The emergence of lattice theory within the field of computational intelligence (CI) is partially due to its proven effectiveness in neural computation. Moreover, lattice theory has the potential to unify a number of diverse concepts and aid in the cross-fertilization of both tools and ideas within the numerous subfields of CI. The compilation of this eighteen-chapter book is an initiative towards proliferating established knowledge in the hope to further expand it. This edited book is a balanced synthesis of four parts emphasizing, in turn, neural computation, mathematical morphology, machine learning, and (fuzzy) inference/logic. The articles here demonstrate how lattice theory may suggest viable alternatives in practical clustering, classification, pattern analysis, and regression applications.

Features
► Resent results of Computational Intelligence Based on Lattice Theory ► Outcome of a special session held during in WCCI 2006

Contents
Part I Neural Computation.- Part II Mathematical Morphology Applications.- Part III Machine Learning Applications.- Part IV Logic and Inference.

Fields of interest
Appl.Mathematics/Computational Methods of Engineering; Artificial Intelligence (incl. Robotics)

Target groups
Researchers, engineers, graduate students in computational intelligence, computer science

Type of publication
Monograph

Due July 2007

2007. Approx. 370 p. Also available online. (Studies in Computational Intelligence, Volume 67) Hardcover

► * **€ (D) 139,05 | € (A) 142,95 | sFr 213,00**
ISBN 978-3-540-72686-9

H. Labiod, ENST, Paris, France; **M. Badra**, CNRS, LIMOS Laboratory-UMR, Aubière, France (Eds.)

New Technologies, Mobility and Security

Proceedings of NTMS 2007 Conference

NTMS'2007 is the first IFIP International Conference on New Technologies, Mobility and Security that was held from May 2 to May 4, 2007 in Paris, France.
NTMS'2007 aims at fostering advances in the areas of New Technologies, Wireless Networks, Mobile Computing, Ad hoc and Ambient Networks, QoS, Network Security and E-commerce, to mention a few, and provides a dynamic forum for researchers, students and professionals to present their state-of-the-art research and development in these interesting areas. The event was combined with tutorial sessions and workshops. Tutorials preceded the main program, aiming at the dissemination of mature knowledge and technology advances in the field. One Workshop immediately followed the main conference, offering the opportunity for a more focused exchange of ideas and presentation of on-going research relevant to selected topics.

Features
► NTMS'2007 is the first International Conference on New Technologies, Mobility and Security that will be held from May 2 to May 4, 2007 in Paris, France ► Provides a dynamic forum for researchers, students and professionals ► State-of-the-art overview on Emerging Technologies in Communications

Fields of interest
Communications Engineering, Networks; Signal Processing

Target groups
Engineers, R and D engineers, postgraduate and PHD students, researchers/scientists, academias, industry suppliers, providers, representatives from international and regional organizations, etc.

Type of publication
Monograph

Due June 2007

2007. Approx. 200 p. Hardcover

► * **€ (D) 106,95 | € (A) 109,95 | sFr 164,00**
ISBN 978-1-4020-6269-8

D. Marchisio, Politecnico di Torino, Italy; **R. Fox**, Iowa State University, Ames, IA, USA (Eds.)

Multiphase reacting flows: modelling and simulation

The papers in this book describe the most widely applicable modeling approaches and are organized in six groups covering from fundamentals to relevant applications. In the first part, some fundamentals of multiphase turbulent reacting flows are covered. In particular the introduction focuses on basic notions of turbulence theory in single-phase and multi-phase systems as well as on the interaction between turbulence and chemistry. In the second part, models for the physical and chemical processes involved are discussed. Among other things, particular emphasis is given to turbulence modeling strategies for multiphase flows based on the kinetic theory for granular flows. Next, the different numerical methods based on Lagrangian and/or Eulerian schemes are presented. In particular the most popular numerical approaches of computational fluid dynamics codes are described (i.e., Direct Numerical Simulation, Large Eddy Simulation, and Reynolds-Averaged Navier-Stokes approach).

Fields of interest
Mechanical Engineering; Appl.Mathematics/ Computational Methods of Engineering; Industrial Chemistry/Chemical Engineering

Target groups
Engineers, graduate students, researchers

Type of publication
Monograph

SpringerWienNewYork

Due June 2007

2007. Approx. 290 p. 84 illus. (CISM International Centre for Mechanical Sciences, Number 492) Softcover

► * **€ (D) 74,85 | € (A) 76,95 | sFr 115,00**
ISBN 978-3-211-72463-7

M. Meissner, **H. Schorcht**, Technische Universität Ilmenau

Metallfedern

Grundlagen, Werkstoffe, Berechnung, Gestaltung und Rechnereinsatz

Unter Mitarbeit von: K. Wanke

Das vorliegende Buch behandelt die Berechnungsgrundlagen für Federn aus metallischen Werkstoffen. Die grundsätzlichen Verfahren und Probleme der Federherstellung werden beschrieben und an zahlreichen Anwendungsbeispielen für Federanwendungen dargestellt. Praktische Berechnungsbeispiele ergänzen die Ausführungen. Wärmebehandlung, Oberflächenbehandlung, Eigenspannungen und Dauerfestigkeiten sind entscheidend für die Qualität und werden daher vertiefend beschrieben. Erneuert und ergänzt wurden in dieser Auflage die Angaben zu den Normen für Federn und Federwerkstoffe sowie die Ausführungen über die Anwendung moderner Berechnungssoftware für den Federentwurf und die Simulation des Betriebsverhaltens von Federn und Federanordnungen.

Pluspunkte
► Berechnungsgrundlagen von Federn aus metallischen Werkstoffen ► Anwendungsbeispiele ► Berechnungsbeispiele und Hinweise zur Simulation

Fachgebiete
Konstruktionslehre, Produktentwicklung; Maschinen und Maschinenelemente; Beschreibung und Auswertung von Werkstoffen

Zielgruppen
Ingenieure aus den Bereichen Maschinenbau, Automotive sowie Luft- und Raumfahrtechnik; Ingenieure aus der Forschung und Entwicklung sowie der Produktionstechnik; Studenten an Technischen Universitäten und Hochschulen der genannten Fachrichtungen

Kategorie
Fachbuch

VDI

Erscheint Juni 2007

Ursprünglich erschienen als Band 41 in der Reihe: Konstruktionsbücher

2., erg. Aufl. 2007. XXVIII, 556 S. 338 Abb. 90 Tabellen. (VDI-Buch) Geb.

► **€ (D) 89,95 | € (A) 92,48 | sFr 138,00**
ISBN 978-3-540-49868-1

P. Melin, **O. Castillo**, **E. G. Ramírez**, **J. Kacprzyk**, **W. Pedrycz** (Eds.)

Analysis and Design of Intelligent Systems using Soft Computing Techniques

This book comprises a selection of papers from IFSA 2007 on new methods for analysis and design of hybrid intelligent systems using soft computing techniques. Soft Computing (SC) consists of several computing paradigms, including fuzzy logic, neural networks, and genetic algorithms, which can be used to produce powerful hybrid intelligent systems for solving problems in pattern recognition, time series prediction, intelligent control, robotics and automation. Hybrid intelligent systems that combine several SC techniques are needed due to the complexity and high dimensionality of real-world problems. Hybrid intelligent systems can have different architectures, which have an impact on the efficiency and accuracy of these systems, for this reason it is very important to optimize architecture design.

Features
► Proceedings of the IFSA World Congress 2007 held in Cancun, Mexico June 18- 21
► Recent research results in Fuzzy Logic and Soft Computing

Contents
Part I Type-2 Fuzzy Logic: Theory and Applications.- Part II Fuzzy Clustering: Theory and Applications.- Part III Intelligent Identification and Control .- Part IV Time Series Prediction.- Part V Pattern Recognition.- Part VI Evolutionary Computation.- Part VII Fuzzy Modeling.- Part VIII Intelligent Manufacturing and Scheduling.- Part IX Intelligent Agents.- Part X Neural Networks Theory.- Part XI Robotics.- Part XII Fuzzy Logic Applications.

Fields of interest
Appl.Mathematics/Computational Methods of Engineering; Artificial Intelligence (incl. Robotics); Applications of Mathematics

Target groups
Researchers, engineers, graduate students in soft computing and statistics

Type of publication
Monograph

Due June 2007

2007. XXI, 855 p. Also available online. (Advances in Soft Computing, Volume 41) Softcover

► * **€ (D) 266,43 | € (A) 273,90 | sFr 408,00**
ISBN 978-3-540-72431-5

J. Mikles, **M. Fikar**, Slovak University of Technology, Bratislava, Slovak Republic

Process Modelling, Identification, and Control

This compact and original reference and textbook presents the most important classical and modern essentials of control engineering in one book. It constitutes a harmonic mixture of control theory and applications, which makes the book especially useful for graduate students, practicing engineers and researchers interested in modeling and control of processes. This well written and easily understandable book includes a broad spectrum of methods for the analysis and design of control systems in a very thorough way. The book includes solved multitude of practical applications, examples, exercises and unsolved problems at the end of each chapter as well as Matlab tools which are freely available at the web page of the book.

Features
► Unique and original textbook, presenting all the most important classical and modern essentials of control engineering in a unified framework
► The content represents a good mixture between control theory and its practical applications
► Includes excercises, examples, and matlab tools. ► Well written, clearly readable and easily understandable book

Contents
Introduction.- Mathematical Modelling of Processes.- Analysis of Process Models.- Dynamical Behaviour of Processes.- Discrete- Time Process Models.- Process Identification.- The Control Problem and Design of Simple Controllers.- Optimal Process Control.- Predictive Control.- Adaptive Control.

Fields of interest
Control Engineering; Automation and Robotics; Systems Theory, Control

Target groups
Graduate students of control engineering, automation, process control, and electrical engineering

Type of publication
Monograph

Due July 2007

2007. Approx. 480 p. Hardcover

► * **€ (D) 85,55 | € (A) 87,95 | sFr 131,00**
ISBN 978-3-540-71969-4

E. Y. Ng, **N. Liu**, Nanyang Technological University, Singapore

Compressor Instability

with Integral Methods

"Compressor Instability with Integral Methods" is a book, to bring together the quick integral approaches and advances in the field for the prediction of stall and surge problem in compressor. This book is useful for people involved in the flow analysis, design and testing of rotating machinery. For students, it can be used as a specialized topic of senior undergraduate or graduate study. The book can also be served as a self-study material to those who keen to acquire this knowledge.
In brief, this book focuses on the numerical/computational analysis for the effect of distorted inlet flow propagation on the rotating stall and surge in axial compressors. It gains insight into the basic phenomena controlling these flow instabilities, and reveals the influence of inlet parameters on rotating stall and surge. The book starts from the confirmation and application of Kim et al.'s integral method and then follows by a development to this method through the proposing and applying a critical distortion line.

Features
► Hot topic for Practitioners and Designers in Mechanical and Aeronautical Engineering
► Treat distortion und stall in turbines

Contents
Study on the Propagation of Inlet Flow Distortion in Axial Compressor Using an Integral Method.- Stall Prediction of In-Flight Compressor due to Flamming of Refueling Leakage near Inlet.- Parametric Study of Inlet Distortion Propagation in Compressor with Integral Approach and Taguchi Method.- A Development of Novel Integral Method for Prediction of Distorted Inlet Flow Propagation in Axial Compressor.- Parametric Study of Greitzer's Instability Flow Model Through Compressor System Using Taguchi Method.

Fields of interest
Engineering Fluid Dynamics; Numerical and Computational Methods in Engineering; Engineering Thermodynamics, Transport Phenomena

Target groups
Engineers, designers, scientists, and postgraduates in mechanical, aerospace sciences, and engineering

Type of publication
Monograph

Due July 2007

2007. Approx. 200 p. Hardcover

► * **€ (D) 106,95 | € (A) 109,95 | sFr 164,00**
ISBN 978-3-540-72411-7

H. M. Ozaktas, L. Onural, Bilkent University, Ankara, Turkey (Eds.)

Three-Dimensional Television

Capture, Transmission, Display

Real Three-Dimensional Television is not the stereoscopic vision on a two-dimensional display but should be understood as the perception of displayed objects in the three-dimensional space. Recent advances in the computer power and optical technology have now brought us to the point where we can seriously consider making this technology a reality. This book is the condensed result of an European project involving 19 partner institutions, over 140 PhD researchers, and numerous graduate students developing the future of 3d-Television. The describe the state of the art of the important topics: Capture: Capture 3D scene to provide input to 3DTV system; Scene Representation: Abstract representation of captured 3D scene information in digital form; Coding: Specify the exchange format of the data; Transmission: Transmit coded data; Signal Processing: Conversion of 3DTV data to suitable forms for holographic and other displays; Display: Equipment to decode and display 3DTV signal.

Features
► The most important European researchers fix the state of art in 3-Dimensional TV

From the contents
A backward-compatible, mobile, personalized 3DTV broadcasting system based on T-DMB.- Reconstructing human shape, motion and appearance from multi-view video.- Utilization of the texture uniqueness cue in stereo.- Pattern projection profilometry for 3D coordinates measurement of dynamic scenes.- Three-dimensional scene representations: modelling, animation, and rendering techniques.

Fields of interest
Signal Processing; Communications Engineering, Networks; Image Processing

Target groups
Academic and developing engineers and physicists

Type of publication
Monograph

Due July 2007

2007. Approx. 800 p. (Signals and Communication Technology) Hardcover

► * **€ (D) 213,95 | € (A) 219,95 | sFr 328,00**
ISBN 978-3-540-72531-2

J. M. Palma, A. S. Lopes, Universidade do Porto, Portugal (Eds.)

Vortex Dynamics and Field Interactions

Proceedings of the 11th Euromech Conference

This volume comprises the communications presented at the ETC 11, the EUROMECH European Turbulence conference held in 2007 in Porto. The scientific committee has chosen the contributions out of the following topics: Acoustics of turbulent flows; Atmospheric turbulence; Control of turbulent flows; Geophysical and astrophysical turbulence; Instability and transition; Intermittency and scaling; Large eddy simulation and related techniques; MHD turbulence; Reacting and compressible turbulence; Transport and mixing; Turbulence in multiphase and non-Newtonian flows; Vortex dynamics and structure formation; Wall bounded flows.

Features
► Proceeding of the 11th EUROMECH European Turbulence Conference (ETC 11), held in Porto 2007

Contents
Experiments on Lagrangian Statistics in Intense Turbulence.- Wall-Layer Models for Large-Eddy Simulations of High-Reynolds Number Non-Equilibrium Flows.- Two-Dimensional Turbulence on a Confined Domain with No-Slip Walls.- Turbulence of Drag-Reducing Polymer Solutions.- LES of compressible Inert and Reacting Turbulent Shear Flows.- Turbulent Modification of Upward Bubbly Channel Flow with Surfactant.- Transition and Transition Control in a Square Cavity.- Progress in Large Eddy Simulation Modeling of Temporally and Spatially Complex Land-Atmosphere Interactions.

Fields of interest
Engineering Fluid Dynamics; Vibration, Dynamical Systems, Control; Fluids

Target groups
Researchers, engineers, mathematicians, and graduated students in turbulence

Type of publication
Proceedings

Due June 2007

2007. Approx. 800 p. (Springer Proceedings in Physics, Volume 117) Hardcover

► * **€ (D) 266,43 | € (A) 273,90 | sFr 408,00**
ISBN 978-3-540-72603-6

A. Pech, FH Bau, Wien; **K. Jens**, Wien

Elektro- und Regeltechnik

Dieser Band der Fachbuchserie „Baukonstruktionen“ soll zur angemessenen und zeitgerechten Berücksichtigung von elektrotechnischen Installationen bei der Gebäudeplanung beitragen. Anwendungsbereiche und Funktionsweisen wesentlicher Anlagenkomponenten sind beschrieben. Für die angemessene Berücksichtigung baulicher Vorkehrungen in Vorentwürfen sind Erfahrungsrichtwerte und Auszüge aus EN- Normen angeführt. Für die Erleichterung von Betriebsführung und Anlageninstandhaltung sind Planungsgrundsätze zusammengestellt und mit konkreten Ausführungsvorschlägen erläutert. Einer dieser Vorschläge betrifft beispielsweise die Umsetzung einer durchgängigen Bauteildokumentation von der Planungs- und Bauphase über die Nutzungs- und Erneuerungsphasen bis schließlich zur Bauteilentsorgung.

Pluspunkte
► Elektrotechnik für Gebäudeplanung
► Planungshilfe für Neuanlagen
► Aus-führungsvorschläge und Instandhaltung

Inhalt
Stromversorgungsanlagen.- Beleuchtungsanlagen.- Kommunikationsanlagen.- Mess-, Steuer- und Regelanlagen.- Planungsgrundsätze.- Sicherheitsvorkehrungen.- Wirtschaftlichkeit und Nachhaltigkeit.- Bemessungsrichtwerte und technische Richtlinien.

Fachgebiete
Bauwesen und Bautechnik

Zielgruppen
Studenten des Bauingenieurwesens und der Architektur

Kategorie
Lehrbuch

SpringerWienNewYork

Erscheint Juni 2007

Angezeigt in Highlights 03/2006

2007. X, 145 S. zahlreiche Abb., zum Teil in Farbe. (Baukonstruktionen, Volume 17) Geb.

► approx. **€ (D) 24,00 | € (A) 24,00 | sFr 37,00**
ISBN 978-3-211-33034-0

P. Quinn, Xilinx Inc., Santa Clara, CA, USA;
A. H. Roermund, Technical University of Eindhoven, The Netherlands

High-Accuracy Switched-Capacitor Techniques

Applied to Filter and ADC Design

In Switched-Capacitor Techniques for High-Accuracy Filter and ADC Design, alternative SC techniques are proposed which allow the achievement of higher intrinsic analogue functional accuracy than previously possible in such application areas as analogue filter and ADC design. The design philosophy is to create the required functionality without relying on digital calibration or correction means but instead to develop methods which have reduced dependence on both component matching (especially capacitor matching) and parasitic effects (especially parasitic capacitance). However, the proposed techniques are just as amenable to further digital accuracy enhancement via calibration and/or correction as traditional methods. Two popular application areas are explored for exploitation of the proposed techniques, viz. SC filters and algorithmic ADCs - both cyclic and pipelined. Furthermore, efficient system level design procedures are explored in each of these two areas.

Features
► New techniques allow the achievement of higher intrinsic functional accuracy beyond the accuracy of component matching alone ► Clear explanation on the practical limitations and trade-offs of designing accurate CMOS switched-capacitor circuits both at system level and at basic circuit level

From the contents
1: Introduction. 2: Key Concepts for Accurate SC Design. 3: SC Amplifier Design at Black-Box Level. 4: Amplifier Architectures for SC Applications. 5: Low-Sensitivity SC BPF Concepts.

Fields of interest
Circuits and Systems; Electronics and Microelectronics, Instrumentation; Electronic and Computer Engineering

Target groups
Mixed-signal and analogue design engineers and researchers; IC designers who wish to further their knowledge on switched-capacitor techniques; data converter experts, filter design experts

Type of publication
Monograph

Due June 2007

2007. Approx. 250 p. (Analog Circuits and Signal Processing) Hardcover

► * **€ (D) 106,95 | € (A) 109,95 | sFr 164,00**
ISBN 978-1-4020-6257-5

T. G. Robertazzi, Stony Brook University, Stony Brook, NY, USA

Networks and Grids

Technology and Theory

This textbook is intended for an undergraduate/graduate course on computer networks and for introductory courses dealing with performance evaluation of computers, networks, grids and telecommunication systems. Unlike other books on the subject, this text presents a balanced approach between technology and mathematical modeling. It covers networking and grid technology, algorithms (routing, error codes, protocol verification) and analysis (probability for networking with technological examples, queueing models and divisible load scheduling theory). This self-contained text progresses systematically and gives students numerous problems at the end of each chapter. Students in electrical engineering, computer engineering and computer science departments will benefit from this book as will engineers and computer scientists working in relevant fields. A separate solutions manual is available to instructors.

Features
► Presents a balanced approach between technology and mathematical modeling ► Systematic presentation with numerous examples and problems for students

Contents
Preface.- A Tour through Networking and Grids.- Fundamental Stochastic Models.- Queuing Models.- Fundamental Deterministic Algorithms.- Divisible Load Modeling for Grids.- Appendix A: Summation Formulas.- References.- Index.

Fields of interest
Communications Engineering, Networks; Applications of Mathematics; Computer Communication Networks

Target groups
Undergraduate and graduate students in computer science, electrical or computer engineering

Type of publication
Graduate/Advanced undergraduate textbook

Due July 2007

2007. Approx. 296 p. 115 illus. (Information Technology: Transmission, Processing and Storage) Hardcover

► approx. * **€ (D) 65,91 | € (A) 67,76 | sFr 101,00**
ISBN 978-0-387-36758-3

D. Schröder, Technische Universität München

Elektrische Antriebe - Grundlagen

Mit durchgerechneten Übungs- und Prüfungsaufgaben

Dieses bewährte Lehrbuch ist eine Einführung in die Antriebstechnik, wie sie in den Vorlesungen für Studenten der elektrischen Energietechnik, der Automatisierungstechnik oder verwandter Studienrichtungen gelehrt wird. Auch in der inzwischen dritten Auflage wurde dabei größte Aufmerksamkeit auf hohe Verständlichkeit gesetzt. Und so ist das Werk gleichermaßen in Universitäten und Fachhochschulen und als Nachschlagewerk in der Praxis einsetzbar. Den Grundlagen der Antriebsanordnungen, den Verlusten und der Erwärmung sind jeweils eigene Kapitel gewidmet. Gleichstrommaschine und Drehfeldmaschinen - Asynchron- und Synchronmaschine - werden ausführlich behandelt, ebenso die Grundlagen der Regelung und der Umrichterantriebe. Am Ende des Buches finden sich instruktive Übungsaufgaben mit Lösungen. Dieser Grundlagenband gehört zu einem umfassenden Gesamtwerk mit weiteren vertiefenden Bänden zur Leistungselektronik und Regelung von Antrieben.

Pluspunkte
► Verständliche Einführung in das Pflichtfach ► Mit instruktiven Übungsaufgaben mit Lösungen ► Bestens geeignet zum schnellen Nachschlagen in der Praxis

Aus dem Inhalt
Antriebsanordnungen: Grundlagen.- Verluste und Erwärmung im Antriebssystem.- Gleichstrommaschine.- Stellglieder und Regelung für die Gleichstrommaschine.- Stellglieder und Regelung für die Gleichstrommaschine.

Fachgebiet
Gewinnung und Weiterleitung elektrischer Energie

Zielgruppen
Studenten in Mechatronik, Automatisierungstechnik und elektrischer Energietechnik

Kategorie
Lehrbuch

Erscheint August 2007

3. Aufl. 2007. Etwa 720 S. 421 Abb. (Springer-Lehrbuch) Brosch.

► **€ (D) 39,95 | € (A) 41,07 | sFr 61,50**
ISBN 978-3-540-72764-4

Y. Shimizu, **Z. Zhong**, **R. Batres**, Toyohashi University of Technology, Aichi, Japan

Frontiers in Computing Technologies for Manufacturing Applications

In today's competitive world, industries are focusing on shorter lead times, improved quality, reduced cost, increased profit, improved productivity and better customer service. As ERP and other information management systems have been implemented, information growth poses new challenges to decision makers in manufacturing.
This book is an overview of intelligent computing in manufacturing. Modelling, data processing, algorithms and computational analysis of problems found in advanced manufacturing are discussed. Techniques are presented to aid decision makers dealing with multiple, conflicting objectives. Readers will learn about computational technologies that can improve the performance of manufacturing systems.
As the first book to bring together combinatorial optimization, information systems and fault diagnosis and monitoring in a consistent manner, this book will interest students in industrial and mechanical engineering, information engineers and technical decision makers.

Features
► First book to bring together combinatorial optimization, information systems and fault diagnosis and monitoring in a consistent manner
► Includes both soft-computing and artificial intelligence applications in manufacturing

Contents
Introduction.- Metaheuristic Optimization under Certain and Uncertain Environments.- Multi-Objective Optimization through Metaheuristic and Soft Computing Approaches.- Cellular Neural Networks on Intelligent Sensing and Diagnosis.- Wavelet Transform on Signal and Image Processing.- Integration of Information Systems.- Summary.

Fields of interest
Manufacturing, Machines, Tools; Systems and Information Theory in Engineering; Computer-Aided Engineering (CAD, CAE) and Design

Target groups
Postgraduate students, researchers

Type of publication
Monograph

Due November 2007

2007. Approx. 325 p. 178 illus. (Springer Series in Advanced Manufacturing) Hardcover

► * **€ (D) 128,35 | € (A) 131,95 | sFr 197,00**
ISBN 978-1-84628-954-5

Y. Shmaliy, Guanajuato University, Mexico

Continuous-Time Systems

Continuous-Time Systems is a description of linear, nonlinear, time-invariant, and time-varying electronic continuous-time systems. As an assemblage of physical or mathematical components organized and interacting to convert an input signal (also called excitation signal or driving force) to an output signal (also called response signal), an electronic system can be described using different methods offered by the modern systems theory. To make possible for readers to understand systems, the book systematically covers major foundations of the systems theory. First, the quantitative and qualitative methods of systems description are presented along with the stability analysis. The representation of linear time-invariant systems in the time domain is provided using the convolution, ordinarily differential equations (ODEs), and state space.

Features
► Electronic systems ► Linear time-invariant systems ► Linear time-varying systems
► Nonlinear time-invariant systems
► Nonlinear time-varying systems

Fields of interest
Signal Processing; Communications Engineering, Networks; Microwaves, RF and Optical Engineering

Target groups
Undergraduate students, graduate students, postgraduate students and researches, engineers in system design, wireless systems, communications, radars, satellite systems

Type of publication
Monograph

Due June 2007

2007. Approx. 350 p. (Signals and Communication Technology) Hardcover

► * **€ (D) 112,30 | € (A) 115,45 | sFr 172,00**
ISBN 978-1-4020-6271-1

T. Sobh, **K. Elleithy**, **A. Mahmood**, **M. Karim**, University of Bridgeport, CT, USA (Eds.)

Innovative Algorithms and Techniques in Automation, Industrial Electronics and Telecommunications

Innovative Algorithms and Techniques in Automation, Industrial Electronics and Telecommunications includes a set of rigorously reviewed world-class manuscripts addressing and detailing state-of-the-art research projects in the areas of Industrial Electronics, Technology and Automation, Telecommunications and Networking. Innovative Algorithms and Techniques in Automation, Industrial Electronics and Telecommunications includes selected papers form the conference proceedings of the International Conference on Industrial Electronics, Technology and Automation (IETA 2006) and International Conference on Telecommunications and Networking (TeNe 06) which were part of the International Joint Conferences on Computer, Information and Systems Sciences and Engineering (CISSE 2006).

Features
► Provides a virtual forum for presentation and discussion of the state-of-the-art research on computers, information and systems sciences and engineering

From the contents
Areas of Interest: Advanced and Distributed Control Systems, Intelligent Control Systems (NN, FL, GA, etc.), Expert Systems, Man Machine Interaction, Data Fusion, Factory Automation, Robotics, Motion Control, Machine Vision, MEMS Sensors and Actuators, Sensor Fusion, Power Electronics, Intelligent Transportation.

Fields of interest
Circuits and Systems

Target groups
Professors, lecturers, instructors, teachers in colleges and universities, researchers/scientists (national research labs, industry research labs, industrial research and development centers, university research labs), graduate students, post-doctoral fellows and post-graduate students and advanced undergraduate students

Type of publication
Proceedings

Due June 2007

2007. Approx. 400 p. Hardcover

► * **€ (D) 96,25 | € (A) 98,95 | sFr 147,50**
ISBN 978-1-4020-6265-0

T. Sobh, University of Bridgeport, CT, USA (Ed.)

Innovations and Advanced Techniques in Computer and Information Sciences and Engineering

Innovations and Advanced Techniques in Computer and Information Sciences and Engineering includes a set of rigorously reviewed world-class manuscripts addressing and detailing state-of-the-art research projects in the areas of Computer Science, Computer Engineering and Information Sciences.
Innovations and Advanced Techniques in Computer and Information Sciences and Engineering includes selected papers form the conference proceedings of the International Conference on Systems, Computing Sciences and Software Engineering (SCSS 2006) which was part of the International Joint Conferences on Computer, Information and Systems Sciences and Engineering (CISSE 2006).

Features
► International Conference on Systems, Computing Sciences and Software Engineering 2006 provides a virtual forum for presentation and discussion of the state-of-the-art research on computers, information and systems sciences and engineering

From the contents
Areas of Interest: Grid Computing, Internet-based Computing Models, Resource Discovery, Programming Models and tools, e-Science and Virtual Instrumentation, Biometric Authentication, Computers for People of Special Needs, Human Computer Interaction.

Field of interest
Circuits and Systems

Target groups
Professors, lecturers, instructors, teachers in colleges and universities, researchers/scientists (national research labs, industry research labs, industrial research and development centers, university research labs), graduate students, post-doctoral fellows and post-graduate students and advanced undergraduate students

Type of publication
Proceedings

Due June 2007

2007. Approx. 400 p. Hardcover

► * **€ (D) 96,25 | € (A) 98,95 | sFr 147,50**
ISBN 978-1-4020-6267-4

S. Sutherland, Sutherland HDL, Inc., Tualatin, OR, USA; **D. Mills**, LCDM Engineering, Chandler, AZ, USA

Verilog and SystemVerilog Gotchas

101 Common Coding Errors and How to Avoid them

In programming, "Gotcha" is a well known term. A gotcha is a language feature, which, if misused, causes unexpected - and, in hardware design, potentially disastrous - behavior. The purpose of this book is to enable engineers to write better Verilog/SystemVerilog design and verification code, and to deliver digital designs to market more quickly.
This book shows over 100 common coding mistakes that can be made with the Verilog and SystemVerilog languages. Each example explains in detail the symptoms of the error, the languages rules that cover the error, and the correct coding style to avoid the error. The book helps digital design and verification engineers to recognize these common coding mistakes, and know how to avoid them. Many of these errors are very subtle, and can potentially cost hours or days of lost engineering time trying to find and debug the errors.

Features
► Includes over 100 common coding mistakes that can be made with Verilog and SystemVerilog
► Explains the symptoms of the error, the rules that cover the error, and how to avoid the error
► Addresses how to recognize and avoid coding errors withing Verilog and SystemVerilog

Contents
Introduction, What is a Gotcha?.- Declaration and Literal Number Gotchas.- Modeling Gotchas.- Operator Gotchas.- General Programming Gotchas.- Object Oriented and Multi-Threaded Programming Gotchas.- Randomization, Coverage and Assertion Gotchas.- Tool Compatibility Gotchas.

Fields of interest
Circuits and Systems; Computer-Aided Engineering (CAD, CAE) and Design; Computer Hardware

Target groups
Digital design engineers

Type of publication
Professional book

Due June 2007

2007. XXII, 218 p. Hardcover

► * **€ (D) 82,34 | € (A) 84,65 | sFr 126,50**
ISBN 978-0-387-71714-2

S. Takata, Waseda University, Tokyo, Japan; **Y. Umeda**, Osaka University, Japan (Eds.)

Advances in Life Cycle Engineering for Sustainable Manufacturing Businesses

Proceedings of the 14th CIRP Conference on Life Cycle Engineering, Waseda University, Tokyo, Japan, June 11th-13th, 2007

Life cycle engineering deals with technologies for shifting the industry from mass production and mass consumption paradigm to closed loop manufacturing paradigm, in which required functions are provided for customers with the minimum amount of production. This subject is discussed from the various aspects, such as life cycle design, design for environment, reduce/reuse/recycle, life cycle assessment, and sustainable business models. "Advances in Life Cycle Engineering for Sustainable Manufacturing Businesses" gathers together papers from the 14th International CIRP Life Cycle Engineering Conference. This conference is the longest running annual meeting in the field, in which papers are presented regarding developments of leading edge technologies, proposals of new concepts, and prominent industry case studies.

Features
► Only proceedings for the 14th International CIRP Life Cycle Engineering Conference

Fields of interest
Manufacturing, Machines, Tools; Engineering Economics, Organization, Logistics, Marketing; Production/Logistics

Target groups
Researchers and professionals

Type of publication
Proceedings

Due July 2007

2007. Approx. 494 p. 442 illus. With CD-ROM. Hardcover

► approx. * **€ (D) 171,15 | € (A) 175,95 | sFr 262,50**
ISBN 978-1-84628-934-7

V. Y. Ushakov, Tomsk Polytechnik University, Tomsk, Russia (Ed.)

Impulse Breakdown of Liquids

The book describes the main physical processes and phenomena in pulsed electric breakdown. The knowledge and the control of the electric breakdown of liquids is important not only for the insulation inside power systems but it is also used for the creation and information of high voltage and high current pulses. Such high-voltage micro- and nanosecond pulses find wide application in experimental physics, electro discharge technology, physics of dielectrics, radar detection and ranging, high-speed photography.
The nature of charge carriers, mechanism of formation and evolution of the gas phase, and their role in charge ignition (initiation) and development are considered. In particular, the spatio-temporal laws of propagation and parameters of charge channels are described in detail and the boundery conditions of the breakdown initiation are formulated.

Features
► The Pulse Breakdown of Liquids is widely used in dischargers and switches for the creation of short high voltage and high current pulse
► Comprehensive description of the important physical processes and phenomena of the electrical breakdown of liquids

Contents
Bahavior of Liquids in Strong Electric Fields.- Behavior of the Gas Phase Behaviour in a Strong Electric Fields.- Discharge Propagation in Short Gaps with a Quasi-Uniform Field.- Discharge Propagation in Gaps with a Non-uniform Field.- Statistical Investigations of an Electrical Breakdown.- Basis Laws Describing of the Impulse Electric Strength of Liquid.- Physical Discharge Initiation (Ignition) Mechanisms.- Mechanisms of Discharge Propagation and their Applicability Limits.

Fields of interest
Power Engineering; Electronics and Microelectronics, Instrumentation; Electromagnetism, Optics and Lasers

Target groups
Experts in high voltage technology and physics of dielectrics and electrical insulation

Type of publication
Monograph

Due July 2007

2007. Approx. 500 p. (Power Systems) Hardcover

► * **€ (D) 213,95 | € (A) 219,95 | sFr 328,00**
ISBN 978-3-540-72759-0

S. Vaidya, **L. C. Jain**, **H. Yoshida** (Eds.)

Advanced Computational Intelligence Paradigms in Healthcare - 2

Computational intelligence paradigms offer many advantages in maintaining and enhancing the field of healthcare. This volume presents seven chapters selected from the rapidly growing application areas of computational intelligence to healthcare systems, including intelligent synthetic characters, man-machine interface, menu generators, analysis of user acceptance, pictures archiving and communication systems.
This book will serve as a useful resource for the health professionals, professors, students, and the computer scientists, who are working on or interested in learning healthcare systems, to overview the current state of the art of diverse applications of computational intelligence to healthcare practice.

Features
► Latest research on computational intelligence paradigms in healthcare in intelligent agent environment

Contents
Introduction to Computational Intelligence in Healthcare.- Synthetic Characters in Health-related Applications.- Application of Artificial Intelligence for Weekly Dietary Menu Planning.- Evaluation of Healthcare IT Applications.- Current Perspective on Pictures Archiving and Communication System.- Inverse Electromagnetic Problem of the Heart.- Human Machine Interface for Healthcare and Rehabilitation.

Fields of interest
Appl.Mathematics/Computational Methods of Engineering; Artificial Intelligence (incl. Robotics)

Target groups
Researchers, engineers, graduate students in computational intelligence, evolving intelligent systems, healthcare

Type of publication
Monograph

Due July 2007

2007. Approx. 300 p. Also available online. (Studies in Computational Intelligence, Volume 65) Hardcover

► * **€ (D) 106,95 | € (A) 109,95 | sFr 164,00**
ISBN 978-3-540-72374-5

X. Wang, Jiaotong University, China; **Y. Song**, Xi'an Jiaotong Liverpool University, Suzhou, China; **M. Irving**, Brunel University, Uxbridge, UK

Modern Power Systems Analysis

The complexity of the nature of modern power systems is largely due to the growing size of the system through interconnection, which is the use of advanced technologies and the worldwide tendency of industry restructuring. The capability to effectively analyze such complex systems is fundamental to any activities in the operation, management and planning of power systems. This book not only offers a broad coverage of essential power system concepts but also features a complete and in-depth account of all the major latest developments, which include Power Flow Analysis in Market Environment; Power Flow Calculation of AC/DC Interconnected Systems and Power Flow Control and Calculation for Systems Having FACTS Devices and recent results in system stability.

Features
► Comprehensive coverage of essential power system analysis concepts, modelling, and approaches ► Details the most recent developments in power systems

Contents
Model of Electric Network and Its Solution.- Steady-State Analysis of Power Systems, Part 1.- Steady-State Analysis of Power Systems, Part 2.- Dynamics Modeling of Power System Components.- Transient Stability Analysis of Power System.- Small Disturbance Stability Analysis of Power Systems.

Fields of interest
Power Engineering; Electrical Power Generation and Transmission; Energy Economics

Target groups
Professional engineers, postgraduates, researchers

Type of publication
Monograph

Due October 2007

2007. Approx. 600 p. (Power Electronics and Power Systems) Hardcover

► approx. * **€ (D) 123,00 | € (A) 126,45 | sFr 188,50**
ISBN 978-0-387-72852-0

K. M. Wegrzyn-Wolska, **P. S. Szczepaniak** (Eds.)

Advances in Intelligent Web Mastering

Proceedings of the 5th Atlantic Web Intelligence Conference – WIC'2007, Fontainbleau, France, June 25 – 27, 2007

Mastering and effective exploration of the web environment needs new ideas, adaptation of known methods as well as application of sophisticated and robust technical implementations. Among new research directions present in relation to Web applications, a remarkable place is occupied by intelligent methods defining the topic of soft computing. This edited book includes reports from the front of diverse fields of the Web: application of artificial intelligence, design, information retrieval and interpretation, user profiling, security, engineering, etc. The material has been presented at the 5th Atlantic Web Intelligence Conference – AWIC'2007 held in Fontainbleau (France) and organized by Esigetel, Technical University of Lodz, and Polish Academy of Sciences.

Fields of interest
Appl.Mathematics/Computational Methods of Engineering; Artificial Intelligence (incl. Robotics)

Target groups
Researchers, engineers, graduate students in soft computing, and statistics

Type of publication
Monograph

Due June 2007

2007. Approx. 400 p. Also available online. (Advances in Soft Computing, Volume 43) Softcover

► * **€ (D) 160,45 | € (A) 164,95 | sFr 246,00**
ISBN 978-3-540-72574-9

A. Wiemann, San Carlos, CA, USA

Standardized Functional Verification

Standardized Functional Verification defines a uniform, standardizable methodology for verifying the logical behavior of integrated circuits (ICs), whether an I/O controller, a microprocessor, or a complete digital system. Verification engineers and managers at many levels responsible for IC development need this book to bring a single, standardsbased methodology to their R and D efforts, thereby cutting costs and improving results across the board.
The objective of functional verification is to demonstrate, with an acceptable level of confidence (the inverse of risk) that the manufactured IC will indeed work as intended. For example, before building the first prototype IC of a new microprocessor, engineers and managers must have confidence that the resulting IC will execute all possible valid software programs correctly. This is a highly nontrivial undertaking, the cost of which often exceeds that of designing of the IC itself.

Features
► Describes a standardizable framework for verification ► Defines a complete, precise nonmenclature for functional verification ► Outlines clear requirements for standardizable results that can be compared across disparate projects

From the contents
Introduction.- Functional Verification in a Nutshell.- Scope and Organization of This Book.- Analytical Foundation.- Principles of Constrained Random Verification.- Standard Framework.- Standard Variables.- Ranges of Variables.- Rules and Guidelines.

Fields of interest
Circuits and Systems; Computer-Aided Engineering (CAD, CAE) and Design; Electronic and Computer Engineering

Target groups
Verification engineers, project managers

Type of publication
Professional book

Due October 2007

2007. Approx. 300 p. Hardcover

► approx. * **€ (D) 106,95 | € (A) 109,95 | sFr 164,00**
ISBN 978-0-387-71732-6

J. Wu, **K. Ito**, **S. Tobimatsu**, **T. Nishida**, **H. Fukuyama** (Eds.)

Complex Medical Engineering

In the twenty-first century, applications in medicine and engineering must acquire greater safety and flexibility if they are to yield better products at higher efficiency. To this end, complex science and technology must be integrated in medicine and engineering. Complex medical engineering (CME) is a new field that merges medical science and technology, and includes biomedical robotics and biomechatronics, complex virtual technology in medicine, information and communication technology in medicine, complex technology in rehabilitation, cognitive neuroscience and technology, and complex bioinformatics. Experts from academia, industry, and government research laboratories who have pioneered CME ideas and technologies describe its concept and research approach and discuss related hardware and software, science and technology, and medicine and engineering. This book will be invaluable to scientists, researchers, and graduates in the emerging field of CME.

Fields of interest
Biomedical Engineering; Bioinformatics; Biomedicine general

Target groups
Scientists, researchers, and graduates in the emerging field of CME

Type of publication
Monograph

Available

2007. XII, 619 p. 274 illus., 7 in color. Hardcover

► * **€ (D) 128,35 | € (A) 131,95 | sFr 197,00**
ISBN 978-4-431-30961-1

S. Ylirisku, University of Art and Design, Helsinki, Finland; **J. Buur**, University of Southern Denmark, Sydals, Denmark

Designing with Video

Focusing the User-centred Design Process

Digital video for user-centred co-design is an emerging field of design, gaining increasing interest in both industry and academia. It merges the traditions of design ethnography, participatory design, interaction analysis, scenario-based design, and usability studies into an integrated approach, which values the designer's capacity to study and change the world creatively.
"Designing with Video: Focusing the User-Centred Design Process" covers the whole user-centred design project. The book illustrates in detail how digital video can be utilised throughout a design process, from the early user studies, through making sense of the video content and envisioning the future with video scenarios, to provoking change with video artefacts.

Features
► Only book to cover the whole user-centred design process using digital video

Contents
Video in design.- Studying what people do.- Making sense and editing videos.- Envisioning the future.- Provoking change.

Fields of interest
Engineering Design; Numerical and Computational Methods in Engineering; Computer-Aided Engineering (CAD, CAE) and Design

Target groups
Students, teachers, researchers, and professionals in design

Type of publication
Monograph

Due November 2007

2007. Approx. 250 p. 27 illus. With DVD. Hardcover

► approx. *** € (D) 96,25 | € (A) 98,95 | sFr 152,50**
ISBN 978-1-84628-960-6

S. Adamenko, Electrodynamics Laboratory, Kiev, Ukraine; **F. Selleri**, Università di Bari, Italy; **A. van der Merwe**, University of Denver, CO, USA (Eds.)

Controlled Nucleosynthesis

Breakthroughs in Experiment and Theory

This book ushers in a new era of experimental and theoretical investigations into collective processes, structure formation, and self-organization of nuclear matter. It reports the results of experiments wherein for the first time the nuclei constituting our world (those displayed in Mendeleev's table as well as the super-heavy ones) have been artificially created. Pioneering breakthroughs are described, achieved at the "Proton-21" Laboratory, Kiev, Ukraine in a variety of new physical and technological directions.
A detailed description of the main experiments, their analyses, and the interpretation of copious experimental data are given, along with the methodology governing key measurements and the processing algorithms of the data that empirically confirm the occurrence of macroscopic self-organizing processes leading to the nuclear transformations of various materials.

From the contents
1. Novel experimental approach to initiation of collective processes in nuclear systems. Initiated collapse and anomalous nucleosynthesis in condensed matter. 2. Experimental research of artificial nucleothynsesis products and processes. Methods, results and speculations. 3. Theory of matter evolution under the influence of concentrated energy fluxes. 4. Theoretical grounds of initiated collapse mechanism.

Fields of interest
Nuclear Physics, Heavy Ions, Hadrons; Condensed Matter and Material Sciences; Atoms and Molecules in Strong Fields, Plasma Physics

Target groups
University and research libraries; scientists and researchers, other professionals, lecturers in nuclear and atomic physics (theory and applications), physics of elemental particles, quantum electronics, statistical physics and thermodynamics, astrophysics and cosmology

Type of publication
Contributed volume

Due June 2007

2007. XVI, 784 p. (Fundamental Theories of Physics, Volume 156) Hardcover

► * **€ (D) 171,15 | € (A) 175,95 | sFr 262,50**
ISBN 978-1-4020-5873-8

M. Axelsson, Stockholm University, Stockholm, Sweden; **F. Ryde**, Royal Institute of Technology, Stockholm, Sweden (Eds.)

Gamma-ray Bursts – Prospects for GLAST

Stockholm Symposium on GRBs

All papers have been peer reviewed. The gamma-ray Large Area Space Telescope (GLAST) is an international mission dedicated to observations of high-energy gamma-rays and is planned to be launched by the end of 2007. These proceedings contain the discussions from a symposium on gamma-ray bursts (GRBs) held in Stockholm, Sweden on 1 September 2006.

Fields of interest
Astronomy; Astrophysics

Target groups
Researchers active in the fields of gamma-ray bursts and gamma-ray satellites; researchers in the general astrophysics community

Type of publication
Proceedings

AIP

Due July 2007

2007. Approx. 174 p. (AIP Conference Proceedings / Astronomy and Astrophysics, Volume 906) Softcover

► * **€ (D) 68,43 | € (A) 70,35 | sFr 105,00**
ISBN 978-0-7354-0413-7

F. Cardone, Consiglio Nazionale delle Ricerche, Roma, Italia; **R. Mignani**, Università „Roma Tre", Roma, Italia

Deformed Spacetime

Geometrizing Interactions in Four and Five Dimensions

This volume provides a detailed discussion of the mathematical aspects and the physical applications of a new geometrical structure of spacetime, based on a generalization ("deformation") of the usual Minkowski space, as supposed to be endowed with a metric whose coefficients depend on the energy. Such a formalism (Deformed Special Relativity, DSR) allows one to account for breakdown of local Lorentz invariance in the usual, special-relativistic meaning (however, Lorentz invariance is recovered in a generalized sense); to provide an effective geometrical description of the four fundamental interactions (electromagnetic, weak, strong and gravitational). Moreover, the four-dimensional energy-dependent space-time is just a manifestation of a larger, five-dimensional space in which energy plays the role of a fifth (non-compactified) dimension. This new five-dimensional scheme (Deformed Relativity in Five Dimensions, DR5) represents a true generalization of the usual Kaluza-Klein (KK) formalism.

Features
► Provides a unique and exhaustive exposition of the theory of deformed spacetime, developed in the last 15 years, both in four and five dimensions
► Provides a detailed discussion of the mathematical aspects of the formalism, including some new, unpublished results

Fields of interest
Mathematical Methods in Physics; Relativity and Cosmology; Physics beyond the Standard Model

Target groups
Graduate students and researchers in mathematics and physics; researchers and engineers working in nuclear and space industries, space agencies, government scientific (including military and defence) institutions

Type of publication
Monograph

Due June 2007

2007. XVIII, 528 p. (Fundamental Theories of Physics, Volume 157) Hardcover

► * **€ (D) 139,05 | € (A) 142,95 | sFr 213,00**
ISBN 978-1-4020-6282-7

S. A. Cetin, **I. Hikmet**, Dogus University, Istanbul, Turkey (Eds.)

Sixth International Conference of the Balkan Physical Union

The BPU-6 Conference belongs to a series of triennial general physics conferences organized under the auspices of the Balkan Physical Union (BPU). The previous conferences were organized in Thessaloniki, Greece (1991), Izmir, Turkey (1994), Cluj-Napoca, Romania (1997), Veliko Trnovo, Bulgaria (2000), and Vrnjacka Banja, Serbia and Montenegro (2003). The BPU conferences are usually attended by about 80 scientists, educators and engineers involved in research, education and applications of physics. The Conference is open to all scientists from the Balkan countries working in physics and related areas. Participants from outside the Balkans are also welcome.

Fields of interest
Measurement Science, Instrumentation; Statistical Physics; Astronomy, Astrophysics and Cosmology

Target groups
Researchers, academicians, educators

Type of publication
Proceedings

AIP

Due June 2007

Only available in print

2007. Approx. 910 p. With CD-ROM. (AIP Conference Proceedings, Volume 899) Hardcover

► * **€ (D) 293,34 | € (A) 301,57 | sFr 449,50**
ISBN 978-0-7354-0404-5

Also available as CD-ROM

► ** **€ (D) 145,72 | € (A) 146,94 | sFr 211,00**
ISBN 978-0-7354-0405-2

T. Chakraborty, University of Manitoba, Winnipeg, MB, Canada (Ed.)

Charge Migration in DNA

Perspectives from Physics, Chemistry and Biology

Charge migration through DNA has been the focus of considerable interest in recent years. A deeper understanding of the nature of charge transfer and transport along the double helix is important in fields as diverse as physics, chemistry and nanotechnology. It has also important implications in biology, in particular in DNA damage and repair. This book presents contributions from an international team of researchers active in this field. It contains a wide range of topics that includes the mathematical background of the quantum processes involved, the role of charge transfer in DNA radiation damage, a new approach to DNA sequencing, DNA photonics, and many others. This book should be of value to researchers in condensed matter physics, chemical physics, physical chemistry, and nanoscale sciences.

Features
► Deals with a new material for nanoelectronics, DNA ► Covers all aspects of charge and spin transport and migration in DNA ► Deals with DNA modified for bio-nanoelectronics ► Valuable reference work for researchers and text for graduate students

Contents
Preface.- Tight-binding models of charge migration in DNA.- Mechanism and absolute rates of charge transfer.- Variable-range charge hopping in DNA.- Atomistic models of DNA charge transfer.- Physics aspects of charge migration through DNA.- Vibronic mechanisms for charge transport and migration through DNA and single molecules.- The role of charge and spin migration in DNA radiation damage.- DNA based thermoelectric nanodevices: A theoretical prospect.- Transverse electronic signature of DNA for electronic sequencing.- DNA.

Fields of interest
Quantum Optics, Quantum Electronics, Nonlinear Optics; Nanotechnology; Biophysics/Biomedical Physics

Target groups
Scientists, engineers, and graduate students

Type of publication
Monograph

Due July 2007

2007. Approx. 300 p., 130 illus. (NanoScience and Technology) Hardcover

► * **€ (D) 139,05 | € (A) 142,95 | sFr 213,00**
ISBN 978-3-540-72493-3

A. Dobado, **F. J. Llanes-Estrada**, Universidad Complutense de Madrid, Spain; **V. Vento** (Eds.)

QNP 2006

The IVth International Conference on Quarks and Nuclear Physics, Madrid, Spain, 5-10 June 2006

The QNP series of international conferences on Quarks and Nuclear Physics is by now a well established and highly respected forum where the most recent developments in the field are discussed and communicated. QNP 2006 is the forth edition of this biennial meeting.
Selected and refereed original contributions of QNP 2006 have been published in The European Physical Journal A - Hadrons and Nuclei (EPJ A), while the present proceedings book, in addition to reprinting the articles published in EPJ A, further includes all other contributions selected and accepted by the organizing committee for publication and archiving.

Fields of interest
Elementary Particles and Nuclei

Target groups
Researchers; libraries

Type of publication
Proceedings

Due June 2007

2007. Approx. 600 p. Also available online. Hardcover

► * **€ (D) 181,85 | € (A) 186,95 | sFr 278,50**
ISBN 978-3-540-72515-2

E. Doktorov, Institute of Physics, Minsk, Belarus;
S. Leble, University of Technology, Gdansk, Poland

Dressing Methods in Mathematical Physics

This monograph systematically develops and considers the so-called "dressing method" for solving differential equations (both linear and nonlinear), a means to generate new non-trivial solutions for a given equation from the (perhaps trivial) solution of the same or related equation. The primary topics of the dressing method covered here are: the Moutard and Darboux transformations discovered in XIX century as applied to linear equations; the Bäcklund transformation in differential geometry of surfaces; the factorization method; and the Riemann-Hilbert problem in the form proposed by Shabat and Zakharov for soliton equations, plus its extension in terms of the d-bar formalism. Throughout, the text exploits the "linear experience" of presentation, with special attention given to the algebraic aspects of the main mathematical constructions and to practical rules of obtaining new solutions. Various linear equations of classical and quantum mechanics are solved by the Darboux and factorization methods.

Features
► Unifying concept for solving linear and nonlinear equations of mathematical physics ► Appeal to commonly available "linear experience" of potential readers ► Current status os research in the field

From the contents
Mathematical preliminaries. Factorization and dressing. Darboux transformations. Applications in linear problems. Dressing chain equations. 6The dressing in 2+1. Important Links. Dressing via the local Riemann-Hilbert problem. Dressing via the non-local RH problem.

Fields of interest
Mathematical Methods in Physics; Non-associative Rings and Algebras; Functions of a Complex Variable

Target groups
Specialists in mathematical physics, quantum mechanics, and applied mathematics; students of nonlinear wave phenomena, nonlinear field theory, and algebraic aspects of nonlinear equations

Type of publication
Monograph

Due June 2007

2007. XXIV, 386 p. (Mathematical Physics Studies, Volume 28) Hardcover

► approx. *** € (D) 106,95 | € (A) 109,95 | sFr 164,00**
ISBN 978-1-4020-6138-7

J. L. Feng, University of California, Irvine, CA, USA (Ed.)

SUSY06

The 14th International Conference on Supersymmetry and the Unification of Fundamental Interactions

The SUSY conferences are the premier annual international meetings devoted to new ideas and results in theoretical particle physics, experimental particle physics, and cosmology. SUSY06 took place just before the start of the Large Hadron Collider widely anticipated to yield profound new results, and provided a focus for the growing excitement in high energy physics through over 250 plenary and parallel talks.

Fields of interest
Particle Acceleration and Detection, Beam Physics; Astronomy, Astrophysics and Cosmology; Astronomy

Target groups
Professors, researchers, high energy physics laboratory scientists, postdoctoral researchers; graduate students working in the areas of theoretical particle physics, experimental physics, cosmology

Type of publication
Proceedings

AIP

Due July 2007

Only available in print

2007. Approx. 740 p. (AIP Conference Proceedings / High Energy Physics, Volume 903) Hardcover

► *** € (D) 242,25 | € (A) 249,04 | sFr 371,00**
ISBN 978-0-7354-0410-6

Y. Itikawa, Tokyo, Japan

Molecular Processes in Plasmas

Collisions of Charged Particles with Molecules

A variety of plasmas include molecules rather than only ions or atoms. Examples are ionospheres of the Earth and other planets, stellar atmospheres, gaseous discharges for use in various devices and processes, and fusion plasmas in the edge region. This book describes the role of molecules in those plasmas by showing elementary collision processes involving those molecules. All possible processes are presented both for electron and ion collisions with the molecules. On the basis of the accumulated knowledge in atomic and molecular physics, a compact but informative description is given for each process. Specific emphasis is placed on the feature which application people often tend to overlook.

Features
► Only book on the role of collision processes of molecules in plasmas.

Contents
1. Introduction.- 2. Plasmas Involving Molecules.- 3. Collision Cross Sections and Related Quantities.- 4. Molecule as a Collision Partner.- 5. Electron Collisions with Molecules.- 6. Ion Collisions with Molecules.- 7. Electron Collisions with Molecular Ions.- 8. Summary of the Roles of the Molecular Processes in Plasmas.- A. Order of Magnitude of Macroscopic Quantities.- B. Molecular Properties.- C. Atomic Units and Evaluation of the Born Cross Section.- D. Cross Section Sets for H2, N2, H2O, and CO2.- E. How to Find Cross Section Data.- F. Data Compilations for Electron-Molecule Collisions.- G. Data Compilations for Ion-Molecule Relations and Related Processes.

Fields of interest
Atoms and Molecules in Strong Fields, Plasma Physics; Astrophysics

Target groups
Scientists

Type of publication
Monograph

Due July 2007

2007. VIII, 212 p. 75 illus. (Springer Series on Atomic, Optical, and Plasma Physics, Volume 43) Hardcover

► *** € (D) 128,35 | € (A) 131,95 | sFr 197,00**
ISBN 978-3-540-72609-8

F. Jegerlehner, Humboldt-Universität zu Berlin

The Anomalous Magnetic Moment of the Muon

This book reviews the present state of knowledge of the anomalous magnetic moment a=(g-2)/2 of the muon. The muon anomalous magnetic moment amy is one of the most precisely measured quantities in elementary particle physics and provides one of the most stringent tests of relativistic quantum field theory as a fundamental theoretical framework. It allows for an extremely precise check of the standard model of elementary particles and of its limitations. Recent experiments at the Brookhaven National Laboratory now reach the unbelievable precision of 0.5 parts per million, improving the accuracy of previous g-2 experiments at CERN by a factor of 14. A major part of the book is devoted to the theory of the anomalous magnetic moment and to estimates of the theoretical uncertainties.

Features
► Up-to-date review

Contents
Part I Basic Concepts, Introduction to QED, g - 2 in a Nutshell, General Properties and Tools: Introduction.- Quantum Field Theory and Quantum Electrodynamics.- Lepton Magnetic Moments: Basics.- Part II A Detailed Account of the Theory, Outline of Concepts of the Experiment, Status and Perspectives: Electromagnetic and Weak Radiative Corrections.- Hadronic Effects.- The g - 2 Experiments.- Comparison between Theory and Experiment and Future Perspectives.- List of Acronyms.

Field of interest
Elementary Particles and Nuclei

Target groups
Scientists working in this field

Type of publication
Monograph

Due July 2007

2007. Approx. 430 p. 60 illus. (Springer Tracts in Modern Physics, Volume 226) Hardcover

► * **€ (D) 213,95 | € (A) 219,95 | sFr 328,00**
ISBN 978-3-540-72633-3

Landolt-Börnstein

Numerical Data and Functional Relationships in Science and Technology - New Series

Editor-in-chief: W. Martienssen

Group 3

Condensed Matter

Volume 34

Semiconductor Quantum Structures

Subvolume C

Optical Properties

E. Kasper, C. Klingshirn (Ed.)

Part 3

With contributions by: E. Kasper, N. Koshida, T. Pearsall, Y. Shiraki, G. Theodorou, N. Usami

Volume III/34 summarizes our current knowledge of semiconductor quantum structures. Subvolume 34A and 34B cover growth structuring and doping, and electronic transport, respectively. Subvolume 34C deals with the optical properties. Subvolume 34C1 offers the theoretical and experimental basis, as well as data on III-V, I-VII and IV-VI semiconductors. Data on II-VI compounds are covered in subvolume 34C2. The present subvolume 34C3 deals with the important class of elemental semiconductors of the group IV, focusing on silicon and germanium. While silicon is the backbone of the worldwide semiconductor industry, it is an indirect gap material, which seriously hampers its use for light emitting or even lasing devices. The subvolume discusses current ideas to overcome this problem by forming group IV quantum structures like Si/Ge superlattices, quantum wires and quantum dots, or nanocrystals.

Fields of interest
Optical and Electronic Materials

Target groups
Scientists and researchers in the fields of physics and chemistry; engineers and researchers in the semiconductor industry

Type of publication
Reference work

Due June 2007

2007. X, 136 p. Hardcover

► * **€ (D) 2129,30 | € (A) 2189,00 | sFr 3260,50**
ISBN 978-3-540-29647-8

B. Martinac, University of Queensland, QLD, Australia (Ed.)

Sensing with Ion Channels

All living cells are able to detect and translate environmental stimuli into biologically meaningful signals. Sensations of touch, hearing, sight, taste, smell or pain are essential for survival of any living being that has to rely on these mechanisms. The importance of sensory input for the existence of life thus justifies the effort made to understand its molecular origins. This book focuses on ion channels as key molecules enabling biological cells to sense and process physical and chemical stimuli which act upon the cells in their living environment. Its aim is to serve as a reference to ion channel specialists and as a source of new information to non specialists who want to learn about the structural and functional diversity of ion channels and their role in sensory physiology.

Features
► First book which is not exclusively focused on ion channels functioning in sensory mechanisms that are characteristic of animals and humans, but also describes the role of ion channels in signal transduction mechanisms found in microbial cells and plants ► Summarizes comprehensively the progress that has been made in studies of ion channels and their role in sensory physiology

Fields of interest
Biophysics/Biomedical Physics; Biochemistry, general; Cell Biology

Target groups
Institutes, libraries; scientists

Type of publication
Contributed volume

Due October 2007

2007. Approx. 310 p. 46 illus., 6 in color. (Springer Series in Biophysics, Volume 12) Hardcover

► * **€ (D) 149,75 | € (A) 153,95 | sFr 229,50**
ISBN 978-3-540-72683-8

P. Nickles, **K. Janulewicz**, Max Born Institute for Non-Linear Optics and Short Pulse Spectroscopy, Berlin, Germany (Eds.)

X-Ray Lasers 2006

Proceedings of the 10th International Conference, August 20-25, 2006, Berlin, Germany

The search for table-top and repetitive pump schemes during the last decade has been the driving force behind the spectacular advances demonstrated during the 10th International Conference on X-Ray Lasers, organized in 2006 in Berlin. Since 1986, international experts have gathered every two years at this established conference to discuss the progress in theory, experiment and application of plasma-based soft X-ray lasers. Traditionally, the conference sessions devoted to complementary and alternative sources of short wavelength radiation, such as high harmonics, XFEL or incoherent X-rays are organized so as to emphasize the role of X-ray laser research in relation to the other short wavelength sources. Grazing incidence pumping (GRIP) and seeding with high harmonics were the dominant topics of the conference. High repetition rate and portable X-ray lasers were reported to have been applied in metrology and photochemistry for the first time.

Fields of interest
Electromagnetism, Optics and Lasers; Atoms and Molecules in Strong Fields, Plasma Physics; Measurement Science, Instrumentation

Target groups
Researchers; libraries

Type of publication
Proceedings

Available

2007. 600 p. (Springer Proceedings in Physics, Volume 115) Hardcover

► * **€ (D) 213,95 | € (A) 219,95 | sFr 328,00**
ISBN 978-1-4020-6017-5

J. Nimmrichter, Bundesdenkmalamt, Vienna, Austria; **W. Kautek**, University of Vienna, Austria; **M. Schreiner**, Academy of Fine Arts, Vienna, Austria (Eds.)

Lasers in the Conservation of Artworks

LACONA VI Proceedings, Vienna/Austria, Sept. 21 - 25, 2005

Over the last decades, the use of lasers in artwork conservation has became an important tool for many conservators, scientists, architects and other experts, who are involved in the care of monuments and artefacts or applied laser technology. Professor Costas Fotakis first brought together restorers and scientists in 1995 to discuss the potential of lasers in art conservation. The field of "Lasers in the Conservation of Artworks" has since gained considerably in importance, and nowadays restorers and laser scientists work closely together to develop new applications. Furthermore a large number of national and international research projects have been carried out by conservator-restorers, architects and scientists. In the last 10 years, historical and artistically high-quality monuments (e.g. St. Stephens Cathedral in Vienna) have been cleaned or measured by laser, and this has established the laser in the spectra of tools that are useful in the practical realm of artworks.

Features
► Presents a fascinating and valuable application of laser technology

Contents
Introduction.- Metal.- Stone.- Inorganic Materials.- Organic Materials.- Analytical Techniques.- Scanning Techniques.- Safety and Miscellaneous.

Fields of interest
Laser Technology and Physics, Photonics; Physics and Applied Physics in Engineering

Target groups
Scientists, conservators, restorers, architects

Type of publication
Proceedings

Due August 2007

2007. Approx. 580 p. 670 illus. (Springer Proceedings in Physics, Volume 116) Hardcover

► * **€ (D) 213,95 | € (A) 219,95 | sFr 328,00**
ISBN 978-3-540-72129-1

C. N. Papanicolas, University of Athens, Greece; **A. M. Bernstein**, Massachusetts Institute of Technology, Cambridge, MA, USA (Eds.)

Shape of Hadrons

The workshop addressed the issue of the shape of hadrons by reviewing all relevant information both theoretical and experimental. The focus was on photo- and electro-excitation experiments on the nucleon, and on lattice and effective field theory, nucleon models, and phenomenological calculations.

Fields of interest
Nuclear Physics, Heavy Ions, Hadrons

Target groups
Theorists, experimentalists, particle and nuclear physicists who are interested in hadron structure and dynamics, and the understanding of QCD in the confinement regime

Type of publication
Proceedings

AIP

Due July 2007

Only available in print

2007. Approx. 305 p. (AIP Conference Proceedings / High Energy Physics, Volume 904) Hardcover

► * **€ (D) 105,50 | € (A) 108,46 | sFr 161,50**
ISBN 978-0-7354-0411-3

V. Petkov, Concordia University, Montréal, QC, Canada (Ed.)

Relativity and the Dimensionality of the World

In Minkowski spacetime it is merely one of the four dimensions, which means that it is entirely given like the other three spacial dimensions. If the temporal dimension were not given in its entirety and only one constantly changing moment of it existed, Minkowski spacetime would be reduced to the ordinary three-dimensional space.
But if the physical world, represented by Minkowski spacetime, is indeed four-dimensional with time being the forth dimension, then such a world is drastically different from its image based on our perceptions. Minkowski four-dimensional world is a block Universe, a frozen world in which nothing happens since all moments of time are given 'at once', which means that physical bodies are four-dimensional worldtubes containing the whole histories in time of the three-dimensional bodies of our everyday experience. The implications of a real Minkowski world for physics itself and especially for our world view are enormous.

Features
► A physical approach to understanding the dimensionality of the world and the nature of spacetime

Fields of interest
History of Physics; Philosophy of Science; Relativity and Cosmology

Target groups
Physicists and philosophers

Type of publication
Contributed volume

Due June 2007

2007. Approx. 310 p. (Fundamental Theories of Physics, Volume 153) Hardcover

► * **€ (D) 128,35 | € (A) 131,95 | sFr 197,00**
ISBN 978-1-4020-6317-6

M. Raffel, **C. Willert**, Goettingen; **S. Wereley**, West Lafayette, IN, USA; **J. Kompenhans**, Goettingen, Germany

Particle Image Velocimetry

A Practical Guide

This practical guide to PIV provides in a condensed form most of the information relevant for the planning, performance and understanding of experiments employing the PIV technique. In its second edition, the authors updated the chapters on the principles and included information on microscopic, high-speed and three component measurements as well as a description of advanced evaluation techniques. Steve Wereley with his knowledge completed the group of authors of the first edition and his participation as an author was the key for that update. But also the drastic increase in the range of possible applications has been taken into account as the chapter describing representative applications of the PIV technique has been expanded considerably.

Features
► Well established book ► Important reference and textbook for industry, university and students ► Covers all major applications of PIV ► New, completely updated and enlarged edition ► Very comprehensive source for PIV developers and users

Fields of interest
Thermodynamics; Measurement Science, Instrumentation; Physics and Applied Physics in Engineering

Target groups
Researchers and engineers in industry and at universities

Type of publication
Monograph

Due June 2007

2nd ed. 2007. Approx. 350 p. (Experimental Fluid Mechanics) Hardcover

► * **€ (D) 85,55 | € (A) 87,95 | sFr 131,00**
ISBN 978-3-540-72307-3

E. Roueff, Observatoire de Paris, Meudon, France (Ed.)

Atomic and Molecular Data and Their Applications

5th International Conference on Atomic and Molecular Data and Their Applications (ICAMDATA)

The International Conference on Atomic and Molecular Data and their Applications is a forum for interaction of Atomic and Molecular (AM) data producers and users and for information exchange on AM data needs and availability, AM data activities and databases worldwide. These include applications in magnetic and inertial fusion, industrial plasma processing, astrophysics, lighting, medical radiation physics, atmospheric physics, gaseous electronics, astrophysics, medical radiation physics, solar physics, and pollution.

Fields of interest
Atoms, Molecules, Clusters and Plasmas; Atoms and Molecules in Strong Fields, Plasma Physics; Astrophysics

Target groups
Researchers involved with computing or measuring atomic and molecular properties in collisions or spectra; those working to collect, evaluate and disseminate atomic and molecular data (as in data centers or for their own use); users of atomic and molecular data in applications such as inertial and magnetic confinement fusion, industrial plasma processing, medical radiation physics, lighting, astrophysics and atmospheric physics

Type of publication
Proceedings

AIP

Due June 2007

Only available in print

2007. Approx. 285 p. (AIP Conference Proceedings / Atomic, Molecular, Chemical Physics, Volume 901) Hardcover

► * **€ (D) 104,65 | € (A) 107,58 | sFr 160,50**
ISBN 978-0-7354-0407-6

B. G. Sidharth, **A. Alfonso-Faus**, **M. J. Fullana** (Eds.)

Frontiers of Fundamental Physics (FFP 8)

Eighth International Symposium

All papers were peer reviewed. The broad objective of Frontiers of Fundamental Physics has been to enable scholars working in different areas to meet and exchange ideas and status reports. In this edition, the foundations of physics have been discussed and the role of science and its connection with society. The idea of supplying a site to impel this debate among workers of science and all the society also appeared. Changing the way of doing science could contribute to improve the society in a fairer social system, a science for all the peoples of the world. Moreover, alternative ideas should be taken into account to help the progress of science. Topics discussed include: high energy physics including string theory and quantum gravity; astro-particle physics; theoretical physics; applied mathematics; astrophysics and cosmology; alternative theories.

Fields of interest
Mathematical Methods in Physics; Quantum Physics; Astronomy, Astrophysics and Cosmology

Target groups
University workers, professors, advanced students, workers of science and researchers in the fields of physics and science in general; all persons interested in science and the connection between science and society

Type of publication
Proceedings

AIP

Due July 2007

2007. Approx. 290 p. (AIP Conference Proceedings / Astronomy and Astrophysics, Volume 905) Hardcover

► * **€ (D) 106,30 | € (A) 109,29 | sFr 163,00**
ISBN 978-0-7354-0412-0

B. M. Smirnov, Russian Academy of Sciences, Moscow, Russia; **S. R. Berry**, University of Chicago, IL, USA

Phase Transitions of Simple Systems

This monograph develops a unified microscopic basis for phases and phase changes of bulk matter and small systems in terms of classical physics. The origins of such phase changes are derived from simple but physically relevant models of how transitions between rigid crystalline, glassy and fluid states occur, how phase equilibria arise, and how bulk properties evolve from those of small systems.

Features
► Describes the thermodynamics of ensembles of particles ► Explains phase transition in gaseous and liquid systems ► Both a reference book for researchers and a textbook for students

Contents
Introduction.- Part I. Thermodynamics of ensembles of classical particles.- Excitation in simple atomic ensembles.- Macroscopic ensembles of interacting particles.- Thermodynamics of dense gases and liquids.- Clusters with a short-range interaction between atoms.- Ensembles of classical particles with repulsion.- Part II. Configurational excitations and aggregate states of ensembles of classical particles.- Configurational excitation for an ensemble of interacting atoms.- Configurational excitation in clusters with pairwise atomic interactions.- Phase transitions in macroscopic systems of atoms.- Melting of clusters and bulk atomic ensembles.- Part III. Dynamics of configurational excitations in ensembles of classical particles.- Coexistence of cluster phases.- Glassy states of simple particle ensembles.- Transport of voids in nucleation processes

Fields of interest
Thermodynamics; Gases; Atoms, Molecules, Clusters and Plasmas

Target groups
Scientists, practitioners, graduate students

Type of publication
Monograph

Due August 2007

2007. Approx. 290 p. 80 illus. (Springer Series on Atomic, Optical, and Plasma Physics, Volume 42) Hardcover

► * **€ (D) 128,35 | € (A) 131,95 | sFr 197,00**
ISBN 978-3-540-71513-9

H. P. Stapp, University of California, Berkeley, CA, USA

Mindful Universe

Quantum Mechanics and the Participating Observer

The classical mechanistic idea of nature that prevailed in science during the eighteenth and nineteenth centuries was an essentially mindless conception: the physically described aspects of nature were asserted to be completely determined by prior physically described aspects alone, with our conscious experiences entering only passively. During the twentieth century the classical concepts were found to be inadequate. In the new theory, quantum mechanics, our conscious experiences enter into the dynamics in specified ways not fixed by the physically described aspects alone. Consequences of this radical change in our understanding of the connection between mind and brain are described.
► *Stapp's book is a bold and original attack on the problem of consciousness and free will based on the openings provided by the laws of quantum mechanics. This is a serious and interesting attack on a truly fundamental problem.* ► **Tony Leggett,** Physics Nobel Laureate, 2003

Features
► Accessible treatment of mind versus matter
► Pays attention to ethical consequences the mind versus matter argument

From the contents
Science and Human Values.- Human Knowledge as the Foundation Science.- Actions, Knowledge, and Information.- Nerve Terminals and the Need to Use Quantum Theory.- Templates for Action.- The Physical Effectiveness of Conscious Will.- Support from Contemporary Psychology.- Application to Neuropsychology.- Roger Penrose's Theory and Quantum Decoherence.- Faster-Than-Light Connections.- Whiteheadian Quantum Ontology.- An Interview.- Consciousness and the Anthropic Questions.- Impact of Quantum Mechanics on Human Values.

Fields of interest
Quantum Physics; Philosophy; Popular Science, general

Target groups
Scientists, interested lay persons; academic and other large bookstores

Type of publication
Popular science

Due June 2007

2007. XII, 198 p. 9 illus. (The Frontiers Collection) Hardcover

► * **€ (D) 32,05 | € (A) 32,95 | sFr 49,50**
ISBN 978-3-540-72413-1

F. van Leeuwen, Institute of Astronomy, Cambridge, UK

Hipparcos, the new Reduction of the Raw Data

This book provides overviews of the new reduction as well as on the use of the Hipparcos data in a variety of astrophysical implementations. A range of new results, like cluster distances and luminosity calibrations, is presented. The Hipparcos data provide a unique opportunity for the study of satellite dynamics. The orbit covered a wide range of altitudes, showing in detail the different torques acting on the satellite. One part of the book details these studies and their impact on the new reduction. It furthermore presents an extensive summary on a wide range of spacecraft and payload calibrations, which provide a detailed record of the conditions under which these unique Hipparcos data have been obtained. The book is accompanied by a DVD with the new catalogue and the underlying data.

Features
► Presents a complete new reduction of the unique Hipparcos data, with very significant improvements in the results ► Presents an overview of methods for analysing the Hipparcos data, not available anywhere else ► Presents a wide range of significant new scientific results derived from the new reduction ► Provides details on a unique dynamical study of the Hipparcos satellite

From the contents
Part I The Hipparcos mission. 1. The Hipparcos Mission. 2. Hipparcos Astrometry.- Part II Exploring the Hipparcos astrometric data. 3. Individual, Single Stars. 4. The Astrometric Data For Composite Images And Orbital Binaries. 5. Groups Of Single Stars. 6. Kinematics Of The Solar Neighbourhood.- Part III Hipparcos Photometric data. 7 The Photometric Data. 8. A Free-Floating Rigid Body In Space. 9. The Torques On Hipparcos As Observed Over The Mission. 10. Fully-Dynamic Attitude Fitting. 11. The Mission Timeline.

Fields of interest
Astronomy; Extraterrestrial Physics, Space Sciences; Mechanics

Target groups
Academic libraries; profesionals, researchers, lecturers

Type of publication
Monograph

Due August 2007

2007. Approx. 480 p. (Astrophysics and Space Science Library, Volume 350) Hardcover

► * **€ (D) 139,05 | € (A) 142,95 | sFr 213,00**
ISBN 978-1-4020-6341-1

A. S. Alexandrov, Loughborough University, Loughborough, UK (Ed.)

Polarons in Advanced Materials

Polarons in Advanced Materials will lead the reader from single-polaron problems to multi-polaron systems and finally to a description of many interesting phenomena in high-temperature superconductors, ferromagnetic oxides, conducting polymers and molecular nanowires. The book divides naturally into three parts. Part I introduces a single polaron and describes recent achievements in analytical and numerical studies of polaron properties in different e-ph models. Part II describes multi-polaron physics, and Part III describes many key physical properties of high-temperature superconductors, colossal magnetoresistance oxides, conducting polymers and molecular nanowires, which were understood with polarons and bipolarons.
The book is written in the form of self-consistent reviews authored by well-established researchers actively working in the field and will benefit scientists and postgraduate students with a background in condensed matter physics and materials sciences.

Features
► A contemporary 'encyclopedia' of polarons
► Appropriate for graduate courses on condensed matter theory, theory of superconductivity, and advanced quantum mechanics

From the contents
Introduction: Polarons in Advanced Materials. Part 1: Large and Small Polarons. Part 2: Bipolarons in Multi-Polaron Systems. Part 3: Strongly Correlated Polarons. Numerical Solution of the Holstein Polaron Problem. Part 4: Polarons in Contemporary Materials. Index.

Fields of interest
Condensed Matter and Material Sciences; Materials Science

Target groups
Researchers and scientists; senior undergraduate and graduate students

Type of publication
Monograph

Due June 2007

2007. XIV, 590 p. (Springer Series in Materials Science, Volume 103) Hardcover

► approx. *** € (D) 160,45 | € (A) 164,95 | sFr 246,00**
ISBN 978-1-4020-6347-3

M. Epstein, University of Calgary, AB, Canada; **M. Elzanowski**, Portland State University, Portland, OR, USA

Material Inhomogeneities and their Evolution

A Geometric Approach

Features
► Concise and understandable book about material inhomogeneities and their evolution
► Accessible to applied mathematicians, physicists and engineers who have an interest in materials inhomgeneities

Contents
Part I Inhomogeneity in Continuum Mechanics.- An overview of inhomogeneity theory.- Uniformity of second-grade materials.- Uniformity of Cosserat media.- Functionally graded bodies.- Part II Material evolution.- On energy, Cauchy stress and Eshelby stress.- An overview of the theory of material evolution.- Second-grade evolution.- Part III Mathematical Foundations.- Basic geometric concepts.- Theory of connections.- Bundles of linear frames.- Connections of higher order.- A Groupoids.

Fields of interest
Continuum Mechanics and Mechanics of Materials; Appl.Mathematics/Computational Methods of Engineering; Applications of Mathematics

Target groups
Advanced graduate students and researchers in continuum mechanics and applied mathematics

Type of publication
Monograph

Due June 2007

2007. Approx. 280 p. (Interaction of Mechanics and Mathematics) Softcover

► *** € (D) 64,15 | € (A) 65,95 | sFr 98,50**
ISBN 978-3-540-72372-1

T. Fukuda, **V. I. Chani**, Tohoku University, Sendai, Japan (Eds.)

Shaped Crystals

Growth by Micro-Pulling-Down Technique

This volume presents an overview of the growth of shaped crystals (oxides, fluorides, etc.) by the micro-pulling-down technique. Both melt and solution (flux) growth are considered. The advantages and disadvantages of the method are discussed in detail and compared with related crystal-growth processes. The authors attempt to give a practical introduction to this technique, thereby also explaining how its application can help to solve problems commonly encountered in other melt-growth methods. Currently the micro-pulling-down technique is applicable to the growth of crystals up to 1 m long with cross-section ranging from 0.05 to 10 mm. This book represents a valuable resource for researchers, industrial engineers, teachers, and students involved in materials science, crystal growth, physics, chemistry, optics and electronics.

Features
► Presents a new tecchnique of growing small shaped crystals ► Integrates the basic physical and chemical aspects with the manufacturing technology ► Useful to material scientists and practicioners

Contents
Introduction.- Micro-Pulling-Down (μ-PD) and Related Growth Methods.- Basics of μ-PD Method.- Equipment Configuration.- Growth Phenomena and Crystal Chemistry.- Modification and Evolution of μ-PD Method.- Growth and Characterization of Oxide μ-PD Crystals I.- Growth and Characterization of Oxide μ-PD Crystals II.- Growth and Characterization of Non-Oxide μ-PD Crystals

Fields of interest
Optical and Electronic Materials; Condensed Matter and Material Sciences; Physical Chemistry

Target groups
Scientists, engineers, graduate students

Type of publication
Monograph

Due June 2007

2007. XVI, 342 p. 274 illus. (Advances in Materials Research, Volume 8) Hardcover

► *** € (D) 139,05 | € (A) 142,95 | sFr 213,00**
ISBN 978-3-540-71294-7

S. N. Karmakar, **S. K. Maiti**, **C. Jayeeta**, Saha Institute of Nuclear Physics, Calcutta, India (Eds.)

Physics of Zero- and One-Dimensional Nanoscopic Systems

In recent years submicron and nanoscale systems have featured strongly on the research agenda due to the technological progress and new physics that have emerged from studies of ultra-small systems. A fundamental understanding of basic physical phenomena on the mesoscopic and nanoscopic scales is required to exploit the technological potential offered by these exotic materials. The present book contains review-like chapters by some of the leading experts in the field, covering topics such as the Kondo effect, electron transport, disorder and quantum coherence with electron-electron interaction, persistent current, thermoelectric phenomena, etc. in quantum dots, quantum wires, carbon nanotubes and more. This book will be valuable to researchers and students in condensed matter physics.

Features
► Overview of exciting field ► Leading experts cover their special fields

Contents
From Dilute Magnetic Alloys to Confined Nanostructures: Evolution of the Kondo Effect.- The Two Channel Kondo Effect in Quantum Dots.- Kondo Physics in Artificial Molecules.- Low Temperature Decoherence and Relaxation in Charge Josephson Junction Qubits.- Low-Energy Physical Properties of Edge States in Nanographite Systems.- Coherence and Interactions in Diffusive Systems.- Transport and Persistent Currents in Mesoscopic Rings: Interplay Between Electron-Electron Interaction and Disorder.- Electron Transport Throught Mesoscopic Closed Loops and Molecular Bridges.- 2D Disordered Electonic System in the Presence of Strong Magnetic Field.

Fields of interest
Nanotechnology; Quantum Physics; Solid State Physics and Spectroscopy

Target groups
Scientists and advanced students

Type of publication
Monograph

Due July 2007

2007. Approx. 340 p. 250 illus. (Springer Series in Solid-State Sciences, Volume 156) Hardcover

► * **€ (D) 139,05 | € (A) 142,95 | sFr 213,00**
ISBN 978-3-540-72631-9

D. C. Lagoudas, Texas A & M University, College Station, TX, USA (Ed.)

Introduction to Modeling and Engineering Applications of Shape Memory Alloys

Shape memory alloys or (SMA's) are metals that exhibit shape memory properties, Shape memory alloys can recover from large amounts of bending and deformations as well as small amounts of strain. If these deformations are within recoverable ranges, the process of deformation and shape recovery can be repeated millions of times. The applications for shape memory alloys are quite extensive; they are used in the medical industry to create stents, in the dental industry to create dental and orthodontic archwires, and in the aerospace industry to create fluid fittings. The aim and scope of this book is to provide a working knowledge of the modeling and engineering applications of shape memory alloys.

Features
► Provides a rigorous introduction to continuum mechanics and continuum thermodynamics as they relate to the development of SMA modeling. These concepts can be generalized to the constitutive modeling of many other conventional, active and multifunctional materials ► Presents a unified approach to the constitutive modeling of SMAs that includes modeling of magnetic and high temperature SMAs

Contents
Introduction to shape memory.- Thermomechanical characterization of shape memory alloy materials.- Thermomechanical constitutive model for SMAs.- Dynamic response of SMAs.- Elastoplastic behavior- transformation-induced plasticity.- Extended SMA modeling.- Modeling of magnetic SMAs.- Appendix A.- Appendix B.

Fields of interest
Materials Science; Engineering Thermodynamics, Transport Phenomena; Continuum Mechanics and Mechanics of Materials

Target groups
Researchers and engineers working in the area of smart materials and structures

Type of publication
Professional book

Due November 2007

2007. Approx. 475 p. Hardcover

► approx. * **€ (D) 106,95 | € (A) 109,95 | sFr 164,00**
ISBN 978-0-387-47684-1

J. E. Morris, Portland State University, Portland, OR, USA; **D. Mallik**, Intel Corporation, Chandler, AZ, USA (Eds.)

Nanopackaging

Nanotechnologies and Electronics Packaging

Nanotechnologies are being applied to microelectronics packaging, primarily in the applications of nanoparticle nanocomposites, or in the exploitation of the superior mechanical, electrical, or thermal properties of carbon nanotubes. Composite materials are studied for high-k dielectrics, resistors and inductors, electrically conductive adhesives, conductive "inks," underfill fillers, and solder enhancement. "Nanopackaging" is intended for industrial and academic researchers, industrial electronics packaging engineers who need to keep abreast of their field, and others with interests in nanotechnology. It will survey the application of nanotechnologies to electronics packaging, as represented by current research across the field.

Features
► Offers a comprehensive discussion of Nanoparticles and Carbon Nanotubes, and how and why they are rapidly becoming materials options for electronics packaging ► Discusses the importance of computer modeling in nanopackaging and offers suggestions for implementation

From the contents
Nanotechnologies in Nanopackaging.- Computer Modeling.- Molecular Modeling.- Delamination Modeling.- Nanoparticle Properties.- Nanoparticle Fabrication.- High-K Dielectric Composites.- Nanocomposite Resistors.- Nanocomposite Inductors.

Fields of interest
Nanotechnology; Electrochemistry; Electronics and Microelectronics, Instrumentation

Target groups
Industrial and academic researchers; industrial electronics packaging engineers; and those engaged in nanotechnology applications

Type of publication
Professional book

Due November 2007

2007. Approx. 450 p. Hardcover

► approx. * **€ (D) 114,54 | € (A) 117,76 | sFr 175,50**
ISBN 978-0-387-47325-3

R. J. Read, University of Cambridge, UK;
J. L. Sussman, Weizmann Institute of Science, Rehovot, Israel (Eds.)

Evolving Methods for Macromolecular Crystallography

The Structural Path to the Understanding of the Mechanisms of Action of CBRN Agents

X-ray crystallography is the pre-eminent technique for visualizing the structures of macromolecules at atomic resolution. These structures are central to understanding the detailed mechanisms of biological processes, and to discovering novel therapeutics using a structure-based approach. As yet, structures are known for only a small fraction of the proteins encoded by human and pathogenic genomes. To counter the myriad modern threats of disease, there is an urgent need to determine the structures of the thousands of proteins whose structure and function remain unknown. This volume draws on the expertise of leaders in the field of macromolecular crystallography to illuminate the dramatic developments that are accelerating progress in structural biology. Their contributions span the range of techniques from crystallization through data collection, structure solution and analysis, and show how modern high-throughput methods are contributing to a deeper understanding of medical problems.

Features
► Arises from the renowned Erice Schools on Macromolecular Crystallography ► Chapters by leading experts in modern methods of macromolecular crystallography

Fields of interest
Crystallography; Biophysics/Biomedical Physics; Bioinformatics

Target groups
Crystallographers, graduate students, post-doctoral fellows

Type of publication
Proceedings

Due July 2007

2007. X, 160 p. (NATO Science Series II: Mathematics, Physics and Chemistry, Volume 245) Hardcover

► * **€ (D) 128,35 | € (A) 131,95 | sFr 197,00**
ISBN 978-1-4020-6314-5

Also available as softcover

► * **€ (D) 53,45 | € (A) 54,95 | sFr 82,00**
ISBN 978-1-4020-6315-2

J. Sólyom, Research Institute for Solid State Physics, Budapest, Hungary

Fundamentals of the Physics of Solids

Structure and Dynamics

Translated by: A. Piróth

This book is the first of a three-volume series written by the same author. It aims to deliver a comprehensive and self-contained account of the fundamentals of the physics of solids. In the presentation of the properties and experimentally observed phenomena together with the basic concepts and theoretical methods, it goes far beyond most classic texts. The essential features of various experimental techniques are also explained.
After presenting some features of atoms as building blocks of solids, and how atoms bind together to form solids, the first volume discusses the structural aspects of solids, lattice vibrations, and finally, magnetism due to localized magnetic moments.
The text provides material for upper-level undergraduate and graduate courses. It will also be a valuable reference for researchers in the field of condensed matter physics.

Features
► Complete and comprehensive work
► No competition

From the contents
Introduction.- The structure of Condensed Matter.- The Building Blocks of Solids.- Bonding in Solids.- Symmetries of Crystals.- Consequences of Symmetries.- The Structure of Crystals.- Methods of Structure Determination.- The Structure of Real Crystals.

Field of interest
Condensed Matter and Material Sciences

Target groups
Students

Type of publication
Graduate/Advanced undergraduate textbook

Due July 2007

2007. Approx. 600 p. 150 illus. Hardcover

► * **€ (D) 139,05 | € (A) 142,95 | sFr 213,00**
ISBN 978-3-540-72599-2

L. Vitos, Royal Institute of Technology, Stockholm, Sweden

Computational Quantum Mechanics for Materials Engineers

The EMTO Method and Applications

Traditionally, new materials have been developed by empirically correlating their chemical composition, and the manufacturing processes used to form them, with their properties. Until recently, metallurgists have not used quantum theory for practical purposes. However, the development of modern density functional methods means that today, computational quantum mechanics can help engineers to identify and develop novel materials. "Computational Quantum Mechanics for Materials Engineers" describes new approaches to the modelling of disordered alloys that combine the most efficient quantum-level theories of random alloys with the most sophisticated numerical techniques to establish a theoretical insight into the electronic structure of complex materials such as stainless steels, Hume-Rothery alloys and silicates. The practical success of these approaches to applications in all of these areas are covered in detail.

Features
► Only book to cover the most recent developments in applied quantum theory and their use in modelling materials properties ► First book to cover the applications of these techniques in materials engineering

Contents
Basics of Electronic Structure Calculations.- Exact Muffin-Tin Orbitals Method.- Slope Matrix.- Full Charge Density Technique.- The EMTO-CPA Method.- Ground State Properties.- Ordered Solids.- Binary Alloys.- Iron-chromium-nickel Alloys.

Fields of interest
Characterization and Evaluation Materials

Target groups
Researchers in materials science and engineering; researchers in solid-state physics and applied quantum mechanics

Type of publication
Monograph

Due October 2007

2007. Approx. 250 p. 92 illus. (Engineering Materials and Processes) Hardcover

► approx. * **€ (D) 128,35 | € (A) 131,95 | sFr 197,00**
ISBN 978-1-84628-950-7

G. S. Was, University of Michigan, Ann Arbor, MI, USA

Fundamentals of Radiation Materials Science

Metals and Alloys

Radiation Materials Science teaches readers the fundamentals of the effects of radiation on metals and alloys. When energetic particles strike a solid, numerous processes occur that can change the physical and mechanical properties of the material. Metals and alloys represent an important class of materials that, by virtue of their use in nuclear reactor cores, are subject to intense radiation fields. Radiation causes metals and alloys to swell, distort, blister, harden, soften and deform. This textbook and reference covers the basics of particle-atom interaction for a range of particle types, the amount and spatial extent of the resulting radiation damage, the physical effects of irradiation and the changes in mechanical behavior of irradiated metals and alloys.

Features
► First comprehensive textbook on the subject

Contents
Introduction.- The Radiation Damage Event.- The Displacement of Atoms.- Irradiation Induced Effects.- Irradiation Induced Bubbles and Voids.- Irradiation Induced Segregation and Precipitation.- Irradiation Hardening.- Fracture and Embrittlement.- Irradiation Creep and Growth.

Fields of interest
Materials Science; Nuclear Engineering; Nuclear Physics, Heavy Ions, Hadrons

Target groups
Advanced undergraduate and beginning graduate students in nuclear engineering, radiation physics, materials sciences and nuclear physics

Type of publication
Graduate/Advanced undergraduate textbook

Due June 2007

2007. Approx. 860 p. Hardcover

► * **€ (D) 106,95 | € (A) 109,95 | sFr 164,00**
ISBN 978-3-540-49471-3

A. Zvelindovsky, University of Central Lancashire, Preston, UK (Ed.)

Nanostructured Soft Matter

Experiments, Theory, and Perspectives

This book provides an interdisciplinary overview of a new and broad class of materials under the unifying name Nanostructured Soft Matter. It covers materials ranging from short amphiphilic molecules to block copolymers, proteins, colloids and their composites, microemulsions and bio-inspired systems such as vesicles. The book considers several fundamental questions, including: how self-assembly of various soft materials with internal structure at nanoscale can be understood, controlled and in future used in the newly emerging field of soft nanotechnology. The book offers a view on the subject from different perspectives, combining modern experimental approaches from physical chemistry and physics with various theoretical techniques from physics, mathematics and the most advanced computer modelling. All chapters are written by leading international experts, bringing together experience from Canada, Germany, Great Britain, Japan, The Netherlands, Russia, Singapore, Spain and the USA.

Features
► An interdisciplinary view on a new and broad class of materials under the unified name of "nanostructured soft matter" ► Offers the first description of the freeware SUSHI

From the contents
Preface. List of Contributors.- Part I: Experimental Advances.- Part II: Mathematical and Theoretical Approaches.- Part III: Simulation.- Index.

Fields of interest
Soft Matter, Complex Fluids; Nanotechnology; Polymer Sciences

Target groups
Active researchers, undergraduate and graduate students

Type of publication
Monograph

Due June 2007

2007. XIV, 620 p. (NanoScience and Technology) Hardcover

► * **€ (D) 160,45 | € (A) 164,95 | sFr 246,00**
ISBN 978-1-4020-6329-9

S. van der Zwaag, Technical University, Delft, The Netherlands (Ed.)

Self Healing Materials

An Alternative Approach to 20 Centuries of Materials Science

This book, the first in this new field of materials science, aims to present a coherent picture of the design principles and resulting properties of self healing materials over all material classes, and to offset them to the current design principles for structural materials with improved mechanical properties. Where appropriate a comparison to natural materials is made. As such it will be a landmark and a reference work in the coming years.The book consists of a number of invited contributions from leading experts in the field. While each chapter describes a separate approach or a different aspect of self healing materials, the common structure of each chapter creates a coherent and consistent picture of this emerging and challenging field. Hence the book is not only a valuable asset for professional materials scientists but it is also suitable as a text book for courses at MSc level.

Features
► First book to provide an introduction to the field of Self-Healing Materials ► The book covers the interdisciplinary nature of the subject with contributions from top people in the field

From the contents
Foreword; M.F. Ashby. 1: Introduction to Self Healing Materials; S. van der Zwaag. 2: Self Healing Polymers using Encapsulation; S.R. White. 3: Self Healing Polymers using reversible bonds; F. Wudl. 4: Self Healing Polymers using reversible bonds; F. Jones. 5: Ionomers as self healing polymers; R. Varley. 6: Self Healing Composites; I. Bond. 7: Self healing in polymer coatings; van Benthem.

Fields of interest
Soft Matter, Complex Fluids; Continuum Mechanics and Mechanics of Materials; Quality Control, Reliability, Safety and Risk

Target groups
Professional materials scientists; courses at MSc level

Type of publication
Contributed volume

Due July 2007

2007. IV, 30 p. With CD-ROM. (Springer Series in Materials Science, Volume 100) Hardcover

► * **€ (D) 139,05 | € (A) 142,95 | sFr 213,00**
ISBN 978-1-4020-6249-0

E. Chuvieco, University of Alcalá, Spain (Ed.)

Earth Observation of Global Change

Global Change is increasingly considered a critical topic in environmental research. Remote sensing methods provide a relevant tool to monitor global variables, since they provide a systematic coverage of the Earth Surface, at different spatial, spectral and temporal resolutions. The data provided by Earth Observation Satellites are being operationally used for monitoring atmospheric conditions, ice sheets and glaciar movements, vegetation dynamism and land use changes, deforestation and desertification processes, as well as water conditions. The book covers an analysis of the leading missions in global Earth observation, and then reviews the main fields in which remote sensing methods are providing vital data for global change studies.

Features
► State of the Art review of contribution of Earth Observation Data to monitoring Global Change in a wide range of disciplines ► Covers a wide range: hyperspectral sensors, optical, radar, lidar ► CD-ROM included with a sample of images used in the chapter descriptions, as well as power point presentations to help university professors and secondary school teachers to present the issues covered in the book

Fields of interest
Remote Sensing/Photogrammetry; Geographical Information Systems/Cartography; Meteorology/Climatology

Target groups
Academic libraries, practitioners, professionals, scientists, researchers, lecturers, tutors, graduates, undergraduates

Type of publication
Monograph

Due October 2007

2007. Approx. 300 p. 40 illus. With CD-ROM. Hardcover

► approx. *** € (D) 106,95 | € (A) 109,95 | sFr 164,00**
ISBN 978-1-4020-6357-2

K. G. Dean, **J. Dehn**, University of Alaska, Fairbanks, AK, USA

Satellite Monitoring of Volcanoes

Spaceborne Images of the North Pacific

Volcanoes have always been a fascinating subject to scientists and a favourite topic for the general public. This book is a visual learning experience as recorded on satellite images of volcanic eruptions and a manual describing how it is used for operational satellite monitoring. The atlas will show examples of the largest eruptions worldwide and detailed observations from the northern Pacific "ring of fire". Daily volcano monitoring and analysis in North Pacific Ocean region have resulted in one of the most detailed collections of satellite images in the world, detailing state-of-the-art techniques for real-time volcano monitoring and analysis using space-borne data. Detailed discussion is provided on satellite data acquisition and analysis, ash-dispersion models, wind field data, case studies, hazard mitigation, transmitting warnings and discussion of global impacts of eruptions.

Features
► Help scientists, disaster managers, and practitioners learn how to interpret the type of activity they observe ► Fills a tremendous gap in the science of volcano remote sensing ► Include CD-ROM containing all the images and an associated website which will be regularly updated, showing results from new and current eruptions ► Provides state-of-the-art techniques for real-time volcano monitoring

Fields of interest
Geophysics/Geodesy; Geology; Mineralogy

Target groups
Scientists, researchers and graduates in the fields of volcanology, remote sensing, Hazard Mitigation and management as well as geologists and geophysicists

Type of publication
Monograph

PRAXIS

Due August 2007

Jointly published with Praxis Publishing, UK

2007. Approx. 500 p. 200 illus. With CD-ROM. (Springer Praxis Books / Geophysical Sciences) Hardcover

► * **€ (D) 90,90 | € (A) 93,45 | sFr 139,50**
ISBN 978-3-540-24125-6

S. I. Fabrikant, Geography University of Zürich, Switzerland; **M. Wachowicz**, Wageningen University and Research, The Netherlands (Eds.)

The European Information Society

Leading the Way with Geo-information

This book presents a state-of-the-art overview of ongoing GIScience research that has been presented at the 10th Conference of the Association of Geographic Information Laboratories for Europe (AGILE), held in Aalborg, Denmark. Included are twenty-seven fully peer-reviewed papers not only covering basic GIScience research themes such as, interoperability, ontology, data representation, usability, and data quality, but also ongoing research on technological advancements (i.e., spatial web services and spatial data infrastructures), as well as applied research on environmental modeling and management, including mobile and collaborative applications.

Contents
GI Education in Europe.- Advances in Applied GI Research.- Advanced GI Technologies.- State-of-the-Art in GI Basic Research.

Fields of interest
Geographical Information Systems/Cartography; Computer Applications in Geosciences

Target groups
Academic libraries with a collection of GIS, spatial information engineers

Type of publication
Monograph

Due June 2007

2007. Approx. 500 p. (Lecture Notes in Geoinformation and Cartography) Hardcover

► approx. *** € (D) 160,45 | € (A) 164,95 | sFr 246,00**
ISBN 978-3-540-72384-4

N. Mimura, Ibaraki University, Hitachi, Japan (Ed.)

Asian-Pacific Coasts and Their Management: States of Environment

The Asia and Pacific region is home to the world's largest region of coral reefs and mangroves. It accommodates two-thirds of the world's human population and its economic activities have the highest growth rate in the world. Ongoing degradation of the environment resulting from deforestation, desertification, and over-harvesting are becoming a matter of great concern, as floods and droughts occur as a result of this degradation. The Asia-Pacific also forms part of the 'Pacific Rim of Fire' and is, therefore, vulnerable to earthquakes and tsunamis, as the world is aware of after the Sumatra earthquake tsunami on 26 December 2004. Threats of global environmental change such as climate change and sea-level rise will superpose on such problems. Therefore, appropriate policies and measures are needed for the coastal management, both for the local and global trends.

Features
► Provides state-of-the-art understanding of the state of the environment ► Structural approach consisting of drivers, state, and responses to the coastal environmental changes ► Describes both local and global trends including climate change and sea-level rise ► Provides an objective basis of the perspective using the latest data

From the contents
1. Introduction (Mimura and Yamamura).- 2. Drivers for changes of coastal zone (Yanagi and Cho).- 3. Environment problems in the coastal zone (Sekiguchi and Sanit).- 4. Policy for the conservation and sustainable development of coastal zone (Hirai, Yamao and Shikida).- 5. Regional conditions (Saito and Alino).- 6. Conclusion (Mimura).

Fields of interest
Oceanography; Environmental Management; Regional Science

Target groups
Researchers of coastal science, undergraduate and graduate students of coastal science, engineering and management, policy makers and coastal managers, coastal developers, fishery industry

Type of publication
Monograph

Due October 2007

Previously announced in Springer News 12/2005

2007. Approx. 250 p. (Coastal Systems and Continental Margins, Volume 11) Hardcover

► * **€ (D) 139,05 | € (A) 142,95 | sFr 213,00**
ISBN 978-1-4020-3626-2

K. Stanilov, University of Cincinnati, OH, USA (Ed.)

The Post-Socialist City

Urban Form and Space Transformations in Central and Eastern Europe after Socialism

In the large body of literature produced during the last fifteen years on the transformation of Eastern European societies after the fall of communism, studies investigating changes in urban form and structure have been quite rare. Yet a profound reorganization of the manner in which urban space is appropriated has taken place, impacting the life of over 200 million urban residents in the region. The patterns of spatial organization, which have been established during this fairly limited but critical timeframe, are likely to set the direction of future urban development in CEE cities for a long time.
This book focuses on the spatial transformations in the most dynamically evolving urban areas of post-socialist Central and Eastern Europe, linking the restructuring of the built environment with the underlying processes and forces of socio-economic reforms.

Features
► Focus on the evolution of urban form in CEE cities after socialism, an under-explored subject ► Wide geographic coverage

From the contents
Introduction.- Part 1: Regional Development Trends.- Part 2: Non-Residential Development.- Part 3: Residential Development.- Part 4: The Evolution Of Public Space.- Part 5: Public Policy And Urban Development.- Part 6: Planning The Post-Socialist City.

Fields of interest
Landscape/Regional and Urban Planning; Human Geography; Urbanism

Target groups
Geographers, policy-makers, urban planners and architects

Type of publication
Contributed volume

Due July 2007

2007. Approx. 410 p. (GeoJournal Library, Volume 92) Hardcover

► * **€ (D) 144,40 | € (A) 148,45 | sFr 221,50**
ISBN 978-1-4020-6052-6

M. H. Trauth, University of Potsdam, Germany

MATLAB® Recipes for Earth Sciences

Illustrations by: E. Sillmann
With contributions by: R. Gebbers, N. Marwan

MATLAB® is used in a wide range of applications in geosciences, such as image processing in remote sensing, generation and processing of digital elevation models and the analysis of time series. This book introduces methods of data analysis in geosciences using MATLAB such as basic statistics for univariate, bivariate and multivariate datasets, jacknife and bootstrap resampling schemes, processing of digital elevation models, gridding and contouring, geostatistics and kriging, processing and georeferencing of satellite images, digitizing from the screen, linear and nonlinear time-series analysis and the application of linear time-invariant and adaptive filters. The revised and updated Second Edition includes new subchapters on windowed Blackman-Tukey, Lomb-Scargle and Wavelet powerspectral analysis, statistical analysis of point distributions and digital elevation models, and a full new chapter on the statistical analysis of directional data.

Features
► Contains new subchapters and a full new chapter on the statistical analysis of directional data ► Contains exercises and fully worked-out solutions ► Many detailed illustrations ► Digital version of MATLAB recipes on CD-ROM

System requirements
For PC and Mac. For the complete system requirements see: springer.com

Fields of interest
Computer Applications in Geosciences; Quantitative Geology; Math. Applications in Geosciences

Target groups
Graduates, undergraduates, scientists, researchers, professionals

Type of publication
Professional book

Due July 2007

2nd ed. 2007. Approx. 300 p. With CD-ROM. Hardcover

► * **€ (D) 53,45 | € (A) 54,95 | sFr 82,00**
ISBN 978-3-540-72748-4

G. A. Wagner, Universität Heidelberg (Hrsg.)

Einführung in die Archäometrie

Archäometrie befasst sich mit der Entwicklung und Anwendung naturwissenschaftlicher Methoden und Konzepte zur Lösung archäologischer Fragestellungen. Damit ist sie ein weites Forschungsfeld an der Schnittstelle zwischen Natur- und Geisteswissenschaften. Archäologen, Physiker, Chemiker, Bio- und Geowissenschaftler geben einen Überblick über den heutigen Stand der vielfältigen archäometrischen Ansätze, wobei die einzelnen Beiträge sowohl die Grundlagen behandeln als auch anhand von Fallbeispielen die Anwendungsmöglichkeiten aufzeigen.
Die behandelten Themen umfassen Materialanalytik, Datierung, geophysikalische Prospektion, Archäometallurgie, Molekulargenetik, geoarchäologische Umweltrekonstruktion und Kulturentwicklung durch Klimawandel.

Pluspunkte
► Vielseitige Fülle praktischer Informationen für die tägliche Anwendung archäometrischer Methoden ► Konkrete Lösung archäologischer Probleme ► Einführung und Überblick über den aktuellen Stand der Archäometrie für Archäologiestudenten und Forscher

Fachgebiete
Angewandte Geowissenschaften; Archäologie; Anthropologie

Zielgruppen
Studenten, Forscher und Fachleute, die sich mit archäologischen Untersuchungen und der Anwendung naturwissenschaftlicher Techniken zur Lösung archäologischer Probleme befassen; interessierte Laien

Kategorie
Lehrbuch

Erscheint August 2007

2007. Etwa 250 S. Geb.

► **€ (D) 49,95 | € (A) 51,35 | sFr 76,50**
ISBN 978-3-540-71936-6

G. Xu, Geoforschungszentrum Potsdam, Germany

GPS

Theory, Algorithms and Applications

This reference and handbook describes theory, algorithms and applications of the Global Positioning System (GPS/Galileo). It is primarily based on source-code descriptions of the KSGsoft program developed by the author at the GFZ in Potsdam. The theory and algorithms are extended and verified by for a new development of a multifunctional GPS/Galileo software. Besides the concepts such as the unified GPS data processing method and ambiguity-ionospheric algorithm, as well as the general ambiguity search criteria reported in the first edition, there are several highlights reported. Such as the equivalent principle and its applications, the numerical solution of the variation equations, the ambiguity-separated algorithm, etc.. Mathematically rigorous, the book begins with the basics of coordinate and time systems and satellite orbits, as well as GPS observables, and deals with topics such as physical influences, observation equations.

Features
► Combines a theoretical basis with practical and software experience ► Clearly organised
► Standard software is explained

Fields of interest
Geophysics/Geodesy; Geographical Information Systems/Cartography; Landscape/Regional and Urban Planning

Target groups
Graduate students, researchers, practitioners

Type of publication
Monograph

Due July 2007

No distribution rights for China

2nd ed. 2007. Approx. 320 p. Hardcover

► * **€ (D) 106,95 | € (A) 109,95 | sFr 164,00**
ISBN 978-3-540-72714-9

L. Pettersson, **D. Durand**, **O. Johannessen**, University of Bergen, Norway; **D. Pozdnyakov**, St. Petersburg, Russia

Monitoring of Harmful Algae Blooms

Sometimes known as "Red Tides", some of the wide variety of phytoplankton species in the World's oceans produce toxins which can harm marine life. In certain circumstances, these harmful algae blooms can even cause illness or death in humans. Shellfish filter feed on phytoplankton and concentrate their toxins in their bodies and people who eat them can contract life threatening food poisoning. A number of countries have monitoring programmes to measure the presence of toxins in algae blooms. Monitoring of Harmful Algae Blooms is all about the research techniques to monitor visible algae blooms and through remote sensing, including infrared techniques, predict them through mathematical modelling.

Features
► Drawing on current and future satellite data presents visible perspectives of a more efficient HAB monitoring system for the future ► Emphasises practical applications, impacting on marine ecology, national economy, health, food and safety and quality assurance ► Using remote sensing and ecological/biochemical numerical modelling for data assimilation as techniques for predicting HAB

Fields of interest
Monitoring/Environmental Analysis/Environmental Ecotoxicology; Biogeosciences; Geochemistry

Target groups
Scientists, researchers, libraries (oceanography, geoinformation, ecology, marine biology, environmental sciences, remote sensing)

Type of publication
Monograph

PRAXIS

Available

Previously announced in Springer News 06/2005

Jointly published with Praxis Publishing, UK

2007. Approx. 300 p. (Springer Praxis Books / Geophysical Sciences) Hardcover

► * **€ (D) 106,95 | € (A) 109,95 | sFr 164,00**
ISBN 978-3-540-22892-9

Y. Sharan, **A. Tal**, Interdisciplinary Center for Technological Analysis and Forecasting, Tel Aviv, Israel; **H. Coccossis**, University of Thessaly, Volos, Greece (Eds.)

Water Supply in Emergency Situations

This book reflects the outcome of a three day NATO Advanced Workshop entitled 'Supply of Water to Cities in Emergency Situations' organized by ICTAF at Tel-Aviv University and The University of Thessaly, Department of Planning and Regional Development and sponsored by the NATO Security through Science programme. Some 35 experts from 14 countries from Europe, the Middle East and Asia assembled in Tel-Aviv for this event.
The 20 papers presented and the discussions which took place throughout the workshop illuminate a broad spectrum of problems and of concerns to the orderly water supply in the different participating countries ranging from floods, through contamination due to deteriorated infrastructure and to a surprisingly low concern related to intentional terror-related threats. We find insufficient preparedness in many countries to cope with severe disruption of water supply.

Features
► Information on the risks of water contamination by either natural or manmade causes
► Description of contingency plans and procedures for rapid response to ensure supply in emergency situations ► How different governments address the issues discussed

Fields of interest
Environmental Management; Waste Water Technology / Water Pollution Control / Water Management / Aquatic Pollution; R & D/ Technology Policy

Target groups
Decision makers in governmental organizations, municipalities, experts on water

Type of publication
Proceedings

Due July 2007

2007. Approx. 195 p. (NATO Science for Peace and Security Series / NATO Science for Peace and Security Series C: Environmental Security) Hardcover

► * **€ (D) 128,35 | € (A) 131,95 | sFr 197,00**
ISBN 978-1-4020-6303-9

Also available as softcover

► * **€ (D) 53,45 | € (A) 54,95 | sFr 82,00**
ISBN 978-1-4020-6304-6

P. R. Almeida, University of Evora, Portugal; **B. R. Quintella**, **M. J. Costa**, University of Lisbon, Portugal; **A. Moore**, Centre for Environment, Fisheries & Aquaculture Science, Lowestoft, UK (Eds.)

Developments in Fish Telemetry

Proceedings of the 6th Conference on Fish Telemetry held in Europe

This volume includes 33 peer-reviewed papers presented at the Sixth Conference on Fish Telemetry held in Europe (Sesimbra, Portugal, 5-11 June 2005). The papers focus on the application of aquatic telemetry techniques by scientists to investigate fundamental aspects of animal biology in order to conserve and manage natural resources. The topics addressed in this issue are human impacts and fisheries, migration and behaviour, species conservation and habitat rehabilitation, and methodology and new technology.
This book is aimed at scientists and engineers actively involved in aquatic telemetry projects, aquatic biologists (marine and freshwater), fisheries biologist and managers.

Features
► Selection of the most significant papers from the recent 6th Conference on Fish Telemetry in Europe ► Focuses on migration and behaviour, species conservation and habitat rehabilitation, human impacts and fisheries, telemetry methodology and new technology ► Integrates the expertise of engineers and biologists in addressing the major challenges ahead for the management and conservation of aquatic ecosystems

Fields of interest
Animal Ecology; Hydrobiology; Marine Ecology

Target groups
Scientists and engineers actively involved in aquatic telemetry projects; marine and freshwater biologists; fisheries biologists and managers

Type of publication
Contributed volume

Due June 2007

Reprinted from Hydrobiologia, Vol. 582 (2007)

2007. Approx. 310 p. (Developments in Hydrobiology, Volume 195) Hardcover

► * **€ (D) 139,05 | € (A) 142,95 | sFr 213,00**
ISBN 978-1-4020-6236-0

H. Bannwarth, **B. P. Kremer**, **A. Schulz**, Universität zu Köln

Basiswissen Physik, Chemie und Biochemie

Von Atom bis zur Atmung - für Biologen, Mediziner und Pharmazeuten

Erste Hilfe in Physik und Chemie: die Basics für das erfolgreiche Grundstudium. Physikalische, chemische und biochemische Grundlagen sind unverzichtbar für das Verständnis von Biologie, Medizin und Pharmazie.
Dieses Buch bietet im kompakten Überblick das gesamte Basiswissen dieser Grundlagendisziplinen in leicht verständlichen Texten und Abbildungen, bei Beschränkung auf das wirklich Notwendige, abgestimmt auf die Gegenstandskataloge für den Ersten Abschnitt der Ärztlichen und der Pharmazeutische Prüfung, zur leichteren Orientierung im Grundstudium, und zur optimalen Vorbereitung für die Vor- oder Zwischenprüfung.
Das ideale Lernbuch zur Physik und Chemie in Biologie, Medizin und Pharmazie.

Pluspunkte
► Physik, Chemie und Biochemie für das Grundstudium – alles in einem Band ► Nur wirklich relevantes Basiswissen ► Ideale Prüfungsvorbereitung am Ende des Grundstudiums ► Wissensauffrischung in den Semestern des zweiten Studienabschnitts

Inhalt
Einführung: Materie, Energie, Leben.- Atome, Elemente, Ionen.- Aggregatzustände und Lösungen.- Inonenladung und Chemische Bindung.- Säuren, Basen, Salze und Ionenreaktionen.- Chemisches Gleichgewicht und Biologisches Fließgleichgewicht.- Redox- und Säure-/Basen-Reaktionen.- Kohlenstoffverbindungen und Biomoleküle.- Aminosäuren, Peptide, Proteine.- Enzyme und ihre Wirkungen.- Organismischer Primärstoffwechsel: Photosynthese.- Organismischer Intermediärstoffwechsel: Atmung.

Fachgebiete
Biochemie; Physik, allgemein; Chemie/Lebensmittelwissenschaften, allgemein

Zielgruppen
Studenten der Biologie, Medizin und Pharmazie

Kategorie
Lehrbuch

Erscheint September 2007

Angezeigt in Highlights 03/2007

2007. Etwa 390 S. 120 Abb. Brosch.

► **€ (D) 19,95 | € (A) 20,50 | sFr 31,00**
ISBN 978-3-540-71238-1

A. Bationo, **B. Waswa**, **J. Kihara**, **J. Kimetu**, TSBF Institute of CIAT, Nairobi, Kenya (Eds.)

Advances in Integrated Soil Fertility Management in sub-Saharan Africa: Challenges and Opportunities

Food insecurity is a central concern and a fundamental challenge for human welfare and economic growth in Africa. Low agricultural production, results in low incomes, poor nutrition, vulnerability to risks and lack of empowerment. Land degradation and soil fertility depletion are considered the major threats to food security and natural resource conservation in sub-Saharan Africa (SSA). Investments in technology, policy and institutional reforms are needed to increase agricultural productivity to ensure food security and sustained national economies. Past research has generated numerous soil fertility management technologies which if adopted could propel the African continent out of the poverty trap. However, these technologies have had little, if any, impact due to low adoption by the smallholder farmers.

Features
► A comprehensive synthesis of agricultural research and development experiences from sub-Saharan Africa ► Highlights practical lessons (challenges and opportunities) from the sub-Saharan Africa region ► Wide topic coverage, both biophysical and social issues, of integrated soil fertility management (ISFM) ► Discusses both fundamental and applied research aspects of ISFM

From the contents
Preface.- Part I: Setting the scene/Introductory papers.- Part II: Integrated Nutrient Management (INM).- Part III: Below Ground Biodiversity.- Part IV: Participatory Approaches and Scaling up/out.

Fields of interest
Agriculture; Soil Science & Conservation; Landscape Ecology

Target groups
Agricultural research, development and extension personnel, donor community, higher educaton students and universities

Type of publication
Proceedings

Due June 2007

2007. Approx. 1000 p. Hardcover

► * **€ (D) 213,95 | € (A) 219,95 | sFr 328,00**
ISBN 978-1-4020-5759-5

W. H. Conner, Clemson University, Georgetown, SC, USA; **T. W. Doyle**, **K. W. Krauss**, US Geological Survey, Lafayette, LA, USA (Eds.)

Ecology of Tidal Freshwater Forested Wetlands of the Southeastern United States

This book draws together the latest findings from investigators focusing on the hydrological processes, community organization, and stress physiology of freshwater, tidally influenced land-margin forests of the southeastern United States. It describes the land use history that led to the restricted distribution of these wetlands, and provides descriptions of the hydrology, soils, biogeochemistry, and physiological ecology of these systems, highlighting the similarities shared among tidal freshwater forested wetlands. Including case studies from North Carolina, South Carolina, Georgia, Florida and Louisiana, Ecology of Tidal Freshwater Forested Wetlands of the Southeastern United States will be an important resource for researchers, natural resource managers and students interested in understanding the complex dynamics of this unique coastal ecosystem; one that has been altered by land-use history and which is now undergoing decline due to changing climate, sea-level rise and hurricanes.

Features
► Tidal freshwater swamps are unique wetland systems ► These communities are poorly understood ► Help land managers and scientists in understanding commonalities among these forests ► Forests are being impacted by rising sea level and human development

Fields of interest
Ecology; Ecosystems; Landscape Ecology

Target groups
Students, researchers, land managers, professionals working in environmental fields with a focus on wetlands, ecology, or coastal processes, coastal national wildlife refuges and parks, university libraries, departments, and faculties that would benefit from having this in their archives and readily available for writing research proposals and manuscripts

Type of publication
Contributed volume

Due June 2007

2007. XII, 506 p. Hardcover

► * **€ (D) 187,20 | € (A) 192,45 | sFr 287,00**
ISBN 978-1-4020-5094-7

A. Elgersma, **J. Dijkstra**, **S. Tamminga**, Wageningen University, The Netherlands (Eds.)

Fresh Herbage for Dairy Cattle

The Key to a Sustainable Food Chain

Product quality and a sustainable food chain of ruminant products are largely determined by animal nutrition, in which forage is the major feed source. Forages and grasslands play a unique role in agriculture because they contribute through animals to our food supply and to the abatement of environmental problems. Interest in grassland management and grass utilization for dairy production in temperate and subtropical regions has recently led to considerable research efforts. In the past this research often emphasized on plant and animal aspects separately. However, the interrelationship between pasture and the grazing ruminant is a dynamic, two-way process. Many people are not aware of these complex relations, and scientists often focus on either soil-plant interactions, plant production, animal nutrition, animal production or product quality issues.

Features
► Written by leading researchers in grassland and animal sciences ► Provides an integrated view of plant - animal dynamics ► Links issues throughout the food chain of soil - grasslands - herbage intake - product quality ► Contains the contributions of active researchers and leading experts in the field of grassland management and grass utilization

From the contents
1. Achieving high dry matter intake from pasture with grazing dairy cows.- 2. Species-rich swards of the Alps – constraints and opportunities for dairy production.- 3. Cultivar effects of perennial ryegrass on herbage intake by grazing dairy cows.- 4. Nutrient management under grazing.-5. Grazing systems and feed supplementation.- 6. Grassland management with emphasis on N flows.

Fields of interest
Plant Sciences; Agriculture; Animal Biochemistry

Target groups
Advanced students and research workers in grassland and animal nutrition aciences

Type of publication
Proceedings

Available

Only available in print

2006. VII, 194 p. (Wageningen UR Frontis Series, Volume 18) Softcover

► * **€ (D) 48,10 | € (A) 49,45 | sFr 74,00**
ISBN 978-1-4020-5451-8

I. J. Gordon, CSIRO, Townsville, QLD, Australia; **H. H. Prins**, Wageningen University, The Netherlands (Eds.)

The Ecology of Browsing and Grazing

Extensive grazing and browsing by domestic and wild herbivores shape the vegetation composition, structure and dynamics of many terrestrial ecosystems. This volume investigates how large herbivores not only influence the structure and distribution of the vegetation, but also affect nutrient flows and the responses of associated fauna. The mechanisms and processes underlying the herbivores' behaviour, distribution, movement and direct impact on the vegetation, and the dynamics of nutrients, plant species, and vegetation composition in terrestrial ecosystems are discussed in detail. It is shown that an understanding of plant/animal interactions can provide practical advice on the management of large herbivores to integrate production and conservation in terrestrial systems, particularly in the face of environmental and climate change.

Features
► Shows how large herbivores react to the changes of their environment ► Provides also practical advice on the management of large herbivores

From the contents
Grazers and Browsers in a Changing World: Introduction.- An Evolutionary History of Browsing and Grazing Ungulates.- The Morphophysiological Adaptations of Browsing and Grazing Mammals.- Nutritional Ecology of Grazing and Browsing Ruminants.- The Comparative Feeding Bahaviour of Browsing and Grazing Large Herbivores.- The Comparative Population Dynamics of Browsing and Grazing Ungulates.- Species Diversity of Browsing and Grazing Ungulates: Consequences for the Structure and Abundance of Secondary Production.- Impacts of Grazing and Browsing by Large Herbivores on Soils and Soil Biological Properties.- Plant Traits, Browsing and Grazing Herbivores, and Vegetation Dynamics.

Fields of interest
Ecology; Vertebrates; Forestry

Target groups
Researchers, environmental managers, and advanced students

Type of publication
Contributed volume

Due September 2007

2007. Approx. 350 p. 29 illus. (Ecological Studies, Volume 195) Hardcover

► * **€ (D) 128,35 | € (A) 131,95 | sFr 197,00**
ISBN 978-3-540-72421-6

P. Hoffman, University of Virginia, Charlottesville, VA, USA; **H. Friedman**, University of South Florida, Tampa, FL, USA; **M. Bendinelli**, University of Pisa, Italy (Eds.)

Legionella Pneumophila: Pathogenesis and Immunity

Legionella pneumophila is an emerging human pathogen that resides in natural environments as a parasite of freshwater. There have been new developments in this field including the publication of three whole genome sequences, the discovery of a developmental cycle and novel cyst-like highly infectious form, and the bacteria have been used as a probe for macrophage cellular function to unravel fundamental new knowledge in the area of cellular biology. Legionella has also become a model system for the study of innate as well as adaptive immunity. Information on Legionella continues to increase in the U.S. and abroad. Columbia University has started the first Legionella Genome Project with a multi-million dollar grant from the NIH. In addition, The European Working Group for Legionella infections was formed in 1986.

Features
► Dr. Friedman is a long-term expert in the field of Legionella and he has assembled a team of distinguished and internationally recognized leaders in the field to contribute chapters in their respective areas of expertise

From the contents
Legionella pneumophila Pathogenesis: Lessons Learned from Genomics.- Iron Assimilation and Type II Protein Secretion.- The Dot/Icm Type IVB Secretion System.- Life Cycle, Growth Cycles and Developmental Cycle of Legionella.- Legionella in the Environment.- Regulation of the Legionella pneumophila Life Cycle.- Microbial Physiology.- Legionnaires' Disease – Clinical Picture.

Fields of interest
Microbiology; Immunology; Infectious Diseases

Target groups
Researchers and professionals in the fields of microbiology, immunology, infectious disease, medical microbiology, epidemiology, public health, cell biology, and virology

Type of publication
Contributed volume

Due September 2007

2007. Approx. 375 p. (Infectious Agents and Pathogenesis) Hardcover

► * **€ (D) 117,65 | € (A) 120,95 | sFr 180,50**
ISBN 978-0-387-70895-9

D. Krüger, Freie Universität Berlin; **H. Vogt**, Universität Kassel (Hrsg.)

Handbuch der Theorien in der biologiedidaktischen Forschung

Die theoretische Grundlage zum biologiedidaktischen Forschungsprojekt. 21 Theorien - jeweils von ausgewiesenen Fachleuten vorgestellt - bilden den Ausgangspunkt für die fundierte Erforschung fachdidaktischer Fragen. Dies erlaubt jedem Forschungswilligen, sich in kurzer Zeit einen Überblick auch in weniger bekannten Forschungsgebieten zu verschaffen. Es werden Theorien zum erfolgreichen Lehren und Lernen vorgestellt, Theorien zur Erkenntnisgewinnung, zum Bewerten und Theorien zu emotionalen Aspekten des Lernens und Handelns präsentiert.
Ziel ist es, die folgenden Komponenten einer Theorie deutlich zu machen: aufzuzeigen, was getan werden muss, um ein bestimmtes Ziel zu erreichen und nahe zu legen, welche Faktoren kontrolliert werden müssen, wenn man eine Untersuchung plant, vorausschauend die Folgen einer bestimmten Handlung abzuschätzen sowie zrückschauend zu ermöglichen, Ergebnisse zu erklären.
Optimal vorbereitet für die Examensarbeit und den Einstieg in die Dissertation.

Pluspunkte
► Unabdingbar für die Examens- oder Doktorarbeit in der Fachdidaktik

Aus dem Inhalt
Es gibt nichts Praktischeres als eine gute Theorie.- Theorien zu Motivation, Interesse und Einstellung; Theorie des Interesses und Nicht-Interesses; Einstellungen im Kontext Biologieunterricht; Theorie des geplanten Verhaltens; Das sozial-kognitive Prozessmodell gesundheitlichen Handelns; Vom Motiv zum Handeln – Ein Handlungsmodell für den Umweltbereich.

Fachgebiete
Biologie, allgemein; Biomedizin, allgemein; Chemie/Lebensmittelwissenschaften, allgemein

Zielgruppen
Lehramtsstudenten Biologie (für das Staatsexamen), Doktoranden in der Biologiedidaktik

Kategorie
Lehrbuch

Erscheint September 2007

Angezeigt in Highlights 03/2007

2007. Etwa 320 S. 25 Abb. Brosch.

► **€ (D) 19,95 | € (A) 20,50 | sFr 31,00**
ISBN 978-3-540-68165-6

R. Lucius, Humboldt Universität Berlin; **B. Frank**, Universität Hohenheim

Biologie von Parasiten

Infektionserreger der besonderen Art: Malaria, Schlafkrankheit, Würmer und Zecken
Die Autoren bieten auf Grundlage der aktuellen Systematik eine Übersicht über die Biologie parasitärer Einzeller, Würmer und Arthropoden. In Querschnittskapiteln werden die Besonderheiten der parasitischen Lebensweise angesprochen. Die Lebenskreisläufe und immunologische sowie molekulare Aspekte werden am Beispiel typischer Vertreter dargestellt. Anschauliche Abbildungen ergänzen den Text.
Sowohl die Krankheiten der Tiere als auch die des Menschen werden behandelt. Daher ist die „Biologie der Parasiten" für Biologen, Veterinärmediziner und Mediziner ein Gewinn. Eine wertvolle Ergänzung sind die klinischen Bilder der Krankheiten sowie Prüfungsfragen am Ende eines jeden Kapitels.
Mit diesem Lehrbuch sind Sie gut gerüstet!

Pluspunkte
► Deckt den gesamten Stoff des Fachgebiets Parasitologie ab ► Bezieht aktuelle Hypothesen, z.B. Parasiten als Hemmer von Allergien und globale Erderwärmung mit ein

Inhalt
Vorwort.- Einleitung.- Allgemeine Aspekte der Biologie von Parasiten.- Biologie von Microspora, Metamonada und Parabasalea.- Biologie von parasitischer Euglenozoa.- Biologie parasitischer Alveolata.- Biologie parasitischer Amöben und Opalozoa.- Biologie von Myxozoa.- Helminthen.- Arthropoda.- Sachverzeichnis.

Fachgebiete
Zoologie; Parasitologie

Zielgruppen
Biologiestudenten im Haupstudium

Kategorie
Lehrbuch

Erscheint September 2007

Angezeigt in Highlights 03/2007

Ursprünglich erschienen bei Spektrum, 1997

2. Aufl. 2007. Etwa 500 S. 300 Abb. (Springer-Lehrbuch) Brosch.

► approx. **€ (D) 29,95 | € (A) 30,80 | sFr 46,00**
ISBN 978-3-540-37707-8

T. J. McIntosh, Duke University Medical Center, Durham, NC, USA

Lipid Rafts

There are many fundamental unanswered questions concerning the composition, structure, and dynamics of lateral microdomains (rafts) in biological membranes. Thus, sophisticated techniques have been used to study intact cell membranes as well as model systems composed of specific lipids and proteins thought to be in rafts. Using biochemical, biophysical, and computational methods, "Lipid Rafts" provides the most up-to-date information on the subject, information that promises to continue unravelling the many mysteries of the properties and formation of lipid rafts.

Features
► Proven, detailed biochemical, biophysical, and computational methods and protocols

From the contents
Overview of Membrane Rafts.- Analysis of Raft Affinity of Membrane Proteins by Detergent Insolubility.- Non-detergent Isolation of Rafts.- Detecting Ordered Domain Formation (Lipid Rafts) in Model Membranes Using Tempo.- Using Monomolecular Films to Characterize Lipid Lateral Interactions.- Electro-formation and Fluorescence Microscopy of Giant Vesicles with Coexisting Liquid Phases.- Fluorescence Correlation Spectroscopy.- Multiphoton Laser Scanning Microscopy and Spatial Analysis of Dehydroergosterol Distribution on Plasma Membrane of Living Cells.- NMR Detection of Lipid Domains.- Lateral Diffusion Coefficients of Raft Lipids from Pulsed Field Gradient NMR.- Saturation-Recovery EPR Discrimination by Oxygen Transport Method for Characterizing Membrane Domains.

Fields of interest
Biochemistry, general; Biological Microscopy; Cell Biology

Target groups
Molecular biologists, biochemists, biophysicists, and biophysical chemists

Type of publication
Contributed volume

HUMANA PRESS

Due October 2007

2007. Approx. 365 p. 112 illus. 8 in color. (Methods in Molecular Biology, Volume 398) Hardcover

► approx. *** € (D) 82,02 | € (A) 84,32 | sFr 126,00**
ISBN 978-1-58829-729-7

O. Olsen, Monsanto Company, Chesterfield, MS, USA (Ed.)

Endosperm

Developmental and Molecular Biology

The nutritive endosperm of angiosperms is mankind's most important source of food, livestock feed and industrial raw material. This book is the first comprehensive overview of the developmental and molecular biology of endosperm. The text covers cereal endosperm development from fertilization to maturity, including molecular and cell biology of the syncytial phase, the cellularization process and cell fate specification of the embryo surrounding region cells, the basal transfer cells, the starchy endosperm and aleurone cells. In addition, endosperm development in the model species Arabidopsis thaliana is covered, along with recent progress in endosperm in vitro culture. Special features of endosperm, such as imprinting, polyploidy, programmed cell death and anthocyanin biosynthesis, are described in separate chapters.

Features
► First comprehensive book to be published on endosperm ► Most up-to-date overview of the latest research on all aspects of endosperm ► Each chapter is authored by the foremost international experts on the topic

Fields of interest
Plant Anatomy/Development; Plant Physiology; Plant Genetics & Genomics

Target groups
Libraries, institutes; scientists

Type of publication
Contributed volume

Due July 2007

2007. Approx. 220 p. 17 illus., 7 in color. Also available online. (Plant Cell Monographs, Volume 8) Hardcover

► *** € (D) 106,95 | € (A) 109,95 | sFr 164,00**
ISBN 978-3-540-71234-3

R. Pott, **J. Hüppe**, Universität Hannover

Spezielle Geobotanik

Pflanze - Klima - Boden

Pflanzen und ihre Lebensräume - Wie können Pflanzen unter speziellen Lebensbedingungen gedeihen, wachsen und sich vermehren? Organismen interagieren mit ihrer Umwelt auf verschiedenen Ebenen. Die fundamentale Einheit geobotanischer Untersuchungen ist der individuelle pflanzliche und mikrobielle Organismus. Seine evolutive Entwicklung ist das Ergebnis eines selektiven Prozesses und seiner Einnischung in spezifische Lebensräume auf einem höheren Organisationsniveau, den Populationen, den Pflanzengesellschaften und den von ihnen aufgebauten Ökosystemen. Die Beziehungsgeflechte von Klima, Boden und biotischen Interaktionen werden dargestellt. Zahlreiche Beispiele erläutern die Gesetzmäßigkeiten. Die Autoren zeigen, wie natürliche Prozesse, beispielsweise Verlandungen von Gewässern, funktionieren, Sukzessionen sich auswirken oder auch wie sich Störungen nach Stürmen, Bränden oder Klimaänderungen zeigen. Eine Einführung in komplexe Ökosysteme.

Pluspunkte
► Kompakte Einführung in die ökologische Sichtweise für Studierende der Biologie und Geowissenschaften

Inhalt
Grundlagen.- Ökomorphosen der Pflanzen.- Klimafaktoren.- Komplexwirkungen von Temperatur, Licht, Wasser und Wind.- Die Bodenfaktoren.- Die Pflanze im Lebensraum.- Mechanismen der pflanzlichen Interaktionen.- Wirkungsgefüge von Ökosystemen.- Vegetationszonen und Biodiversiät.

Fachgebiete
Botanik; Pflanzenökologie; Landschaftsökologie

Zielgruppen
Biologiestudenten im Grund- und Hauptstudium

Kategorie
Lehrbuch

Erscheint September 2007
Angezeigt in Highlights 03/2007

2007. Etwa 300 S. 50 Abb. in Farbe. Geb.

► **€ (D) 34,95 | € (A) 35,93 | sFr 53,50**
ISBN 978-3-540-49356-3

G. Relini, University of Genoa, Italy; **J. Ryland**, University of Wales, UK (Eds.)

Biodiversity in Enclosed Seas and Artificial Marine Habitats

Proceedings of the 39th European Marine Biology Symposium, held in Genoa, Italy, 21-24 July 2004

The main themes of the Symposium were biodiversity in enclosed and semi-enclosed seas and artificial habitats, and the restoration of degraded systems. These themes are highly relevant today both from a basic scientific point of view and from an applied approach. The papers dealing with the first theme represent current research and concerns about marine biodiversity in enclosed seas and will have wide appeal to all those interested in understanding and preserving the biodiversity of the seas and in particular of the Mediterranean and Black Seas. The papers in the second theme represent a synthesis of up-to-date knowledge on artificial habitats and how they can contribute to protection of coastal marine ecosystems, to enhancement of species diversity and biological resources and to restoration of degraded marine environments.

Features
► Up-to-date knowledge on Artificial Marine Habitats ► Presents current research about Marine Biodiversity in enclosed seas

Fields of interest
Biodiversity; Hydrobiology; Ecology

Target groups
Marine biologists

Type of publication
Contributed volume

Available

Reprinted from Hydrobiologia, Vol. 580 (2007)

2007. VIII, 272 p. (Developments in Hydrobiology, Volume 193) Hardcover

► * **€ (D) 128,35 | € (A) 131,95 | sFr 197,00**
ISBN 978-1-4020-6155-4

J. Samaj, University of Bonn, Germany; **J. Thelen**, University Missouri-Columbia, USA (Eds.)

Plant Proteomics

Proteomics is the large-scale functional analysis of proteins extracted from intact organisms, tissues, individual cells, or cell compartments, at defined timepoints during development or under specific conditions.
Plant Proteomics highlights the rapid progress in this field in plants, with emphasis on recent work in model plant species, subcellular organelles, and specific aspects of the plant life cycle such as signalling, reproduction and stress physiology. Diverse integrated approaches, including advanced proteomic techniques combined with functional genomics, bioinformatics, metabolomics and molecular cell biology, are presented in several chapters, making this book a valuable resource for a broad spectrum of readers ranging from teachers and advanced students to researchers.

Features
► Most comprehensive synthesis of the current knowledge in the field of plant proteomics including new methodological approaches on model plant species, subcellular organelles, plant-microorganism interactions, signalling, plant reproduction and stress resoponses ► Written for a broad spectrum of readers such as researchers, teachers and advanced students

Fields of interest
Proteomics; Plant Biochemistry; Plant Sciences

Target groups
Institutes, libraries, scientists

Type of publication
Monograph

Due October 2007

2007. Approx. 370 p. 38 illus., 6 in color. Hardcover

► * **€ (D) 160,45 | € (A) 164,95 | sFr 246,00**
ISBN 978-3-540-72616-6

B. Sattelmacher, **W. J. Horst**, University of Hannover, Germany (Eds.)

The Apoplast of higher plants: Compartment of Storage, Transport and Reactions

The significance of the apoplast for the mineral nutrition of higher plants

The apoplast may be considered as "the internal physiological environment of plant bodies", that essentially maintains homeostasis.
The book summarizes the experimental work conducted during a trans-disciplinary research programme funded for six years by the German Research Foundation. In their contributions, the authors representing outstanding German scientists from such different disciplines as Physics, Biochemistry, Plant Nutrition, Botany, and Molecular Biology not only report original research but also review the state of knowledge in their particular research fields: nutrient acquisition, short and long distance (xylem) transport, tolerance of nutrient deficiencies and mineral toxicities, and the role of micro-organisms colonizing the apoplast.
Introductory remarks are written to each of the chapters by internationally highly recognized scientists in their research areas.

Features
► Most comprehensive treatise of the role of the plant apoplast for the mineral nutrition of plants ► Combination of original research and reviews by internationally outstanding researchers ► Transdisciplinary research effort ► Development and application of new methodologies

From the contents
Dedication. In Memory of Burkhard Sattelmacher: Walter Horst. Preface: Burkhard Sattelmacher and Walter Horst. Foreword: The Plant–Leaf Apoplast: D.T. Clarkson.- Section 1: Cell Wall – Ion Interactions - Significance for Nutrition of Plants and their Stress Tolerance.- Section 2: The Root Apoplast – Implication for Ion Acquisition and Short-Distance Transport.

Fields of interest
Plant Sciences; Plant Physiology; Agriculture

Target groups
Plant scientists

Type of publication
Contributed volume

Due June 2007

2007. Approx. 460 p. Hardcover

► * **€ (D) 197,90 | € (A) 203,45 | sFr 303,50**
ISBN 978-1-4020-5842-4

Springer Handbook of Enzymes

D. Schomburg, I. Schomburg (Eds.)

Volume 37

D. Schomburg, **I. Schomburg**, Universität zu Köln, Germany (Eds.)

Class 2 Transferases X

EC 2.7.1.113 - 2.7.5.7

Coeditor: A. Chang

The objective of the Springer Handbook of Enzymes is to provide in concise form data on enzymes sufficiently well characterized. Data sheets are arranged in their EC-Number sequence. The volumes are arranged according to enzyme classes. Considerable progress has been made in enzymology since the publication of the first edition (published as "Enzyme Handbook"): many enzymes are newly classified or reclassified. In the 2nd edition each entry is correlated with references and one or more source organisms. New datafields are created: "application" and "engineering" (for the properties of enzymes where the sequence has been changed). Altogether the amount of data has doubled so that the 2nd edition will consist of approx. 42 volumes.

Features
► Concise and complete description of about 3,700 enzymes sufficiently well characterized for application in analytical, synthetic and biotechnology processes as well as in food industry ► Second edition is totally new ► Content has doubled ► Academic researchers will prefer the print version

Fields of interest
Biochemistry, general; Cancer Research; Pharmacology/Toxicology

Target groups
Industrial and academic research

Type of publication
Reference work

Due July 2007

Originally published as volume 14 in the series: Enzyme Handbooks

2nd ed. 2007. Approx. 660 p. Hardcover

► *** € (D) 298,53 | € (A) 306,90 | sFr 457,50**
ISBN 978-3-540-47816-4
Subscription price, valid for subscribers of the whole series ► * € (D) 255,73 | € (A) 262,90 | sFr 392,00

S. L. Shorte, Institut Pasteur, Paris, France; **F. Frischknecht**, University of Heidelberg, Gemany (Eds.)

Imaging Cellular and Molecular Biological Functions

"Imaging Cellular and Molecular Biological Function" provides a unique selection of essays by leading experts, aiming at scientist and student alike who are interested in all aspects of modern imaging, from its application and up-scaling to its development. The chapter content ranges from the basic through to complex overview of method and protocols, and there is also practical and detailed "how-to" content on important, but rarely addressed topics. This first edition features all-colour-plate chapters and a unique continuously updated website forum where contributors and readers share software utilities described herein including a limited license version of the imaging platform management software "PPMS" version 1.0 release, plus relevant new publications and links to other important resources.

Features
► Presents a unique selection of methods and applications orientated chapters on topics of interest for anyone involved in live cell microscopy ► Includes information that will impact both novice and expert alike ► Chapter content ranges from the basic through to complex overview of method and protocols ► Also includes practical and detailed "how-to" content on important, but rarely addressed topics

Fields of interest
Cell Biology; Biochemistry, general; Biological Microscopy

Target groups
Institutes, libraries, scientists

Type of publication
Contributed volume

Due September 2007

2007. Approx. 300 p. 130 illus., 65 in color. (Principles and Practice) Hardcover

► *** € (D) 149,75 | € (A) 153,95 | sFr 229,50**
ISBN 978-3-540-71330-2

K. Stafford, Massey University, Palmerston North, New Zealand

The Welfare of Dogs

This book is one of a series of textbooks on the Welfare of Animals. The dog is the most widely distributed of all the domesticated animals and is used for a wider range of activities than any other species. Dogs live in close proximity to humans as pets but also as free-ranging street and village dogs. The majority of dogs live short lives as street or village dogs and their lifestyle and welfare is often poor. Many dogs work with humans and are also used for sport and entertainment. This book discusses the management of all types of dogs and how this affects their welfare.
In wealthy societies the health and nutrition of valuable working and sport dogs is generally good. However, their function may predispose them to injury as for example racing greyhounds. Pet dogs are often deeply loved, well fed and healthy but many exhibit behaviours which are considered to be caused by anxiety.

Features
► Only book focused entirely on dog welfare ► Wide ranging discussion on the welfare of dogs used for many different purposes ► International perspective on welfare of dogs in developed and under-developed countries ► Combines an appreciation of how the health and nutrition of dogs has improved with an understanding of the social difficulties dogs experience ► Positive outlook on the subject of dog welfare

From the contents
Series Preface. Preface.-Acknowledgements.- Domestication and use of the dog.- Free-living dogs.- Breeds and breeding.- Nutrition and malnutrition.- Health and disease.- Pain and its alleviation.- Training and retraining.

Fields of interest
Zoology; Behavioural Sciences; Animal Genetics and Genomics

Target groups
Libraries, general public, universities, veterinary faculties and staff, veterinarians, animal welfare organisations and staff, dog owners and those who care for dogs, animal welfare professionals (academics, researchers, students, animal shelter staff), animal rights philosophers

Type of publication
Monograph

Due June 2007

2007. XI, 280 p. (Animal Welfare, Volume 4) Softcover

► *** € (D) 42,75 | € (A) 43,95 | sFr 65,50**
ISBN 978-1-4020-6144-8

T. Stoinski, Dian Fossey Gorilla Fund International, Atlanta, GA, USA; **H. D. Steklis**, Rutgers University, New Brunswick, NJ, USA; **P. Mehlman**, Dian Fossey Gorilla Fund International, Atlanta, GA, USA (Eds.)

Conservation in the 21st Century: Gorillas as a Case Study

Like other fields of science, wildlife conservation is a changing field. Threats facing wild populations of apes and other species, say 20 years ago, are likely not the same ones most pressing today, and even where threats have remained unchanged, more effective means of addressing them may be available now. Conservation scientists have learned from many years of experience, and both theoretical and technological advances today provide conservation tools not available in the past. This volume identifies the primary problems faced in conserving wild populations of gorillas throughout Africa, pinpointing new approaches to solving these problems and outlining the increased role that zoos can play in gorilla conservation. It includes expertise of field scientists in a variety of disciplines to discuss current conservation threats, novel approaches to conservation, and potential solutions.

Features
► Can serve as a "conservation handbook" for a variety of species, as well as providing specific information on current conservation issues faced by gorillas in the wild

From the contents
Current state of wild gorilla populations.- An experiment in managing the human animal: The PHVA process and its role in conservation decision-making.- Approaches to corridor planning: Transitioning TAMARIN from Mata Atlantica to Madagascar.- Conservation medicine for gorilla conservation.

Fields of interest
Evolutionary Biology; Zoology

Target groups
Researchers, scientists, professionals, and graduate students in the fields of primatology, physical anthropology, zoology and animal behavior

Type of publication
Monograph

Due October 2007

2007. Approx. 550 p. (Developments in Primatology: Progress and Prospects) Hardcover

► * **€ (D) 103,74 | € (A) 106,65 | sFr 159,00**
ISBN 978-0-387-70720-4

N. Waran, Unitec, Auckland, New Zealand (Ed.)

The Welfare of Horses

This book is the first in a series on the Welfare of Animals, and it is appropriate that it addresses horses, whose welfare in modern management systems are a subject of major concern. Keeping horses is increasingly popular in the Western world and is of major importance in many developing countries. However, the conditions in which horses are kept are very different from the environment of wild horses, which leads to many adverse effects on their welfare and behaviour.
This book describes the development of horse behaviour, and the way in which the management of horses today affects their welfare. Horses for sport, companionship and work are considered and ways of improving their welfare by better training and management is described. The authors include internationally-recognised scientists from Britain, Ireland, USA and Australia.
The book will be of interest to all involved in the equine industry, animal welfare, academics, students and practical horsemen.

Features
► Written by experts on the field ► Focuses on the major issues affecting the welfare of horses ► Assesses welfare, nutrition, behaviour problems with horses

Fields of interest
Zoology; Animal Genetics and Genomics; Animal Physiology

Target groups
Libraries; general public, universities, veterinary faculties and staff, veterinarians worldwide, animal welfare organisations and staff, horse owners and those who care for horses, animal welfare professionals (academics, researchers, students, animal shelter staff), animal rights philosophers

Type of publication
Contributed volume

Due June 2007

2007. XV, 240 p. (Animal Welfare, Volume 1) Softcover

► * **€ (D) 42,75 | € (A) 43,95 | sFr 65,50**
ISBN 978-1-4020-6142-4

M. R. Wilkins, **R. D. Appel**, **K. L. Williams**, **D. F. Hochstrasser** (Eds.)

Proteome Research

Concepts, Technology and Application

Proteomics is a multifaceted, interdisciplinary field which studies the complexity and dynamics of proteins in biological systems. It combines powerful separation and analytical technology with advanced informatics to understand the function of proteins in the cell and in the body. This book provides a clear conceptual description of each facet of proteomics, describes recent advances in technology and thinking in each area, and provides details of how these have been applied to a variety of biological problems. It is written by expert practitioners in the field, from industry, research institutions, and the clinic. It provides junior and experienced researchers with an invaluable proteomic reference, and gives fascinating glimpses of the future of this dynamic field.

Features
► Provides an up-to-date, strategic view on the field of proteomics ► Written by well-known experts in the field ► Each chapter provides a clear conceptual description of one facet of proteomics ► Describes recent advances in technology or thinking in the area, and provides details how this has been applied to relevant biological problems ► Provides junior and experienced researchers an invaluable proteomic reference

Fields of interest
Proteomics; Bioinformatics; Cell Biology

Target groups
Libraries, institutes; scientists

Type of publication
Manual

Due September 2007

2nd ed. 2007. Approx. 210 p. 46 illus., 31 in color. (Principles and Practice) Hardcover

► * **€ (D) 149,75 | € (A) 153,95 | sFr 229,50**
ISBN 978-3-540-71240-4

A. Yuryev, Ariadne Genomics, Inc., Rockville, MD, USA (Ed.)

PCR Primer Design

At the heart of most high-throughput methods is the technique of polymerase chain reaction (PCR). This book focuses on primer design, which is critical to both the efficiency and the accuracy of the PCR. With intricate descriptions of basic approaches as well as specialized methods, "PCR Primer Design" is an exceptional reference for all those involved in studying the genome.

From the contents
Physical Principles and Visual-OMP Software for Optimal PCR Design.- Oligo 7 Primer Analysis Software.- Selection for 3' end triplets for polymerase chain reaction primers.- The reference point method in primer design.- PCR primer design using statistical modeling.- Developing a Statistical Model for Primer Design.- GST-PRIME: An Algorithm for Genome-Wide Primer Design.- Genome-Scale Probe and Primer Design with PRIMEGENS Repeat masking for PCR primer design.- SNPbox: web-based high-throughput primer design with an eye for repetitive sequences.- Fast masking of repeated primer binding sites in eukaryotic genomes.- Degenerate Primer Design: Theoretical Analysis and the HYDEN program.- An Iterative Method for Selecting Degenerate Multiplex PCR Primers.- Primer-design for multiplexed genotyping.- MultiPLX: automatic grouping and evaluation of PCR primers.

Fields of interest
Cell Biology; Human Genetics

Target groups
Geneticists, molecular biologists, and molecular geneticists

Type of publication
Contributed volume

HUMANA PRESS

Due August 2007

2007. Approx. 367 p. 128 illus. (Methods in Molecular Biology, Volume 402) Hardcover

► * **€ (D) 80,20 | € (A) 82,45 | sFr 123,00**
ISBN 978-1-58829-725-9

K. Andersson, **E. Eberhartinger**, **L. Oxelheim** (Eds.)

National Tax Policy in Europe

To Be or Not to Be?

The book is dedicated to the question of how much room for national tax policy Member States of the European Union will be able to maintain in the future. It focuses on the possibilities Member States have and the limits they face, such as the need to finance the welfare state or limits of European and International Law. The research question is looked at from different angles. Economic as well as legal aspects are included. This comprehensive approach allows to give a sophisticated answer.

Features
► Gives an estimation of future development of national tax policy in the EC ► Offers an economic and legal perspective

Contents
K. Andersson, E. Eberhartinger, L. Oxelheim: The Role of National Tax Policies in the European Union.- C. Bellak, M. Leibrecht: Corporate Income Tax Competition and the Scope for National Tax Policy in the Enlarged Europe.- A. Hansson: Free Factor Mobility and Fiscal Competition: Can the National Welfare State Survive in a "United Europe"?- U. Schneider, A. Österle: Fiscal Competition and Activist Social Policy.- K. Andersson: An Optional Common Consolidated Corporate Tax Base in the European Union.- F. Ph. Sutter: The Influence of the European State Aid Rules on National Tax Policy.- M. Dahlberg: The European Court of Justice and Direct Taxation: A Recent Change of Direction?- M. Lang: Tax Treaty Policy.- E. Eberhartinger, M. Six: National Tax Policy, the Directives and Hybrid Finance.- K. Andersson, E. Eberhartinger, L. Oxelheim: The Room for National Tax Policy in the Future Europe.

Field of interest
Public Finance & Economics

Target groups
Researchers, policy makers, consultants

Type of publication
Monograph

Due July 2007

2007. Approx. 300 p. 15 illus. Hardcover

► approx. *** € (D) 90,90 | € (A) 93,45 | sFr 139,50**
ISBN 978-3-540-70709-7

G. B. Asheim, University of Oslo, Norway (Ed.)

Justifying, Characterizing and Indicating Sustainability

This volume brings together 18 articles published during the last 20 years, devoted to understanding the concept of sustainable development. These articles provide economic analysis of this notion from three different perspectives: Justifying Sustainability; Characterizing Sustainability; Indicating Sustainability. The first part (Justifying Sustainability) analyzes from a normative point of view why it is desirable for our generation to contribute to the implementation of sustainable development. The second part (Characterizing Sustainability) describes how manmade capital (both real and human) must be accumulated in order to make up for decreased availability of natural capital. The third part (Indicating Sustainability) examines rules and methods for attaining sustainable development for current and future generations. Each part begins with an article which functions as a survey. An up to date introduction serves to tie the three parts of the volume together.

Features
► Brings together two decades of economic research on sustainability in one volume ► Analyzes sustainability from three different perspectives ► Addresses sustainable development from prescriptive, descriptive and operational points of view

From the contents
Preface. Part I: Justifying Sustainability. Part II: Characterizing Sustainability. Part III: Indicating Sustainability.

Fields of interest
Environmental Economics; Economic Growth; Environment, general

Target groups
Researchers, graduate students and others interested in economic analysis of sustainable development from different perspectives

Type of publication
Collected works

Due June 2007

Only available in print

2007. Approx. 270 p. 15 illus. (Sustainability, Economics, and Natural Resources, Volume 3) Hardcover

► *** € (D) 133,70 | € (A) 137,45 | sFr 205,00**
ISBN 978-1-4020-6199-8

L. Bretschger, ETH Zurich, Switzerland; **S. Smulders**, University of Calgary, AB, Canada (Eds.)

Sustainable Resource Use and Economic Dynamics

Thirty years after the publication of the famous symposium issue of the Review of Economic Studies, which started the neoclassical literature on growth theory and resource economics, this volume seeks to reinforce research efforts in order to provide adequate solutions for today's challenges in the field of sustainable development. It compiles innovative current research from resource, energy and environmental economics and dynamic economic theory. It contains both new approaches as well as detailed surveys of the existing literature. The chapters in the book cover a broad range of aspects regarding the relationship between natural resource use and long-term economic development. In particular, the following topics are studied: incentives for adoption and diffusion of clean technology, resource scarcity and limits to growth, international convergence of energy intensity, and the social norms shaping resource depletion.

Features
► Most recent approaches to modelling technological change and pollution ► Surveys existing literature as well as adds to frontier research ► Provides both theoretical and empirical perspectives

Fields of interest
Environmental Economics; Environment, general

Target groups
Energy economists, environmental economists; energy, environment and climate change consultants, researchers, scientists, policy advisors; macroeconomists, development economists

Type of publication
Contributed volume

Due July 2007

Chapters 2, 3, 6, 8 and 9 reprinted from ENVIRONMENTAL & RESOURCE ECONOMICS, 36:1 (2007)

2007. Approx. 200 p. 20 illus. (The Economics of Non-Market Goods and Resources, Volume 10) Hardcover

► *** € (D) 133,70 | € (A) 137,45 | sFr 205,00**
ISBN 978-1-4020-6292-6

R. Cooper, **K. Donaghy**, **G. Hewings** (Eds.)

Globalization and Regional Economic Modeling

Globalization is affecting regional economies in a broad spectrum of aspects, from labor market conditions and development policies to climate change. To understand better how this works, we need both conceptual and methodological contributions. We need new schemes to organize our thinking, direct our attention, and frame thought experiments on the basis of which guidance may be offered. And we need methodological innovations that enable us to carry out studies and thought experiments at levels of spatial and temporal resolution and formal complexity adequate to capture and account for the phenomena that characterize globalization. The chapters of this volume, written by an international cast of eminent regional scientists, represent contributions of both types, in many cases introducing and demonstrating the use of new tools for analyzing and understanding enormous changes underway in regional economies around the world.

Features
► Timely conceptual refinements for regional analysis ► New tools for analyzing the enormous changes in regional economies due to globalization ► Graphical devices to schematize complex concepts and present

Fields of interest
Regional Science; Microeconomics; Environmental Economics

Target groups
Scientists, practitioners (consultants)

Type of publication
Monograph

Due June 2007

2007. XIII, 475 p. (Advances in Spatial Science) Hardcover

► * **€ (D) 128,35 | € (A) 131,95 | sFr 197,00**
ISBN 978-3-540-72443-8

G. Disterer, Fachhochschule Hannover

Studienarbeiten schreiben

Seminar-, Bachelor-, Master- und Diplomarbeiten in den Wirtschaftswissenschaften

Das Buch hilft Studierenden der Wirtschafts- und Sozialwissenschaften, Studienarbeiten erfolgreich zu schreiben. Es gibt detailliert Auskunft über die qualitativen und formalen Anforderungen, die an Abschlussarbeiten (Bachelorarbeiten, Masterarbeiten, Diplomarbeiten) sowie Seminararbeiten und Hausarbeiten gestellt werden. Dabei werden auch die Gründe für formale Regularien in Prüfungsordnungen und Zitierrichtlinien erläutert. Inhaltliche und formale Anforderungen werden auf diese Weise transparent und verständlich. Mit den klaren Handlungsanleitungen und Hinweisen, die das Buch enthält, wird das Anfertigen von Studienarbeiten für Studierenden wieder zu einer interessanten und spannenden Aufgabe.

Pluspunkte
► Konkrete Handlungsanleitungen für die Anfertigung von Studienarbeiten ► Ausführliche Erläuterung formaler Anforderungen ► Vollständige Überarbeitung und Erweiterung um neue Entwicklungen wie Bachelor/Master und Internet

Inhalt
Einleitung.- Semantische Analyse einer Prüfungsordnung.- Wissenschaftliches Arbeiten.- Positionieren von Studienarbeiten.- Orientierung und Verankerung im Fachgebiet.- Formanforderungen.- Bewertung der Leistungsnachweise.- Abschließende Bemerkungen.

Fachgebiet
Wirtschaftswissenschaften, allgemein

Zielgruppen
Studenten

Kategorie
Lehrbuch

Erscheint Juni 2007

4., überarb. Aufl. 2007. VIII, 195 S. (Springer-Lehrbuch) Brosch.

► **€ (D) 14,95 | € (A) 15,37 | sFr 23,00**
ISBN 978-3-540-72390-5

G. S. Epstein, **S. Nitzan**, Bar-Ilan University, Ramat-Gan, Israel

Endogenous Public Policy and Contests

This book studies endogenous policy determination focusing on the role of interest groups and their lobbying efforts in the determination of public policy. Applying strategic contest theory as the basic methodology, it clarifies the fundamental parameters that determine the behavior of the government and the interest groups - the two contestants for the "prizes" associated with public policy. The fundamental parameters are the objective of the government, political culture, the contest success function, the stakes of the interest groups and their characteristics. The analysis focuses on the relationship between these parameters and public policy, the contest winning probabilities of the interest groups and their efforts. Comprehensive illustrations of the usefulness of the proposed approach are provided in five specific cases: the determination of monopoly price, privatization policy, migration quotas, minimum wage and promotion in tournaments.

Features
► Applies a single simple methodology, strategic contest theory, to capture the basic forces affecting the relationship between public policy and lobbying or influence activities ► It presents five illustrations of the usefulness of the proposed extended contest approach

From the contents
The Basic Contest: The Policy Contest.- Contest Rationalization - Micro Foundations.- The Extended Contest: With Government: Endogenous Public Policy.- Culture, Politicization and Relative Rent Dissipation.- Lobbying and Compromise.- The Policy Effect: Effort and Performance.- Prizes (Size and Distribution) and Efforts.- Asymmetry and Corrective Public Policy.- The Extended Contest: Without Government: The Social Cost of Rent Seeking when Consumer Opposition.- Influences Monopoly Behavior.- Strategic Restraint.

Field of interest
Public Finance & Economics

Target groups
Researchers, graduate and advanced undergraduate students

Type of publication
Monograph

Due September 2007

2007. Approx. 240 p. Hardcover

► * **€ (D) 85,55 | € (A) 87,95 | sFr 131,00**
ISBN 978-3-540-72242-7

F. Hayek (Hrsg.)

Beiträge zur Geldtheorie

von Marco Fanno, Marius W. Holtrop, Johan G. Koopmans, Gunar Myrdal, Knut Wicksell

In diesem Band, der ursprünglich 1933 von Friedrich A. Hayek herausgegeben wurde, sind eine Reihe von Beiträgen zur Geldtheorie zusammengestellt, deren Autoren aus heutiger Sicht zu Wegbereitern der modernen Geldtheorie gezählt werden können.
Die Beiträge von Knut Wicksell, Gunar Myrdal, Johan G. Koopmans, Marius W. Holtrup und Marco Fanno wurden für diese Ausgabe eigens ins Deutsche übersetzt, um sie einer breiteren Öffentlichkeit bekannt zu machen. Die abgedeckten Themengebiete umfassen die Theorie des Geldmarktes, die Umlaufgeschwindigkeit des Geldes, das Problem des „neutralen" Geldes, den Gleichgewichtsbegriff in der geldtheoretischen Analyse sowie das Valutaproblem in den skandinavischen Ländern. Das Vorwort von Hayek setzt die Beiträge in einen Zusammenhang und zeigt die jeweilige Bedeutung der Artikel in der Theorie des Geldes auf.

Inhalt
Marco Fanno: Die reine Theorie des Geldmarktes.- Markus W. Holtrop: Die Umlaufsgeschwindigkeit des Geldes.- Johan G. Koopmans: Zum Problem des „neutralen" Geldes.- Gunar Myrdal: Der Gleichgewichtsbegriff als Instrument der geldtheoretischen Analyse.- Knut Wicksell: Das Valutaproblem in den skandinavischen Ländern.

Fachgebiete
Methodik und Geschichte des ökonomischen Denkens; Makroökonomik; Mathematische Wirtschaftstheorie

Zielgruppen
Wirtschaftshistoriker sowie allgemein wirtschaftswissenschaftlich interessierte Leser

Kategorie
Beitragswerk

Erscheint Juli 2007

Reprint der 1. Aufl. Wien, 1933. 2007. XI, 510 S. (Meilensteine der Nationalökonomie) Geb.

► **€ (D) 129,95 | € (A) 133,60 | sFr 199,00**
ISBN 978-3-540-72211-3

F. Machlup

Führer durch die Krisenpolitik

Ein Buch, das dem Gebildeten – aber nicht gerade nationalökonomisch Gebildeten – auf wissenschaftlich einwandfreie Art eine Orientierung in der Wirtschaftspolitik ermöglicht, hat meines Wissens bisher gefehlt. Fritz Machlup präsentiert in diesem ursprünglich 1934 erschienenen Buch eindruckvoll die komplexen Zusammenhänge von wirtschaftspolitischen Maßnahmen und deren unmittelbare und mittelbare Konsequenzen. Zahlreiche Beispiele räumen mit weitverbreiteten Missverständnissen auf und erläutern ökonomische Gesetze in einer allgemeinverständlichen Sprache. Viele Themen sind dabei auch heute noch höchst aktuell, wie etwa Mindestlöhne, Arbeitszeitverkürzung, Außenhandelsschranken, oder Arbeitslosigkeit durch technologischen Fortschritt, und seine Ausführungen größtenteils noch immer gültig und aufschlussreich.

Inhalt
Wirtschaftspolitik und Krisenpolitik.- Ankurbelung durch Kreditausweitung.- Arbeitsbeschaffung durch Investitionen.- Verkürzung der Arbeitszeit.- Senkung der Produktionskosten.- Erleichterung der Schuldenlast.- Innenkolonisation und Naturalwirtschaft.- Autarkisierung.- Abbau der Außenhandelsschranken.- Reformen des Geldwesens.- Sparen oder konsumieren.- Beschränkung oder Beschleunigung der technischen Fortschritts.- Einschränkung der Konkurrenz.- Planwirtschaft.

Fachgebiete
Wirtschaftspolitik; Methodik und Geschichte des ökonomischen Denkens; Sozialpolitik

Zielgruppen
Wirtschaftshistoriker sowie allgemein wirtschaftswissenschaftlich interessierte Leser

Kategorie
Monographie

Erscheint Juli 2007

Ursprünglich erschienen als Band 6 in der Reihe: Beiträge zur Konjunkturforschung

Reprint der 1. Aufl. Wien, 1934. 2007. XV, 232 S. (Meilensteine der Nationalökonomie) Geb.

► **€ (D) 79,95 | € (A) 82,19 | sFr 122,50**
ISBN 978-3-540-72261-8

O. Morgenstern

Die Grenzen der Wirtschaftspolitik

Die herrschende Ungewissheit über die Bedeutung der Nationalökonomie für das praktische Wirtschaftsleben und über ihre Brauchbarkeit für die Zwecke der Wirtschaftspolitik lässt es angemessen erscheinen, die zwischen der theoretischen Forschung und ihrer Anwendung auf konkrete Aufgaben schwebenden Fragen zu untersuchen.
Der Beginn dieses Buches, welches ursprünglich 1934 erschienen ist, verdeutlicht seine andauernde Aktualität. Nicht nur für Wirtschaftshistoriker ist es interessant, welche Erkenntnisse des komplexen Zusammenspiels von Wirtschaftspolitik und Wirtschaftsleben bereits in der ersten Hälfte des 20. Jahrhunderts bekannt waren.
Durch sein mit John von Neumann veröffentlichtes Hauptwerk „The Theory of Games and Economic Behavior" gilt Oskar Morgenstern als Mitbegründer der Spieltheorie. Zahlreiche vielbeachtete Bücher und Zeitschriftenthemen unter anderem zu Wirtschaftswachstum, Finanzmärkten, und Verteidigung zeugen von seinen vielfältigen Forschungsinteressen.

Pluspunkte
► Oskar Morgenstern: Mitbegründer der Spieltheorie und Autor zahlreicher viel beachteter Bücher und Artikel ► Die Basis der Nationalökonomie: Reprint der 1. Auflage (1934)
► Erkenntnisse von andauernder Aktualität

Fachgebiete
Wirtschaftspolitik; Methodik und Geschichte des ökonomischen Denkens; Sozialpolitik

Zielgruppen
Wirtschaftshistoriker sowie allgemein wirtschaftswissenschaftlich interessierte Leser

Kategorie
Monographie

Erscheint Juli 2007

Ursprünglich erschienen als Band 5 in der Reihe: Beiträge zur Konjunkturforschung

Reprint der 1. Aufl. Wien, 1934. 2007. VII, 136 S. (Meilensteine der Nationalökonomie) Geb.

► **€ (D) 69,95 | € (A) 71,91 | sFr 107,50**
ISBN 978-3-540-72117-8

M. Ryan, University of Aberdeen, UK; **K. Gerard**, University of Southampton, UK; **M. Amaya-Amaya**, University of Aberdeen, UK (Eds.)

Using Discrete Choice Experiments to Value Health and Health Care

Using Discrete Choice Experiments to Value Health and Health Care takes a fresh and contemporay look at the growing interest in the development and application of discrete choice experiments (DCEs) within the field of health economics. The book comprises chapters by highly regarded academics with experience of applying DCEs in the area of health. The first part of the book summarises how DCEs can be implemented, from experimental design to data analysis and the interpretation of results. In many ways this can be regarded as a crash course on the conduct of DCEs. Extensive reference is made throughout to other sources of literature where the interested reader can find further details. The book also includes a series of case studies illustrating the breadth of applications in health economics and some key methodological issues. Finally there is an overview of research issues discussed which the editors believe are at the leading edge of this field.

Features
► Rigorous overview of DCE methods and application in health economics ► Transparency in how to apply current thinking on experimental design to health economics applications ► Clear and illuminating series of applied case studies demonstrating different types of choice modelling techniques and the use of results for policy analysis ► Clear and illuminating series of methodological case studies

Fields of interest
Economics general; Methodology of the Social Sciences; Economic Policy

Target groups
Students in post graduate programmes in economics, health economics, health policy, public health and health services research; researchers based in academic units or health services; commissioners of research and funders of studentships

Type of publication
Contributed volume

Due July 2007

2007. Approx. 250 p. (The Economics of Non-Market Goods and Resources, Volume 11) Hardcover

► * **€ (D) 133,70 | € (A) 137,45 | sFr 205,00**
ISBN 978-1-4020-4082-5

E. Salin

Geschichte der Volkswirtschaftslehre

Edgar Salin, Professor für Nationalökonomie und Ordinarius an der Universität Basel, gibt in diesem Buch einen ebenso knappen wie präzisen Überblick über die europäische Wirtschaftsgeschichte vom klassischen Altertum (Athen, Rom) über das Mittelalter bis hin zum 19. Jahrhundert (Merkantilistik, Physiokratie, Sozialismus und Historismus). In dem ursprünglich 1929 erschienenen Buch wird jede Epoche mit ihren jeweiligen Hauptvertretern vorgestellt und im Zusammenhang erläutert. Zahlreiche weiterführende Quellen und Hinweise auf Schrifttum aus den Epochen sowie ein ausführliches Personenregister runden das Buch ab.

Inhalt
Vorgeschichte: Athen; Rom; Das katholische Europa (Mittelalter).- Geschichte: Die merkantilistische Ökonomik: politische Wissenschaft; Physiokraten und Klassiker: systematische Wissenschaft; Sozialismus und Historismus: evolutionistische Wissenschaft.- Nachfahren und Vorläufer.

Fachgebiete
Methodik und Geschichte des ökonomischen Denkens

Zielgruppen
Wirtschaftshistoriker sowie allgemein wirtschaftswissenschaftlich interessierte Leser

Kategorie
Monographie

Erscheint Juli 2007

Ursprünglich erschienen als Band XXXIV in der Reihe: Enzyklopädie der Rechts- und Staatswissenschaft

Reprint der 2., neu gestalteten Aufl. Berlin, 1929. 2007. IX, 106 S. (Meilensteine der Nationalökonomie) Geb.

► **€ (D) 69,95 | € (A) 71,91 | sFr 107,50**
ISBN 978-3-540-72259-5

G. Schmölders

Finanzpolitik

Über Jahrzehnte war die Finanzpolitik von Günter Schmölders, Professor der Wirtschaftlichen Staatswissenschaften an der Universität zu Köln, das Standardwerk der angewandten Wissenschaft der öffentlichen Einnahmen und Ausgaben „nicht nur für den akademischen Unterricht, sondern zugleich auch für die politische Praxis". Von einer ausführlichen Beschreibung der Finanzverfassung und der finanzpolitischen Willensbildung ausgehend, werden die Ausgabenpolitik („Gesetz der wachsenden Staatstätigkeit") sowie die Einnahmenpolitik („Die Kunst der Besteuerung") einer umfassenden Analyse unterzogen. Das Buch, welches ursprünglich 1970 erschienen ist, stellt auch mehr als drei Jahrzehnte später ein nützliches Nachschlagewerk über alle Aspekte der Finanzpolitik dar.

Inhalt
Einleitung.- Die Finanzverfassung.- Die finanzpolitische Willensbildung: Planung und Vollzug; Die treibenden Kräfte.- Die Ausgabenpolitik: Das „Gesetz" der wachsenden Staatstätigkeit; Die öffentlichen Ausgaben; Die öffentlichen Ausgaben im Dienste der Wirtschaftspolitik.- Die Einnahmenpolitik: Die öffentlichen Einnahmen; Die Kunst der Besteuerung; Die Steuern als Instrument der Politik; Die Politik der öffentlichen Schulden.- Erfolgsmaßstäbe der Finanzpolitik: Ordnungsmäßigkeit der Finanzgebarung; Finanzpolitik im Dienste der Wirtschaftspolitik; Finanzpolitik als „große Politik".

Fachgebiete
Makroökonomik; Methodik und Geschichte des ökonomischen Denkens; Wirtschaftspolitik

Zielgruppen
Wirtschaftshistoriker sowie allgemein wirtschaftswissenschaftlich interessierte Leser

Kategorie
Monographie

Erscheint Juli 2007

Ursprünglich erschienen in der Reihe: Enzyklopädie der Rechts- und Staatswissenschaft

Reprint der 3., neu überarb. Aufl. Berlin, Heidelberg, New York, 1970. 2007. XI, 520 S. (Meilensteine der Nationalökonomie) Geb.

► **€ (D) 129,95 | € (A) 133,60 | sFr 199,00**
ISBN 978-3-540-72213-7

W. Sombart

Die Ordnung des Wirtschaftslebens

Werner Sombart fasst in diesem Buch Die „Systematisierung", die „Organisierung", und die „Regulierung" des Wirtschaftslebens zusammen und gibt einen guten Überblick über verschiedene Organisationsformen von wirtschaftlicher Tätigkeit, sowohl auf volkswirtschaftlicher als auch auf betriebswirtschaftlicher Ebene. Das Buch, welches ursprünglich 1927 veröffentlicht wurde, ist somit eine aufschlussreiche Sammlung des Diskussionsstandes zu Fragen über Wirtschaftssysteme, Betriebsorganisation und wirtschaftspolitische Standpunkte im ersten Drittel des 20. Jahrhunderts.

Inhalt
Einleitung.- Die Systematisierung des Wirtschaftslebens: Die bisherigen Versuche der Systematisierung; Die Idee des Wirtschaftssystems; Die einzelnen Wirtschaftssysteme.- Die Organisierung des Wirtschaftslebens: Die allgemeinen Grundsätze der Betriebsbildung; Die Betriebe auf den einzelnen Wirtschaftsstufen; Die Betriebsgestaltung in der kapitalistischen Wirtschaft.- Die Regulierung des Wirtschaftslebens: Die Typen der wirtschaftspolitischen Systeme; Die wirtschaftspolitischen Systeme der Vergangenheit; Die Wirtschaftspolitik der Gegenwart.

Fachgebiete
Methodik und Geschichte des ökonomischen Denkens; Wirtschaftssysteme; Wirtschaftspolitik

Zielgruppen
Wirtschaftshistoriker sowie allgemein wirtschaftswissenschaftlich interessierte Leser

Kategorie
Monographie

Erscheint Juli 2007

Ursprünglich erschienen als Band XXXV in der Reihe: Enzyklopädie der Rechts- und Staatswissenschaft

Reprint der 2., verb. Aufl. Berlin, 1927. 2007.
VIII, 65 S. (Meilensteine der Nationalökonomie) Geb.

► **€ (D) 69,95 | € (A) 71,91 | sFr 107,50**
ISBN 978-3-540-72253-3

P. J. Welfens, University of Wuppertal, Germany; **E. Walther-Klaus**, T-Systems Enterprise Services GmbH, Düsseldorf, Germany (Eds.)

Digital Excellence

University Meets Economy

Innovations in business are more than the product of the relationship between companies and their customers. Through the addition of research institutes and universities new innovative spaces are created which reveal not only concrete projects and innovative ideas, but also processes and procedures for forming new ideas.
This book offers examples of how experience and innovation can be combined to create something new, with a particular emphasis on practical implementation, such as generating successful solutions by merging ICT (Information and Communication Technology) and managerial concepts.
"University meets Economy" offers universities an insight into corporate practice while providing businesses direct access to innovative concepts.

Features
► Presents new findings on Information and Communication Technology, software applications and digital networking opportunities ► Gives insight into the role of modern software development and application

Fields of interest
R & D/Technology Policy; Technology Management; Information Systems

Target groups
Economists, business professionals, IT specialists, policy-makers

Type of publication
Proceedings

Due July 2007

2007. Approx. 160 p. Hardcover

► approx. * **€ (D) 74,85 | € (A) 76,95 | sFr 115,00**
ISBN 978-3-540-72620-3

H. Chen, **E. Reid**, **J. Sinai**, **A. Silke**, **B. Ganoz**

Terrorism Informatics

Knowledge Management and Data Mining for Homeland Security

Terrorism informatics has been defined as the application of advanced methodologies, information fusion and analysis techniques to acquire, integrate process, analyze, and manage the diversity of terrorism-related information for international and homeland security-related applications. The variety of methods used in terrorism informatics are derived from Computer Science, Informatics, Statistics, Mathematics, Linguistics, Social Sciences, and Public Policy and they involve the collection of a mass of information from multiple sources and in numerous languages. Terror Informatics: Knowledge Management and Data Mining for Homeland Security will provide an interdisciplinary and understandable textbook that surveys the state of the art of terrorism informatics domain along three basic dimensions: methodological issues in terrorism research; information infusion techniques to support terrorism prevention, detection, and response; and legal, social, privacy, and data confidentiality challenges and approaches.

Features
► Emphasizes the cutting-edge concepts, technologies, and practices that are being developed in terrorism informatics to meet today's worldwide challenges ► Each of the 28 chapters in the book has been developed by leading expert on the chapter topic ► Each chapter comprehensively reviews of the past and recent research work in the chapter area and many chapters include detailed case studies

Fields of interest
Information Systems; Data Structures, Cryptology and Information Theory; Information Systems and Communication Service

Target groups
Counter-terrorism experts and professionals, academic researchers in information systems, computer science, political science, and public policy, graduate students in these areas

Type of publication
Handbook

Due October 2007

2007. Approx. 640 p. (Integrated Series in Information Systems) Hardcover

► approx. *** € (D) 123,59 | € (A) 127,05 | sFr 189,50**
ISBN 978-0-387-71612-1

H. Chen, University of Arizona, Tucson, AZ, USA;
M. C. Roco, National Science Foundation, Arlington, VA, USA

Mapping Nanotechnology Innovations and Knowledge

Mapping Nanotechnology Innovations and Knowledge will define the application of Information Technology's systematic and automated knowledge mapping methodology to collect, analyze and report nanotechnology research on a global basis. The result of these analyses will be a systematic presentation of the state of the art of nanotechnology, which will include basic analysis, content analysis, and citation network analysis of comprehensive nanotechnology findings across technology domains, inventors, institutions, and countries. Many sources will be explored in detail to ensure the examination will be global in nature, comprehensive in scope, reliable in content, and completely current. Among the sources investigated and catalogued will be the nanotechnology patent and literature databases from the US patent Office (USPTO), the European Patent Office (EPO), and the Japanese Patent Office (JPO).

Features
► Reflects recent growth in nanoscale science and engineering ► Analyzes an industry expected to reach $1 trillion by 2015 ► Includes analysis of Patent Office databases in the US, Europe and Japan

Fields of interest
Information Systems; Data Structures, Cryptology and Information Theory; Nanotechnology

Target groups
Researchers and students in the fields of information systems and management, computer science; practitioners in nanotechnology industries, policy makers and analysts in government

Type of publication
Monograph

Due September 2007

2007. Approx. 300 p. (Integrated Series in Information Systems) Hardcover

► approx. *** € (D) 81,59 | € (A) 83,88 | sFr 125,00**
ISBN 978-0-387-71619-0

E. Congregado, Universidad de Huelva, Spain (Ed.)

Measuring Entrepreneurship

Building A Statistical Entrepreneurship System

This volume provides a comprehensive review of the theoretical concepts and empirical models of entrepreneurship from a non-conventional perspective. Its main purpose is to contribute to the design of an efficient system of indicators of entrepreneurship and competitiveness. The existence of a gap between the theory of entrepreneurship and the methods and data available for testing its main propositions has been widely recognized. Hence, some of the most prestigious researchers have collaborated to review and develop the statistical sources, indicators and proxies currently available for empirical studies on the phenomena of entrepreneurship.
The book thereby makes recent advances in the theory and application of the economics of entrepreneurship accessible to a wider audience, including policy makers, emphasizing data requirements to advance the future research agenda and to allow for a better design and monitoring of entrepreneurial policy.

Contents
Introduction and Outline.- Part I The Current State.- Part II Measurement: Dimensions, Indicators and Statistical Sources.- Part III The Current Applied Research on Entrepreneurship: Exploring the Relationship between Entrepreneurship and Economic Growth.- Index.

Fields of interest
Entrepreneurship; Labor Economics; Statistics for Business/Economics/Mathematical Finance/Insurance

Target groups
Scientists, policy makers, professionals

Type of publication
Contributed volume

Due August 2007

2007. Approx. 275 p. (International Studies in Entrepreneurship, Volume 16) Hardcover

► approx. *** € (D) 81,59 | € (A) 83,88 | sFr 125,00**
ISBN 978-0-387-72287-0

K. P. Fähnrich, Universität Leipzig; **C. v. Husen**, Fraunhofer IAO, Stuttgart (Hrsg.)

Entwicklung IT-basierter Dienstleistungen

Co-Design von Software und Services mit ServCASE

Egal ob es um Multimediale Lernangebote per Internet, moderne Logistikdienstleistungen oder komplexe Versicherungsangebote geht: Die passende Software wird für Dienstleister zunehmend zum Erfolgsfaktor. Dies gilt sowohl für Unterstützungssysteme im Back-Office-Bereich als auch für die Interaktion mit dem Kunden im Front-Office-Bereich. Wachsender Zeit- und Kostendruck sowie hohe Qualitätsanforderungen unterstreichen zusätzlich die Notwendigkeit einer integrierten Entwicklung von Software und Services. Dennoch fehlten bisher in der Dienstleistungswirtschaft exemplarische Vorgehensweisen, Methoden und Werkzeuge. Diese Problematik aufgreifend präsentieren die Autoren das im Forschungsprojekt ServCASE entstandene Referenzmodell für das Co-Design von Software und Services. Insbesondere umfasst das Referenzmodell Vorgehensweisen, Methoden und die Beschreibung einer werkzeugunterstützten Entwicklungsplattform. So vermittelt das Buch neben den theoretischen Grundlagen die praktische Anwendung der Methode.

Pluspunkte
► Praktischer Leitfaden für die Erstellung von Dienstleistungen ► Mit Beispielen aus sechs unterschiedlichen Fachbereichen ► Mit Fallstudien zur Veranschaulichung des Co-Designs von Dienstleistungen und IT

Fachgebiete
Wirtschaftsinformatik; Management; Software Engineering

Zielgruppen
Unternehmenspraktiker in Dienstleistungsentwicklung und im Software Engineering; Wirtschaftswissenschaftler, Informatiker

Kategorie
Fachbuch

Physica-Verlag

Erscheint Juli 2007

2007. Etwa 300 S. Geb.

► approx. **€ (D) 59,95 | € (A) 61,63 | sFr 99,00**
ISBN 978-3-7908-1943-4

T. L. Friesz, Pennsylvania State University, University Park, PA, USA

Dynamic Optimization and Differential Games

Dynamic Optimization and Differential Games has been written to address the increasing number of Operations Research and Management Science problems (that is, applications) that involve the explicit consideration of time and of gaming among multiple agents. It is a book that will be used both as a textbook and as a reference and guide to engineers, operation researchers, applied mathematicians and social scientists whose work involves the theoretical aspects of dynamic optimization and differential games. Included throughout the text are detailed explanations of several original dynamic and game-theoretic mathematical models which are of particular relevance in today's technologically-driven-global economy: revenue management, supply chain management, electric power systems, urban freight systems, dynamic congestion pricing, dynamic traffic assignment, electronic commerce and the Internet. In addition, there will be some more traditional applications with useful pedagogical content included in Chapter 1.

Features
► These fields are very actively working on the new, high-interest problems that require the strengthening of modeling skills to solve dynamic optimization problems and dynamic games
► While the mathematics of continuous time games can be somewhat daunting, Terry Friesz has made a major effort in developing the book by simplifying and using the unifying approach of differential variational inequalities

Fields of interest
Operations Research/Decision Theory; Optimization; Game Theory, Economics, Social and Behav. Sciences

Target groups
Students, practitioners, researchers of OR/MS, industrial engineering, supply chain management, applied economics, transportation, and economic geography

Type of publication
Monograph

Due November 2007

2007. Approx. 480 p. (International Series in Operations Research & Management Science) Hardcover

► approx. *** € (D) 79,07 | € (A) 81,29 | sFr 121,50**
ISBN 978-0-387-72777-6

A. Habisch, **M. Neureiter**, **R. Schmidpeter** (Hrsg.)

Handbuch Corporate Citizenship

Corporate Social Responsibility für Manager

Dieses Buch liefert eine fundierte Gesamtsicht der vielfältigen Anwendungsmöglichkeiten von Corporate Social Responsibility (CSR) und Corporate Citizenship im täglichen Wirtschaftsleben. Es gibt Managern und CSR-Verantwortlichen das Rüstzeug, um mit der gesellschaftlichen Verantwortung des Unternehmens Wettbewerbsvorteile zu erzielen und so einen nachhaltigen Unternehmenswert aufzubauen. Das Buch ist ein Ideenkatalog mit praxisbezogenen Vorschlägen für die Umsetzung im Unternehmen, vermittelt zugleich aber auch das wissenschaftliche Hintergrundwissen. Praktiker aus unterschiedlichsten Bereichen geben Insiderwissen weiter und zeigen, wie Corporate Citizenship erfolgreich angewendet werden kann.

Pluspunkte
► Trendthema „Corporate Social Responsibility" als strategischer Managementansatz ► Umfassendes Handbuch mit allen Aspekten der gesellschaftlichen Verantwortung von Unternehmen ► Mit konkreten Handlungsempfehlungen zur Umsetzung in der Praxis

Inhalt
Einführung in das Corporate Citizenship Management.- Praxis des CC-Managements in Funktionsbereichen des Unternehmens.- Instrumente des CC-Managements.- Bereiche des CC-Engagements.- Rahmenbedingungen und öffentliche Partner.- Corporate Citizenship im internationalen Kontext.

Fachgebiete
Management; Sozialpolitik; Personal

Zielgruppen
Führungskräfte in Unternehmen

Kategorie
Fachbuch

Erscheint Juni 2007
Angezeigt in Highlights 02/2007

2007. Etwa 450 S. Geb.

► approx. **€ (D) 69,95 | € (A) 71,91 | sFr 107,50**
ISBN 978-3-540-36357-6

R. Heutschi, IMG St. Gallen, Schweiz

Serviceorientierte Architektur

Architekturprinzipien und Umsetzung in die Praxis

Die Fähigkeit, Innovationen im Geschäftsmodell schnell und effizient in operativen Prozessen und IT-Systemen umsetzen zu können, ist in der heutigen Wettbewerbssituation von zentraler Bedeutung. In vielen Unternehmen schränkt die vorhandene über Jahre gewachsene IT-Architektur die Reaktionsfähigkeit auf neue Anforderungen ein. Eine serviceorientierte Architektur (SOA) ist ein viel versprechender Ansatz, Geschwindigkeit und Qualität der unternehmensweiten Applikationsentwicklung und -integration zu erhöhen und ihre Komplexität und Kosten zu senken. Das vorliegende Buch beschreibt die zentralen Prinzipien und Konzepte einer SOA und ordnet sie im Themengebiet Unternehmensarchitektur ein. Anhand von Fallstudien zeigt es konkrete Ausprägungen sowie Treiber und Nutzenpotenziale in der Praxis. Es diskutiert weiter Maßnahmen zur Einführung und zeigt Ansätze für die Entwicklung und Steuerung einer SOA.

Pluspunkte
► Das Buch zeigt die Vorteile einer serviceorientierten Architektur bei neuen Anwendungen ► Fallstudien demonstrieren die konkreten Ausprägungen von SOA

Inhalt
Einleitung.- Grundlagen.- Prinzipien serviceorientierter Architekturen.- Fallbeispiele zu SOA.- Architekturmanagement und Servicedesign.- Zusammenfassung und Ausblick.

Fachgebiete
Management; Wirtschaftsinformatik; Anwendung von Informationssystemen (einschl. Internet)

Zielgruppen
Praktiker

Kategorie
Fachbuch

Erscheint Juni 2007

2007. XI, 229 S. 51 Abb., 52 Tab. (Business Engineering) Geb.

► **€ (D) 39,95 | € (A) 41,07 | sFr 61,50**
ISBN 978-3-540-72357-8

T. Hutzschenreuter, **S. Dresel**, **W. Ressler**, WHU Vallendar

Offshoring von Zentralbereichen

Von den Erfahrungen deutscher und amerikanischer Unternehmen lernen

Seit einiger Zeit machen Unternehmen verstärkt von der Möglichkeit Gebrauch, neben der Produktion auch zentrale Funktionen wie IT, Finanz- und Rechnungswesen oder Personalwesen im Ausland zu erbringen. Basierend auf einer umfangreichen empirischen Studie von deutschen und amerikanischen Unternehmen liefern die Autoren einen detailreichen Überblick über den aktuellen Stand des Offshorings von Zentralbereichen in der Praxis. Sie analysieren die bisher erzielten Ergebnisse und zeigen Risiken, Hindernisse und ungenutzte Möglichkeiten auf. Das Buch hilft Entscheidern in Unternehmen, vor einer geplanten Auslagerung von den Erfahrungen deutscher und amerikanischer Unternehmen zu lernen und den Erfolg bestehender Aktivitäten, z.B. im Hinblick auf Einsparpotentiale und Servicequalität, an den Ergebnissen anderer Unternehmen zu messen. Auch Beratungsunternehmen, Service Providern und Wissenschaftlern bietet das Buch einen interessanten Einblick in die Gegenwart und zukünftige Entwicklung des Offshorings.

Pluspunkte
► Analyse der Realisierungsoptionen, Vorteile, Risiken, dynamischen Aspekte und Trends im Bereich Offshoring ► Basierend auf Ergebnissen einer umfangreichen empirischen Studie ► Hilfestellung bei der Bewertung bestehender und Umsetzung neuer Offshoring-Aktivitäten ► Case studies deutscher und amerikanischer Unternehmen

Fachgebiete
Organisation/Planung; Management; Wirtschaftsinformatik

Zielgruppen
Entscheider in Unternehmen, Unternehmensberater, Wissenschaftler

Kategorie
Fachbuch

Erscheint Juni 2007

2007. Etwa 200 S. Geb.

► **€ (D) 59,95 | € (A) 61,63 | sFr 92,00**
ISBN 978-3-540-71934-2

K. Kogan, Bar-Ilan University, Ramat Gan, Israel; **C. S. Tapiero**, Polytechnic University, New York, NY, USA

Supply Chain Games

Operations Management and Risk Evaluation

In today's global economy, supply chains are an essential ingredient to corporate survival and growth. Operations strategy in supply chains must assume an ever-expanding and strategic role of risks that modern enterprises face when they operate in an interdependent supply chain environment. These operational and strategic facets entail a brand new set of operational problems and risks that have not always been understood or managed very well. It falls to supply chain managers to identify and to educate corporate mangers on what these critical operational problems and risks involve. Supply Chain Games: Operations Management and Risk Evaluation provides business students and practitioners with the means to understand, to model and to analyze these outstanding issues and problems that are the essential elements in managing supply chains today.

Features
► The recent explosive growth in supply chains, maintaining control over traditional operational and risk management issues, have become even more in complex and at the same time strategic-game-like in their nature ► First expository analysis and application of these recent developments in today's economy

Fields of interest
Production/Logistics; Operations Research/ Decision Theory; Industrial and Production Engineering

Target groups
Students, academic researchers, practitioners

Type of publication
Monograph

Due November 2007

2007. Approx. 300 p. (International Series in Operations Research & Management Science) Hardcover

► approx. * **€ (D) 79,07 | € (A) 81,29 | sFr 121,50**
ISBN 978-0-387-72775-2

I. Matthäus-Maier, KfW, Frankfurt am Main, Germany; **J. D. Pischke**, Reston, VA, USA (Eds.)

Microfinance Investment Funds

Leveraging Private Capital for Economic Growth and Poverty Reduction

Microfinance investment funds are a recent development that will grow in importance. These funds expand the range of opportunities for financing microfinance institutions, enabling them to offer greater outreach and diversity of products for microentrepreneurs and small businesses. Microfinance now spans the range of finance, from the most simple enterprise to the complexity of capital markets. KfW actively promotes microfinance investment funds and other activities that facilitate the growth of microfinance. This book is an expression of KfW's role as information broker and trend setter. The authors who contributed to this collection offer a comprehensive range of perspectives and themes related to microfinance investment and its promotion.

Features
► First-ever editorial volume on microfinance investment funds ► Wide and unique range of perspectives and voices in the field of microfinance ► Special features include an overview on the market for investment in microfinance, the risk assessment of microfinance, foreign exchange risk, and corporate governance

Contents
Introductory Remarks: The Purpose of Our Endeavour.- Microfinance Investment Funds: Where Wealth Creation Meets Poverty Reduction.- The Market for Investment in Microfinance: Microfinance Investment Funds: Objectives, Players, Potential.- The Market for Microfinance Foreign Investment: Opportunities and Challenges.- Micro-bubble or Macro-immunity? Risk and Return in Microfinance.

Fields of interest
Finance /Banking; Development Economics; Financial Economics

Target groups
Professionals in banks and financial institutions as well as in development assistance agencies; researchers

Type of publication
Monograph

Due June 2007

1st ed. 2006. 2nd printing. 2007. XIV, 291 p. 12 illus. Softcover

► * **€ (D) 37,40 | € (A) 38,45 | sFr 57,50**
ISBN 978-3-540-72423-0

A. Picot, LMU Munich, Germany; **R. Reichwald**, TU Munich, Germany; **R. Wigand**, University of Arkansas at Little Rock, AR, USA

Information, Organization and Management

Information, Organization and Management is a comprehensive treatment of the economic and technical foundations for new organizational forms, relations and processes. It provides a wide range of underlying concepts and frameworks that help the reader understand the major forces driving organizational and marketplace change, rather than presenting these changes as simple outcomes of technological or management fads.

► *The book has a heavier than usual economic bent, yet also considers the human cognitive aspects. The emphasis throughout is on the total concepts, with subsections at the end of each chapter describing the role of information and the implications for management. The content is well worth reading.* ► **Paul Gray,** Claremont Graduate School and University of California at Irvine.

Features
► Offers a holistic perspective on organizational development in the light of rapid development of new information and communication technologies ► Contains case studies

Fields of interest
Organization/Planning; Management; Information Systems

Target groups
Researchers, graduate students

Type of publication
Monograph

Due August 2007

2007. Approx. 500 p. Hardcover

► * **€ (D) 106,95 | € (A) 109,95 | sFr 164,00**
ISBN 978-3-540-71394-4

G. Schwetje, **S. Vaseghi**, **J. Gentilozzi**, Deloitte & Touche, Hamburg, Germany

The Business Plan

How to Win Your Investors' Confidence

This book provides the essentials to write a successful businessplan. The represented methods and best practices have been approved over many years in practice with many management consulting engagements. The book is easily structured, it has a pragmatic emphasis and an autodidactic approach. The reader gets acquainted with the skills and competencies as well as tools, required for the planning and development of the businessplan project. This way of approach gives even those readers, with less background in business, a professional and excellent introduction to the field of business planning. Each section of the book closes with a set of crucial key questions, in the manner of a quick due diligence, these results essentially give a roadmap, independent of the industries applied. The book allows the reader to make up a clear and transparent portrait about his/her company respectively entrepreneurial intention. By this way, the reader is able to estimate himself/herself the real risks and chances.

Features
► Provides the experience and best practices of a leading consulting firm ► Contains crucial questions that give a roadmap to the writing of a businessplan

Contents
Why a Businessplan.- The Businessplan project.- The executive summary.- The business idea and the strategic goals.- The Management team and organization.- The products and services.- The market and the competitors.- Marketing and sales.- Research and development.- Production.- Purchasing and logistics.- Finances.- How to win your investors' confidence.

Fields of interest
Management; Entrepreneurship; Organization/ Planning

Target groups
Practitioners

Type of publication
Professional book

Due August 2007

2007. Approx. 180 p. Hardcover

► * **€ (D) 37,40 | € (A) 38,45 | sFr 57,50**
ISBN 978-3-540-25451-5

F. W. Taylor, A. Wallichs

Die Betriebsleitung insbesondere der Werkstätten

Diese Übersetzung des ersten Hauptwerkes von Frederick Winslow Taylor, dem Namensgeber des „Taylorismus", ist Vorbild für unzählige Management-Ratgeber geworden. Seine Erkenntnis dass der wesentliche Aspekt der „Kunst der Leitung" in der „Regelung der persönlichen Verhältnisse zwischen Arbeitgeber und Arbeitnehmer" zu suchen ist, hat ihn vor über hundert Jahren zum Schreiben dieses Buches inspiriert.
Schwerpunkte dieses Buches über Rationalisierung sind die Reorganisation von Unternehmen des verarbeitenden Gewerbes, die Lohnpolitik, sowie zahlreiche Aspekte der praktischen Anwendung der von ihm vorgeschlagenen Führungsgrundsätze.

Pluspunkte
► Vorbild für unzählige Management-Ratgeber ► Über die „Kunst der Leitung" ► Zahlreiche Aspekte der praktischen Anwendung

Inhalt
Allgemeine Gesichtspunkte über Werkstättenleitung.- Absichtliche Minderleistung der Leute. Zusammenhang der Minderleistung mit dem gebräuchlichen Lohnverfahren. Zeitstudien.- Wissenschaftliche Zeitstudien als Grundlage für die Löhnung.- Gesichtspunkte für den Wechsel in der Organisation. Hauptgrundsätze für die Werkstättenleitung. Einführung von Normalien. Pensumverfahren.- Zusammenfassende Darstellung der gebräuchlichen Lohnverfahren.- Organisation in Maschinenbauwerkstätten. Einteilung der Meister nach besonderen Tätigkeiten.- Arbeitsbureau.- Hilfsmittel des Arbeitsbureaus.- Einführung von Normalien.- Einführungsgrundsätze.- Erfahrungen über die Einführung und das Wirken der Taylor-Organisation.- Vornahme der Zeitstudien.- Erfolge der jüngsten Zeit.- Das Wesen und die Bedeutung der wohldurchdachten Leitung.

Fachgebiete
Management; Organisation/Planung; Unternehmertum

Zielgruppen
Wirtschaftshistoriker sowie allgemein betriebswirtschaftlich Interessierte

Kategorie
Monographie

Erscheint Juni 2007

Reprint der 3. Aufl. Berlin, 1914. 2007. VI, 58 S. (Meilensteine der Nationalökonomie) Geb.

► **€ (D) 74,95 | € (A) 77,06 | sFr 115,00**
ISBN 978-3-540-72147-5

A. Weintraub, C. Romero, T. Bjørndal, R. Epstein (Eds.)

Handbook of Operations Research in Natural Resources

Handbook of Operations Research in Natural Resources will be the first systematic handbook treatment of quantitative modeling natural resource problems, their allocated efficient use, and societal and economic impact. Andrés Weintraub is the very top person in Natural Resource research. Moreover, he has an international reputation in OR and a former president of the International Federation of Operational Research Societies (IFORS). He has selected co-editors who are at the top of the sub-fields in natural resources: agriculture, fisheries, forestry, and mining. The book will cover these areas in terms with contributions from researchers on modeling natural research problems, quantifying data, developing algorithms, and discussing the benefits of research implementations. The handbook will include tutorial contributions when necessary. Throughout the book, technological advances and algorithmic developments that have been driven by natural resource problems will be called out and discussed.

Features
► Natural resources has been an application in numerous Operations Research papers; however, there have been few, if any, books that organizes and discusses the OR models in this area
► First systematic handbook treatment of quantitative models applied to natural resource problems - a handbook that will fill a state of the art need in the international fields of natural resources and environmental engineering

Fields of interest
Operations Research/Decision Theory; Environmental Economics; Environmental Computing/ Environmental Modelling

Target groups
Academic researchers, students, environmental practitioners

Type of publication
Handbook

Due June 2007

2007. Approx. 640 p. (International Series in Operations Research & Management Science, Volume 99) Hardcover

► * **€ (D) 149,75 | € (A) 153,95 | sFr 229,50**
ISBN 978-0-387-71814-9

B. Zinzius, Seminar für Interkulturelle Kommunikation und Internationales Management, München

China-Handbuch für Manager

Kultur, Verhalten und Arbeiten im Reich der Mitte

China ist die Wirtschaftsmacht des 21. Jahrhunderts. Die Wachstumsraten sind imposant und anhaltend, die wirtschaftlichen und sozialen Veränderungen enorm. Immer mehr westliche Firmen gehen in das Reich der Mitte, aber ebenso viele scheitern auch, weil sie Bürokratie, Investitionsmittel oder auch die menschliche Seite eines Chinaaufenthaltes nicht ausreichend bedacht und vorbereitet haben. Das China-Handbuch hilft Managern, sich für kurze Reisen oder auch mehrjährige Chinaaufenthalte auf die Begegnung, Verhandlung oder das Arbeiten mit Chinesen vorzubereiten. Es ist ein unentbehrlicher Begleiter für alle, die beruflich in China oder mit Chinesen zu tun haben, aber auch für diejenigen, die sich für die chinesische Kultur und Mentalität interessieren.

Pluspunkte
► Management-Knigge für China ► Verhalten, Verhandeln, Personalführung, allgemeine Kulturinformationen ► Mit vielen praktischen Beispielen für den geschäftlichen und privaten Umgang mit Chinesen

Inhalt
Kultur - Geschichte - Philosophie - Wirtschaft.- Geschichtlicher Abriss; China eine Gesellschaft im Umbruch; Konfuzianismus; Westliche und östliche Denkweise; Der Fremde - der Barbar; Kiautschou - ein deutscher Irrweg; Nord-Süd-Gefälle; Heimatverbundenheit - Patriotismus; Die Chinesische Diaspora - Brain Gain auf Chinesisch; Mentalität - Traditionen - Riten.- Das Gesicht; Danwei und Nachbarschaftsorganisationen; Die Familie; Alter.

Fachgebiete
Management; Organisation/Planung; Personal

Zielgruppen
Manager, die beruflich in China oder mit Chinesen zu tun haben; Angehörige internationaler Organisationen, Botschaftsangehörige

Kategorie
Fachbuch

Erscheint Juni 2007

2007. XVIII, 196 S. 16 Abb. Geb.

► **€ (D) 34,95 | € (A) 35,93 | sFr 53,50**
ISBN 978-3-540-31315-1

W. H. Boom, University of Rotterdam, The Netherlands; **M. Faure**, University of Maastricht, The Netherlands (Eds.)

Shifts in Compensation between Private and Public Systems

Why have some legal systems abandoned tort law in some areas and replaced it with some form of no-fault compensation scheme or strict liability? What have been the effects? How should we evaluate these 'shifts'? Why have they not been adopted in other countries?
These questions have been the focus of the "Shifts in Compensation" research project and this is the final volume in this series, addressing, on the one hand, the issues relating to 'shifts' in compensation systems at a more general level, and on the other hand, addressing shifts in particular domains. The papers examining the shifts at a more general level provide a framework for the analysis of the various shifts and explain the shifts towards an increasing use of strict liability and no-fault regimes. To what extent shifts in compensation can be explained by insurance markets and their relative flexibility is also dealt with. In addition, shifts in the specific areas of medical mishaps and disasters are also examined.

Features
► Overarching analysis of tort liability and no-fault compensation as related to other shifts in compensation systems ► Brings together lawyers and economists from various jurisdictions thus providing a multidisciplinary approach to tort law and alternative instruments

Fields of interest
Civil Law; International & Foreign Law/Comparative Law; Law and Economics

Target groups
Practising private lawyers, policy-makers in environmental policy, insurers

Type of publication
Collection of essays

SpringerWienNewYork

Due July 2007

2007. Approx. 300 p. (Tort and Insurance Law, Volume 22) Hardcover

► approx. *** € (D) 117,65 | € (A) 120,95 | sFr 180,50**
ISBN 978-3-211-71553-6

I. Christodoulou-Varotsi, Psychiko, Greece; **D. Pentsov**, Geneva, Switzerland

Maritime Work Law Fundamentals: Responsible Shipowners, Reliable Seafarers

This comprehensive compilation which is composed of 86 international and regional instruments on the regulatory framework of maritime work fills a gap by constituting an extensive practical reference tool with fully updated developments and more than 1000 references from international bibliography and case-law. The work is divided into four Chapters each one of which includes both legal instruments and comments: the first one addresses the ILO maritime instruments, including the new consolidated convention on maritime labour of February 2006; the second one addresses major IMO instruments which present an impact on the human element, including the STCW Convention as amended in 1995, the ISM Code and extracts from the ISPS Code; the third one deals with three leading Memoranda of Understanding on Port State Control (Paris MOU, Tokyo MOU and Black-Sea MOU); the fourth one tackles the European Community law on seafarers' protection and shipowners' obligations (including relevant Directives).

Features
► Comprehensive compilation of international (ILO, IMO) and regional (MOUs, EU) instruments on the regulatory framework of maritime work alongside with comments on the instruments practical application

Fields of interest
European Law/Public International Law; International & Foreign Law/Comparative Law

Target groups
International lawyers (both practising and academic), maritime and port authorities, private operators involved in shipping, practitioners and regulators in sectors such as international maritime law, NGOs, social partners, masters and chief mates, marine academies, training centers, reference libraries

Type of publication
Monograph

Due June 2007

2007. Approx. 950 p. Hardcover

► *** € (D) 128,35 | € (A) 131,95 | sFr 197,00**
ISBN 978-3-540-72750-7

D. Coskun, Radboud University of Nijmegen, The Netherlands

Law as Symbolic Form

Ernst Cassirer and the anthropocentric view of law

Jurisprudence, according to Cassirer, is not merely the systematic, conceptual pursuance of ethics. They are separate domains for Cassirer, and both direct their claims differently on the individual. Whereas ethics concerns the motives of the individual, law ultimately achieves a cosmos for our world of outward actions. However, they are not separated by a neutral line or a vacuum. For law to have effect as a symbolic form it is necessary that it reflects the law in the mind of people i.e., that one could and ought to have assented to it out of ethical principles and maxims. The conceptual analysis of law goes hand to hand with its genetic account. Both ethics and law are products of, spring forth from the formative or symbolic powers of man, and although, as any other symbolism, they might confront us as something objective, i.e., as part of reality that is beyond our immediate reach, ultimately we must always bring them to account to their very source: our independent and individual moral judgment.

Features
► Synthesizes a vast amount of current Cassirer-literature and makes a contribution to jurisprudence ► First systematic elaboration on law as a symbolic form ► Sheds new lights on a still dark area of intellectual and jurisprudential thought ► New insights relevant for the Kelsen debate, in particular re the question of legal validity and its foundational underpinning

Fields of interest
Law Theory/Law Philosophy; Interdisciplinary Studies; Philosophy of Law

Target groups
Specialists in the fields of legal theory, legal philosophy, and its history; cassirer-scholarship

Type of publication
Monograph

Due June 2007

2007. Approx. 255 p. (Law and Philosophy Library, Volume 82) Hardcover

► *** € (D) 96,25 | € (A) 98,95 | sFr 147,50**
ISBN 978-1-4020-6255-1

T. Geschwinde, Hanau

Rauschdrogen

Marktformen und Wirkungsweisen

Die Neuauflage trägt den jüngsten Entwicklungen im Drogenbereich – wie Verschiebungen bei den Konsumgewohnheiten und Auftauchen neuer Drogenarten bzw. Varietäten – Rechnung und zeigt mögliche Entwicklungstendenzen auf. Angesichts einer zunehmenden Konsumhäufigkeit wird so nunmehr auch auf als Rauschdrogen missbrauchte Salbeiarten und Absinth eingegangen und damit neben den Alkaloiden ein weiterer Schwerpunkt bei der Wirkstoffgruppe der Terpene im Bereich der biogenen Drogen gesetzt wurde. Die Darstellung des chemischen Aufbaus des Wirkstoffs pharmakologischen Wirksamwerdens der Droge sowie die hierdurch verursachten Auswirkungen auf Körper und Psyche stehen im Mittelpunkt, wobei als Korrektiv eine Einbindung in den jeweiligen historischen Kontext mit aufgenommen ist. Die Darstellung ist auch für den naturwissenschaftlichen Laien verständlich und ermöglicht ihm ein schnelles Erkennen und Einordnen von Drogen und missbrauchten Arzneimitteln als Entscheidungsgrundlage in der Praxis.

Pluspunkte
► Zusammenfassende Darstellung der Wirkungen und der Wirkungsweisen verschiedener Rauschdrogen und als Drogen missbrauchter Arzneimittel, die zugleich einen Vergleich der Übereinstimmung und Unterschiede in den Wirkungsmechanismen ermöglicht
► Ausführliche und dennoch komprimierte Darstellung in Form eines Nachschlagewerkes

Fachgebiete
Medizinrecht; Strafrecht; Psychiatrie

Zielgruppen
Forensische Sachverständige, Universitätsbibliotheken (Pharmazie, Medizin, Jura), Gerichte, Staatsanwaltschaften, Ärzte und Psychologen im Bereich Suchtmedizin und Substitution, Sozialarbeiter (Drogenberatungsstellen) Polizei, EUROPOL

Kategorie
Fachbuch

Erscheint Juli 2007

6., aktualisierte Aufl. 2007. Etwa 950 S. Brosch.

► **€ (D) 109,95 | € (A) 113,04 | sFr 168,50**
ISBN 978-3-540-72044-7

A. Balbi, Università "Tor Vergata", Roma, Italia

La musica del Big Bang

Come la radiazione cosmica di fondo ci ha svelato i segreti dell'universo

La radiazione cosmica di fondo è il residuo del grande calore seguito al Big Bang. Un tenue segnale, vecchio di oltre 13 miliardi di anni, in cui si celano le risposte a molte delle domande sulla natura del nostro Universo. Scoperta casualmente nel 1964, negli ultimi quarant'anni questa traccia fossile delle origini del Cosmo è stata esplorata con ogni mezzo disponibile. Due premi Nobel per la fisica sono già stati assegnati per ricerche che la riguardano, l'ultimo nel 2006 per i risultati del satellite COBE.
Molte delle informazioni codificate nella radiazione cosmica di fondo sono state impresse dal sovrapporsi di onde acustiche presenti nell'Universo primordiale: una „musica" del Big Bang, che i cosmologi hanno tentato per anni di ricostruire, usando tecniche analoghe a quelle che permettono di distinguere il suono di diversi strumenti musicali. Solo di recente le prime note di questa straordinaria sinfonia cosmica sono finalmente state svelate, ma l'indagine non è ancora finita.

Fields of interest
Scienza divulgativa in astronomia; Relatività e cosmologia; Astronomia

Target groups
Appassionati di astronomia; insegnanti e studenti di scuola secondaria, astrofili, laureandi, laureati

Type of publication
Libro di interesse generale

Disponibile

2007. Ca. 240 pagg. (Le Stelle) Brossura

► * **€ (D) 21,55 | € (A) 22,15 | sFr 33,00**
ISBN 978-88-470-0612-6

R. Blasius, ZDF, Mainz; **N. Podbregar**, MMCD, Düsseldorf

Armageddon

Die längste Nacht

In Zusammenarbeit mit: H. Frater, S. Schneider

Das Begleitbuch zur gleichnamigen ZDF-Dokumentation „Armageddon – die längste Nacht" schildert die Hintergründe einer globalen Katastrophe: Vor 65 Millionen Jahren setzte ein Asteroideneinschlag der Herrschaft der Dinosaurier ein Ende. Was aber wäre, wenn ein solcher „Dinokiller" heute auf der Erde einschlagen würde?
Das Buch folgt den Auswirkungen eines solchen Impakts – von den unmittelbaren Folgen des Einschlags bis zu den langfristigen Veränderungen der Tier- und Pflanzenwelt, aber auch der menschlichen Gesellschaft.
Für Laien verständlich und anschaulich, aber dennoch wissenschaftlich fundiert, gibt das Buch einen Einblick in die Erkenntnisse über die Folgen eines Meteoriteneinschlags. Zehn hochrangige internationale Wissenschaftler unterschiedlicher Fachgebiete sind an der Entstehung von Buch und Film beteiligt und kommen in Interviews und Kommentaren zu Wort.

Pluspunkte
► Wissenschaftlich fundiertes Katastrophenszenario ► Allgemeinverständliche Aufbereitung des Themas ► Repräsentative Gestaltung des Buches

Fachgebiete
Sachbuch Natur und Umwelt; Sachbuch Astronomy; Geowissenschaften, allgemein

Zielgruppen
Interessierte Laien, breite Öffentlichkeit, Lehrer, Wissenschaftler, Forscher

Kategorie
Monographie

Erscheint August 2007

2007. Etwa 260 S. Geb.

► **€ (D) 29,95 | € (A) 30,80 | sFr 46,00**
ISBN 978-3-540-37656-9

N. Kanas, University of California, San Francisco, CA, USA

Star Maps

History, Artistry, and Cartography

This book traces the history of celestial cartography and relates this history to the changing ideas of man's place in the universe and to advances in map-making. Photographs from actual antiquarian celestial atlases and prints, many previously unpublished, enrich the text, and a legend accompanies each illustration to explain its astronomical and cartographic features. Also included in the book are discussions of non-European celestial maps and chapters on early American influences and celestial map-collecting.
With the construction of the International Space Station, and new plans for manned missions to the Moon, Mars and beyond, there is renewed interest in the heavens. An ever-increasing number of people are fascinated with the science of space and are becoming amateur astronomers.

Features
► Focuses on the history of celestial cartography from ancient to modern times ► Describes the development and relationships between different sky maps and atlases ► Demonstrates contemporary cosmological ideas, constellation representations, and cartographic advances ► Contains unique material on early American influences and collecting celestial maps and prints

Fields of interest
Popular Science in Astronomy; Astronomy; Astronomy, Astrophysics and Cosmology

Target groups
Popular science readers including amateur and professional astronomers, amateur map collectors and professional cartographers, astronomy enthusiasts, undergraduates and postgraduates interested in the history of science, cartography, geography, philosophy and art history

Type of publication
Popular science

PRAXIS

Due August 2007

Jointly published with Praxis Publishing, UK

2007. Approx. 400 p. 60 illus. (Springer Praxis Books / Popular Astronomy) Softcover

► * **€ (D) 28,84 | € (A) 29,65 | sFr 44,50**
ISBN 978-0-387-71668-8

K. Mainzer, University of Augsburg, Germany

Thinking in Complexity

The Computational Dynamics of Matter, Mind, and Mankind

The theory of nonlinear, complex systems has become by now a proven problem-solving approach in the natural sciences. And it is now also recognized that many if not most of our social, ecological, economical and political problems are essentially of a global, complex and nonlinear nature. And it is now further accepted than any holistic perspective of the human mind and brain can hardly be achieved by any other approach. In this wide-ranging, scholarly but very concise treatment, physicist, computer scientist and philosopher Klaus Mainzer discusses, in essentially nontechnical language, the common framework behind these ideas and challenges. Emphasis is given to the evolution of new structures in natural and cultural systems and we are lead to see clearly how the new integrative approach can give insights not available from traditional reductionistic methods. The fifth edition enlarges and revises almost all sections and supplements an entirely new chapter on the complexity of economic systems.

Features
► The renowned scientist and philosopher Klaus Mainzer combines skillfully elements from the history and philosophy of sciences with modern problem solving approaches to the ever growing list of systems in the widest sense, where the more traditional reductionist and deterministic approaches fail

From the contents
Introduction: From Linear to Nonlinear Thinking.- Complex Systems and the Evolution of Matter.- Complex Systems and the Evolution of Life.- Complex Systems and the Evolution of Mind-Brain.- Complex Systems and the Evolution of Artificial Life and Intelligence.

Fields of interest
Popular Science in Mathematics/Natural Science/ Technology; Complexity; Philosophy

Target groups
Everyone interested in complexity at the scientific and philosophical level

Type of publication
Popular science

Due August 2007

5th rev. and enlarged ed. 2007. Approx. 530 p. Hardcover

► * **€ (D) 53,45 | € (A) 54,95 | sFr 82,00**
ISBN 978-3-540-72227-4

P. Norris, LogicaCMG, Leatherhead, UK

Spies in the Sky

Surveillance Satellites in War and Peace

In Spies in the Sky Patrick Norris responds to the occasion of the 50th Anniversary of the dawn of the Space Age – the launch of Sputnik 1 – with a review of the most important historical applications of space science for the benefit of the human race during that half century, focusing particularly on the prevention of nuclear war. The author addresses the oft quoted conclusion that the Moon landings and the 'race to the Moon' between the two superpowers were a side effect of the Cold War, by describing what he believes was the more important event – the use of satellites by military to prevent the Cold War becoming a 'hot war'. In developing the story the author casts a spotlight on a little-known aspect of the Space Age, namely the military dimension. Today military satellites represent 25 percent of all satellites in orbit, and they are just as important now in preventing regional nuclear war as they were in preventing global Armageddon more than 30 years ago.

Features
► Tells the story of the single most important contribution which satellites have made to humankind in the 50 years since the launch of Sputnik 1 ► Provides a different approach to the anniversary of the dawn of the Space Age to existing books ► Focuses on a little-known aspect of the Space Age, namely the military dimension ► Combines history, politics, defence studies, science, technology and human interest in a novel way

Fields of interest
Popular Science in Astronomy; Extraterrestrial Physics, Space Sciences;

Target groups
Popular science and spaceflight enthusiasts

Type of publication
Popular science

Due September 2007

Jointly published with Praxis Publishing, UK

2007. Approx. 224 p. 20 illus. (Springer Praxis Books / Space Exploration) Softcover

► approx. * **€ (D) 28,84 | € (A) 29,65 | sFr 44,50**
ISBN 978-0-387-71672-5

M. Ratcliffe, Valley Center, KS, USA

State of the Universe 2008

New Images, Discoveries and Events

The aim of the State of the Universe annuals is to provide an annual astronomy review suitable for the popular science level reader to be published every September in a format that will be suitable for, and appeal to, the Christmas market. The book will cover all major astronomical news on topics beyond the Solar System and place them in the context of the longer term goals of astronomers and astrophysicists around the world. The aim is to capture the excitement and vibrancy of modern astronomical research. This section also includes web links for all major news stories, providing a bridge between the public news stories and the actual research web sites.
The invited contributions which make up the second half of the annual each year will cover a variety of topics and are written to appeal to a wide readership. These are written by leading astronomers or science writers.

Features
► First regular annual to review each year's major astronomical discoveries ► Written at an accessible level for both young and older astronomy enthusiasts ► Details discoveries in astronomy, astrophysics and cosmology from all the world's leading ground based and orbiting observatories ► Enables the reader to stay up to date with the rapid pace and development of modern astronomical research

Fields of interest
Popular Science in Astronomy; Astronomy, Astrophysics and Cosmology; Astronomy

Target groups
Amateur astronomers, space enthusiasts; the general reader who wants to keep up to date with the latest discoveries in astronomy in a non-technical, highly readable format

Type of publication
Popular science

Due November 2007

Jointly published with Praxis Publishing, UK

2007. Approx. 190 p. (Springer Praxis Books / Popular Astronomy) Hardcover

► approx. * **€ (D) 22,47 | € (A) 23,10 | sFr 34,50**
ISBN 978-0-387-71674-9

C. Simhandl, **K. Mitterwachauer**, Krankenhaus Neunkirchen, Österreich

Depression und Manie

Erkennen und erfolgreich behandeln

Jeder Mensch kennt Stimmungsschwankungen wie Phasen der Traurigkeit, Niedergeschlagenheit, der Euphorie und fehlender Lebensfreude. Die Übergänge von der normalen Entwicklung zur behandlungsbedürftigen Störung sind fließend. Ein Handlungsbedarf entsteht, wenn die Stimmungsveränderungen länger anhalten und die Betroffenen oder Angehörigen sich in ihrem Erleben oder Funktionierem im Alltag beeinträchtigt fühlen. Die behutsame und stetige Auseinandersetzung mit der Erkrankung ist ein Prozess, der seine Zeit und vielleicht auch mehrere Krankheitsepisoden braucht. Dieses Buch für Betroffene soll keinesfalls das ärztliche Gespräch ersetzen, sondern zu einem besseren Basiswissen über Stimmungsschwankungen, über mögliche therapeutische Ansätze und Veränderung von Lebensgewohnheiten beitragen. Obwohl wir bis heute nicht wissen, was dieses Leiden letztendlich verursacht, sind Betroffene und deren Angehörige diesen Stimmungsschwankungen nicht länger ausgeliefert und können den weiteren Verlauf sehr gut mitgestalten.

Pluspunkte
► Verständliche und einfühlsame Darstellung ► Moderne Diagnostik- und Therapiemöglichkeiten ► Hinweise zur Selbsthilfe und für Angehörige ► Serviceteil

Fachgebiete
Sachbuch Medizin und Gesundheit; Psychologisches Sachbuch; Psychiatrie

Zielgruppen
Betroffene, Angehörige, Ärzte, Betreuer

Kategorie
Sachbuch

SpringerWienNewYork

Lieferbar

Angezeigt in Highlights 01/2007

2007. XIV, 150 S. 7 Abb. Brosch.

► **€ (D) 24,95 | € (A) 24,95 | sFr 38,50**
ISBN 978-3-211-48642-9

P. Ulivi, **D. M. Harland**

Robotic Exploration of the Solar System

Part I: The Golden Age 1957-1982

Paolo Ulivi and David Harland provide in Robotic Exploration of the Solar System a detailed history of unmanned missions of exploration of our Solar System. As in their previous book Lunar Exploration, the subject will be treated wherever possible from an engineering and scientific standpoint. Technical descriptions of the spacecraft, of their mission designs and of instrumentations will be provided. Scientific results will be discussed in considerable depth, together with details of mission management. The book will be comprehensive, covering missions and results from the 1950s until the present day, and some of the latest missions and their results will appear in a popular science book for the first time. The authors will also cover many unflown missions, providing an indication of the ideas that proved to be unfulfilled at the time but which may still be proven and useful in the future.

Contents
Introduction.- The Beginning.- Landers and Orbiters.- The Grandest Tour.- Glossary.- Acronyms.- Bibliography.

Fields of interest
Popular Science in Astronomy; Extraterrestrial Physics, Space Sciences

Target groups
Space science and exploration enthusiasts, space historians, students and engineers

Type of publication
Popular science

PRAXIS

Due October 2007

Only available in print

Jointly published with Praxis Publishing, UK

2007. Approx. 400 p. (Springer Praxis Books / Space Exploration) Softcover

► approx. * **€ (D) 32,96 | € (A) 33,88 | sFr 50,50**
ISBN 978-0-387-49326-8

D. N. Aspin, Monash University, Melbourne, VIC, Australia (Ed.)

Philosophical Perspectives on Lifelong Learning

The aim of this book is provide an easily accessible, practical yet scholarly source of information about the international concern for the philosophy, theory, categories and concepts of lifelong learning. The books is concerned to examine in depth the range of philosophical perspectives in the field of lifelong learning theory, policy, practice and applied scholarship, extending the scale and scope of the substantive contribution made by philosophical and theoretical approaches to our understanding of education. The book seeks to make an informed contribution to shaping, expanding and deepening people's understanding the direction of future developments in educational institutions of all kinds preparing for, providing and delivering lifelong learning in all kinds of formal informal and alternative education institutions, agencies and organizations, and their various approaches, policies, practices and processes in the twenty-first century.

Features
► Only recent philosophy book devoted to a range of perspectives in the philosophy, theory, values, principles and policies of Lifelong Learning ► Written by a range of international authorities in the fields of educational philosophy and lifelong learning ► Suitable for policy-makers, academics, teachers and students of Lifelong Learning ► A work on the theory of lifelong learning, with implications for policy

Fields of interest
Educational Policy; Sociology of Education; Educational Philosophy

Target groups
Professors, lecturers and academics, teaching courses in philosophy of education, philosophy, educational theory, the theory of lifelong learning, in teacher education and in curriculum studies; undergraduate and postgraduate students

Type of publication
Contributed volume

Due July 2007

2007. Approx. 325 p. (Lifelong Learning Book Series, Volume 11) Hardcover

► * **€ (D) 128,35 | € (A) 131,95 | sFr 197,00**
ISBN 978-1-4020-6192-9

J. A. Athanasou, University of Technology, Sydney, NSW, Australia; **R. Van Esbroeck**, Vrije Universiteit Brussel, Belgium (Eds.)

International Handbook of Career Guidance

The International Handbook of Career Guidance is the first international reference of its type on career guidance. This two-volume handbook offers a comprehensive review of the field, covering not only the background of vocational guidance but also the key issues across career guidance policy, processes, practices and procedures. The range of contributions from more than 30 leading authorities in the field also offers valuable directions for future research. The Handbook covers subjects such as educational and vocational guidance in a social context; theoretical foundations; educational and vocational guidance in practice; specific target groups; testing and assessment; and evaluation. It draws upon a wide range of career guidance paradigms and theoretical perspectives from person-environment fit, through developmental, to narrative and constructivist as well as critical theory approaches.

Features
► Covers key issues across career guidance policy, processes, practices and procedures ► Contributions from more than 30 leading authorities in the field ► Offers valuable directions for future research ► Draws upon a wide range of career guidance paradigms and theoretical perspectives

From the contents
Introduction.- Part 1. Educational and Vocational Guidance in a Social Context.- Part 2. Theoretical Foundations.- Part 3. Educational and Vocational Guidance in Practice.- Part 4. Educational and Vocational Guidance with Specific Target Groups.- Part 5. Testing and Assessment in Educational and Vocational Guidance.- Part 6. Evaluation of Educational and Vocational Guidance.- Index.

Fields of interest
Vocational Education; Testing and Evaluation; Educational Policy

Target groups
Academics in education, psychology; guidance and counselling institutes; government departments; libraries: reference collection; career development professionals

Type of publication
Handbook

Due June 2008

2008. Approx. 1000 p. Hardcover

► approx. * **€ (D) 481,50 | € (A) 495,00 | sFr 737,50**
ISBN 978-1-4020-6229-2

J. K. Gilbert, University of Reading, UK (Ed.)

Visualization in Science Education

"Visualization in Science Education" draws on the insights from cognitive psychology, science, and education, by experts from Australia, Israel, Slovenia, UK, and USA. It unites these with the practice of science education, particularly the ever-increasing use of computer-managed modelling packages, especially in chemistry. The first section explores the significance and intellectual standing of visualization. The second section shows how the skills of visualization have been developed practically in science education. This is followed by accounts of how the educational value of visualization has been integrated into university courses in physics, genomics, and geology. The fourth section documents experimental work on the classroom assessment of visualization. An endpiece summarises some of the research and development needed if the contribution of this set of universal skills is to be fully exploited at all levels and in all science subjects.

Features
► Broad intellectual basis: science, science education, psychology, philosophy ► Theory and practice closely integrated ► Authors who are active at the frontiers of the field ► Authors from 5 countries ► First book specifically on visualization in science education

From the contents
Introduction.- Section A: The significance of visualization in science education.- Section B: Developing the skills of visualization.- Section C: Integrating visualization into curricula in the sciences.- Section D: Assessing the development of visualization skills.- Endpiece.- Future research and development on visualization in science education.

Field of interest
Science Education

Target groups
Teachers, students, researchers

Type of publication
Contributed volume

Available

2007. XXXIX, 346 p. (Models and Modeling in Science Education, Volume 1) Softcover

► * **€ (D) 53,45 | € (A) 54,95 | sFr 82,00**
ISBN 978-1-4020-5882-0

R. Maclean, UNESCO-UNEVOC International Centre for Education, Bonn, Germany (Ed.)

Learning and Teaching for the Twenty-first Century

Festschrift for Professor Phillip Hughes

This book stresses learning and teaching, rather than teaching and learning. The contention of the contributors is that the focus in all educational endeavours should not be primarily on teachers and teaching, but on learners; how to best facilitate learning, in the most effective, enjoyable, relevant and cost-effective ways for learners, whether they be children, youth or adults. The focus is therefore on how learning can be enhanced, through effective teaching; and how individuals can be best prepared to be excellent teachers.
This ground-breaking book examines the personal dimensions of learning and teaching, and various aspects of education reform. It particularly focuses on the situation in the Asia-Pacific region, yet draws on best and innovative practices from the international arena. The book brings together the thoughts and insights offered by international leaders in the fields of teaching and learning. It seeks to build a bridge between researchers, policy makers and practitioners.

Features
► Brings together the thoughts and insights offered by international leaders in the fields of teaching and learning ► Seeks to create a bridge between researchers, policy makers and practitioners, who, instead of 'talking past each other' dialogue in productive ways to identify future pathways for promoting effective learning and teaching in the twenty-first century

Fields of interest
Instruction and Learning; Teacher Education; Education (general)

Target groups
Researchers, policy makers, practitioners, curriculum writers, teacher educators, and teachers

Type of publication
Contributed volume

Due July 2007

2007. Approx. 300 p. Hardcover

► approx. *** € (D) 123,05 | € (A) 126,50 | sFr 188,50**
ISBN 978-1-4020-5772-4

W. Roth, **L. Pozzer-Ardenghi**, University of Victoria, BC,Canada; **J. Y. Han**, Seoul National University, Korea

Critical Graphicacy

Understanding Visual Representation Practices in School Science

School science is dominated by textbook-oriented approaches to teaching and learning. Some surveys reveal that students have to read, depending on academic level, between ten and thirty-six pages per week from their textbook. One therefore has to ask, To what degree do textbooks introduce students to the literary practices of their domain? Few studies have addressed the quality of science curriculum materials, particularly textbooks, from a critical perspective. In this light, we are concerned in this book with better understanding the reading and interpretation practices related to visual materials - here referred to as inscriptions - that accompany texts. Our overarching questions included: 'What practices are required for reading inscriptions?' and 'Do textbooks allow students to develop levels of graphicacy required to critically read scientific texts?'.

Features
► Leading text in the field, there are no other books of this kind ► Relevant to researchers, educators, and teachers ► Suitable for use in classes concerned with visual representation practices and textbooks in science

Contents
Preface.- Introduction.- 1 Toward a critical graphicacy.- 2 The work of reading graphs.- 3 Graphicacy and context.- 4 Photographs in biology texts.- 5 Graphicacy in lectures.- 6 Interpretive graphicacy in practice.- 7 The work of reading layered inscriptions.- 8 Semiotics of chemical inscriptions.- 9 Reading layered dynamic inscription.- Epilogue: Steps toward a critical graphicacy.- Notes.- References.- Index.- About the authors.

Fields of interest
Science Education

Target groups
Science teachers, science teacher educators, graduate students, and professors

Type of publication
Monograph

Available

2007. XXVIII, 285 p. (Science & Technology Education Library, Volume 26) Softcover

► *** € (D) 53,45 | € (A) 54,95 | sFr 82,00**
ISBN 978-1-4020-5711-3

J. G. Bruhn, New Mexico State University, Las Cruces, NM, USA; **H. Rebach**, University of Maryland, Salisbury, MD, USA

Sociological Practice

Intervention and Social Change

The first edition of Clinical Sociology was published in 1996. Its goal was to explore various approaches to problem-solving at the micro, meso, and macro levels of social complexity. Clinical sociology (or sociological practice) is the practice of using sociological principles to help groups of people with their difficulties (this application can also be found in social work).
The authors and many of their colleagues have used the first edition for the past several years as an introduction to the discipline at the graduate (or upper-level undergraduate) level class. Based on their own experiences and the recommendations/feedback from other professors, the authors have gone about making additions, deletions and updates to this classic clinical sociology text book.

Features
► The well-respected first edition of this classic book on clinical sociology has been thoroughly updated and revised in this second edition ► Incorporates new case studies based on the authors' experiences ► 1 completely new chapter

Contents
Introduction: The Application of Sociology.- Approaches to Problem-Solving.- Problem-Solving at the Micro-Level.- Problem-Solving at the Meso-Level.- Problem-Solving at the Macro-Level.- Multi-Level Problem-Solving.- Program Evaluation.- Values and Sociological Intervention.- Glossary.- Index.

Fields of interest
Sociology; Social Work

Target groups
Clinical sociologists, and those teaching graduate level classes in clinical sociology; those in social work and other areas of sociology that are applied

Type of publication
Professional book

Due September 2007

2nd ed. 2007. Approx. 350 p. Hardcover

► approx. *** € (D) 102,99 | € (A) 105,88 | sFr 158,00**
ISBN 978-0-387-71863-7

J. Connor, Australian National University, Canberra, ACT, Australia

The Sociology of Loyalty

The sociology of emotions is currently a significant field of research but loyalty has not been addressed directly by emotions theorists. This proposed book would take the concept of loyalty (What is loyalty? How does it fit into the study of emotions? What are the different types of loyalty? etc.) and place it in the sociology of emotions field.
By drawing on current theorists, current and historical examples (including the areas of family, nation, sports, etc.) the book clearly establishes the components of loyalty and its place with in the theories of emotion. Additionally it develops the theoretical understanding of emotions by taking a previously ignored – yet highly topical – emotion and placing it within the theoretical perspective. Specifically, this book explains loyalties: why we have them and what they do for us and society. It also places loyalty into the study of emotions such as trust and shame.

Features
► The field of loyalty has not been addressed directly by emotions theorists though it is an attractive subject for researchers in a variety of fields, including sociology, psychology, business and economics ► Explains loyalties: why we have them and what they do for us and society
► Incorporates contemporary as well as historical examples

Contents
Introduction.- Loyalty and Theories of Emotion.- Elements of Loyalty.- Family Loyalty.- National Loyalty.- Sport and Loyalty.- Cultural Loyalty.- Conclusion.- Epilogue.

Field of interest
Sociology

Target groups
Professionals and researchers in the disciplines of sociology, psychology, business and economics

Type of publication
Monograph

Due November 2007

2007. Approx. 306 p. Hardcover

► approx. *** € (D) 70,03 | € (A) 72,00 | sFr 107,50**
ISBN 978-0-387-71367-0

A. H. Gauthier, University of Calgary, AB, Canada; **C. C. Chu**, Academia Sinica, Taipei, Taiwan; **S. Tuljapurkar**, Stanford University, CA, USA (Eds.)

Allocating Public and Private Resources across Generations

Riding the Age Waves - Volume 2

In rapidly industrializing countries, demographic changes continue to have significant effects on the well-being of individuals and families, and as aggregate human and financial capital. These effects may be analyzed in terms of intergenerational transfers of time, money, goods, and services. The chapters in this volume greatly develop our understanding of the nature and measurement of transfers, their motives and mechanisms, and their macro-level dimensions, especially in the context of demographic transitions.
The chapters include original empirical analyses of datasets from some twenty countries taking the reader beyond the American context in order to test the applicability of some of the theories developed on the basis of American data. They extend the traditional analysis of inter-generational transfers by examining different types of transfers, namely goods, money, assets, time, co-residence and visits.

Features
► Examines the issue of intergenerational transfers across a wide range of countries ► Allows us to test the applicability of some of the theories developed on the basis of American data to other social, political and economic contexts ► Extends the traditional analysis of inter-generational transfers by examining different types of transfers, namely goods, money, assets, time, co-residence and visits

Fields of interest
Demography; Social Sciences, general; Aging

Target groups
Demographers, public policy researchers and analysts, economists, sociologists, strategic planners

Type of publication
Contributed volume

Due June 2007

2007. Approx. 320 p. (International Studies in Population, Volume 3) Softcover

► * **€ (D) 53,45 | € (A) 54,95 | sFr 82,00**
ISBN 978-1-4020-4790-9

L. Kowaleski-Jones, University of Utah, Salt Lake City, UT, USA; **N. H. Wolfinger**, University of Utah, Salt Lake City, UT, USA (Eds.)

Fragile Families and the Marriage Agenda

Many people see government involvement in family policy as a response to popular concerns that the American family is in a state of crisis. One of the primary concerns with "fragile" families (one parent – usually mother) is economic: Poverty rates for single mothers are several times that of two-parent families. Economic deprivation while growing up has been linked to poor physical health, reduced intellectual ability and academic achievement.
Some social sciences contend that marriage is the solution to many of the problems associated with single-parent families. Other experts believe that government programs designed to raise marriage rates may cause more problems than they solve (i.e. domestic violence, divorce, etc.).
The proposed volume will explore issues related to fragile families from many different perspectives on the causes and consequences of this issue.

Features
► Offers timely research about one of the most important public policy initiatives related to family well-being in recent years ► Poised at the edge of an important and uncharted policy experiment, this book sheds light on the debate about family policies' ultimate effects on family well-being ► Offers sound scientific knowledge and reasoned review of the information that should guide policy activity in this important area

Fields of interest
Sociology

Target groups
Sociologists and psychologists working with family studies are the main target group for this book, policy makers, policy analysts, and family advocates in the public, private and non-profit sectors

Type of publication
Professional book

Due July 2007

1st ed. 2006. 2nd printing 2007. Approx. 250 p. Softcover

► approx. *** € (D) 37,08 | € (A) 38,12 | sFr 57,00**
ISBN 978-0-387-68172-6

S. Lee, University of Hull, UK; **S. McBride**, Simon Fraser University, Vancouver, Canada

Neo-Liberalism, State Power and Global Governance

The volume explores the relationship between neo-liberalism, state power and global governance. Part One explores the pattern of national differences in the exercise of state power in a variety of industrialized and developing economies, despite the pressure to converge towards the dominant neo-liberal paradigm. Part Two analyses a variety of trans-national policy prescriptions for neo-liberalism and state power. Part Three explores whether the governance of labour markets is a special case in the global economy. Part Four sets out the need for institutional reform of the neo-liberal order in trade and finance. The volume concludes that there is the prospect of a more plural approach to state power and global governance, and one that recognizes the importance of the public domain of citizenship for delivering the global public goods of security, prosperity and environmental sustainability in the twenty-first century.

Features
► Provides in a single volume an evaluation of neo-liberalism as a basis for state power
► Provides in a single volume an evaluation of neo-liberalism as a basis for global governance
► Provides concise case studies of North American, European and emergent market economies

From the contents
Introduction.- Part I. National Differences in the Face of Pressures to Converge.- Part II. Transnational Policy Prescriptions.- Part III. Labour: A Special Case in the Global Economy?- Part IV. The Need for Reform.- Conclusion: The Need to Rebuild the Public Domain.

Fields of interest
Political Science; Economic Policy; Political Philosophy

Target groups
Undergraduate or postgraduate students taking modules in politics and international relations, and seeking an introduction to the theory and impact of neo-liberalism upon state power and global governance; and the general reader interested in globalization and its impact upon the role of the state

Type of publication
Contributed volume

Due June 2007

2007. Approx. 275 p. Hardcover

► * **€ (D) 112,30 | € (A) 115,45 | sFr 172,00**
ISBN 978-1-4020-6219-3

E. Pajo, University of California, Irvine, CA, USA

International Migration, Social Demotion, and Imagined Advancement

An Ethnography of Socioglobal Mobility

Contemporary migration involves a dramatic paradox. Although much of what is considered international or transnational migration today transforms people of a wide range of social standings in the emigration countries into laborers at the bottom social and economic ranks of the immigration countries, millions of individuals worldwide seek to migrate internationally. International Migration, Social Demotion, and Imagined Advancement argues that this paradox cannot be explained for as long as common preconceptions about immigrants' economic betterment thwart even questioning why individuals who are not threatened by famine or war willingly pursue their demotion abroad. Recognizing immigrants' decline as such, this book proposes viewing contemporary migration as socioglobal mobility.

Features
► One of the first studies to look at the negative results of migration ► An ethnographic study focusing on Albanian migrants in Greece and Italy ► Discusses the reasons people leave their homeland for a "better life" - especially if that does not happen

From the contents
International migration as socioglobal mobility.- A preliminary portrait of The Albanian emigration.- Ethnography and the discursive scape.- Portrait of Lumturi F., high school teacher, domestic cleaner, kitchen help, maid.- Greece is better than Albania.- Portrait of Petraq Z., research scientist, plumber's aide, maker of icon frames, champion of capitalism.- Sufferings of the soul.- Portrait of Fatmir R., high school principal, democrat, janitor, maintenance technician, contemporary citizen.

Fields of interest
Sociology; Migration; Labor Economics

Target groups
Social scientists, sociologists, anthropologists, demographers; economists studying the effects of migration and those using ethnography in their research

Type of publication
Monograph

Due December 2007

2008. Approx. 235 p. Hardcover

► approx. *** € (D) 53,55 | € (A) 55,06 | sFr 82,00**
ISBN 978-0-387-71952-8

T. D. Price, University of Wisconsin, Madison, WI, USA; **G. M. Feinman**, Field Museum, Chicago, IL, USA (Eds.)

Archaeology at the Millennium

A Sourcebook

An internationally distinguished roster of contributors considers the state of the art of the discipline of archaeology at the turn of the 21st century and charts an ambitious agenda for the future. The chapters address a wide range of topics including paradigms, practice, and relevance of the discipline; paleoanthropology; fully modern humans; holocene hunter-gatherers; the transition to food and craft production; social inequality; warfare; state and empire formation; and the uneasy relationship between classical and anthropological archaeology.

Features
► Written by world-renowned archaeologists ► Each chapter discusses the hot topics in turn-of-the-millennium archaeology ► Suitable for advanced archaeology courses

Contents
Foreword.- Archaeology at the Millennium: Of Paradigms and Practice.- An Aspect of Archaeology's Recent Past and Its Relevance in the New Millennium.- Paleoanthropology at the Millennium.- Fully Modern Humans.- Holocene Hunter-Gatherers.- The Transition to Food Production.- Richman, Poorman, Beggarman, Chief: The Dynamics of Social Inequality.- Craft Production Systems.- Warfare and the Evolution of Culture.- Understanding Ancient State Societies in the Old World.- State Formation in the New World.- Classical Archaeology and Anthropological Archaeology in North America: A Meeting of Minds at the Millennium.- Empires.- The Archaeology of the Future.

Fields of interest
Archaeology; Anthropology

Target groups
Advanced archaeology courses

Type of publication
Contributed volume

Due September 2007

2007. 528 p. Softcover

► approx. *** € (D) 57,67 | € (A) 59,29 | sFr 88,50**
ISBN 978-0-387-72610-6

E. Reitz, **C. M. Scarry**, **S. J. Scudder** (Eds.)

Case Studies in Environmental Archaeology

Features
► Both editions of this title focus on interpreting environmental data rather than methodological discussions ► Uses case studies to resolve questions related to human behavior in the past rather than to demonstrate the application of methods ► Features comprehensive flora and fauna index

From the contents
Preface.- Acknowledgments.- List of Figures.- List of Tables.- 1. Introduction to Environmental Archaeology.- 2. Factors Affecting the Composition of an Assemblage (New Chapter).- 3. Research Designs and Field Methods (New Chapter).- 4. Classification and Nomenclature (New Chapter).- 5. Sediments and Soils (Update).- 6. Seeds, Fruits, Nuts, and Tubers (Update).- 7. Wood and Charcoal (Update).- 8. Pollen (Update).- 9. Phytoliths, Starch Grains, and Spores (Reorganized from other Chapters).- 10. Micro-organisms (Update).- 11. Arthropods: spiders and mites, fleas, chironomids, lice, beetles, rickettsiae, ostracods, nematode worms, crabs, shrimp, (Update).- 12. Echinoderms and Molluscs (Update).- 13. Vertebrate Bones and Teeth (Substantially Revise).- 14. Other Vertebrate Tissues (New Chapter).- 15. Stable Isotopes, Trace Elements, Ancient Genetics, and Enzymes (New Chapter).- 16. Conclusion (New Chapter).-

Field of interest
Archaeology

Target groups
Archaeologists, both academic and professional working with environmental archaeology but also paleoethnobotanists, human ecologists along with resource managers and policy makers involved with historical/cultural sites

Type of publication
Contributed volume

Due December 2007

2nd ed. 2008. Approx. 400 p. (Interdisciplinary Contributions to Archaeology) Hardcover

► approx. *** € (D) 107,11 | € (A) 110,11 | sFr 164,00**
ISBN 978-0-387-71302-1

H. Rodriguez, **R. Saenz**, **C. Menjivar** (Eds.)

Latino/as in the United States

Changing the Face of America

Features
► Unique from extant books that have focused on the Latino/a population ► Goes beyond the traditional approach of only focusing on the largest Latino/a groups ► Has a multidisciplinary focus, which includes the collaboration and contributions of scholars from a diverse number of disciplines

From the contents
Part A: Introduction.- Latinos/as in the United States: An Overview.- Theoretical, Methodological, and Research Issues and Implications in the Study of the Latino population in the US.- Part B: Immigration and its Impact on Latino/as in the United States.- Part C: The Social Demography of Latino/as.- Demographic Patterns.- Part D: Latino/a Culture.- The Latino Culture.- The Politics of Language.- Cultural Production and the Arts.- Sports in the Latino/a and the American Context.- Part E: The Expanding Borders of Latino/as.- Globalization and Its Impact on the Latino/a Community.- Part F: Building and Sustaining Latino/a Communities.- The Public Sociology of Latina/os: A Historical Perspective.- Unions and Unionization of Latino/as Part G: Final Thoughts on the Future of Latina/os in the United States.- Growth of the Influence of Latino/as in the US.- Summary and Conclusions.

Fields of interest
Sociology; Cross Cultural Psychology

Target groups
Researchers and those teaching courses in Latino studies in different academic departments – sociology, political science, economics, anthropology, history, geography and ethnic/racial studies programs are the primary audience for this sourcebook; Professional Organizations: Latino/a Section of ASA; Latin American Studies Association (LASA); National Association for Chicano/a Studies (NACS); Puerto Rican Studies Association (PRSA); National Association for Ethnic Studies (NAES); American Political Science Association (APSA); American Education Research Association (AERA)

Type of publication
Professional book

Due January 2008

2008. Approx. 650 p. 50 illus. Hardcover

► approx. *** € (D) 152,42 | € (A) 156,70 | sFr 233,50**
ISBN 978-0-387-71941-2

C. Roggeband, **B. Klandermans**, Free University, Amsterdam, The Netherlands (Eds.)

Handbook of Social Movements Across Disciplines

Researchers and students from divergent academic disciplines share an interest in the study of social movements and collective action. Through a variety of disciplinary approaches and techniques, researchers seek to understand the emergence and development of collective action. In the last few decades, the field of social-movements-studies has proliferated enormously, covering a wide array of movements, issues and places. With this growth, social movement scholars have criticized the traditional vision of collective mobilization as the results of irrational behavior and have instead developed a range of new approaches. The expansion of the field has also led to increased theoretical debates and attempts to synthesize the different perspectives. But these attempts have met with the obstacle of the field being multidisciplinary. Discussing a theory from many areas of research can lead to misunderstandings.

Features
► Provides a comprehensive guide that includes all the major disciplines ► Discusses each new one and what it brings to the cross-disciplinary research ► Provides updated data on social movements from each discipline discussed

Contents
Introduction: Richness of Perspectives.- Disciplinary Approaches to Collective Behavior.- Political Science: The Political Behavior of Social Movements: Movement Strategies.- How Political Structures Affect Mobilization Patterns.- Sociology: Structuralist chapter.- Culturalist chapter.- Social Psychology: Why and Whom: Motivation.- Collective Identity.- Interaction within Movements.- Anthropology: Culture and Movements: How Culture Affects Movements.- Social Movement (sub)cultures.

Fields of interest
Sociology

Target groups
Researchers, students, and professionals

Type of publication
Professional book

Due August 2007

2007. Approx. 685 p. (Handbooks of Sociology and Social Research) Cloth bound

► * **€ (D) 165,80 | € (A) 170,45 | sFr 254,00**
ISBN 978-0-387-70959-8

H. Silverman, **D. F. Ruggles**, University of Illinois at Urbana-Champaign, IL, USA (Eds.)

Cultural Heritage and Human Rights

In today's world, there seems to be no corner of the world that has not been affected by globalization – for good and for bad. While the world becomes more hegemonized socially and culturally, local communities are fighting to preserve their way of life as part of their heritage. Travel and cultural institutions use this "uniqueness" to promote travel and tourism; and while this brings in revenue and exposure, cultural heritage sites that were preserved by virtue of their isolation are now being severely damaged and even destroyed. At the same time, there is a growing awareness that while this unique heritage is used to define a community, society or nation, it also can be a basis for conflict. The volume addresses a deeply political aspect of heritage preservation and management as it relates to human rights. Social and community advocates assert that heritage is necessary for the articulation and preservation of cultural identity.

Features
► One of the first international volumes looking at how globalization has affected cultural heritage ► Archaeologists and those involved with cultural heritage will find this and subsequent volumes of interest for its research being conducted and actual cases around the world in an "at risk" stage ► For the researcher, institution and practitioner in this interdisciplinary area of work

From the contents
Historical Disruptions: Reproducing an Indian Past in Latin America.- Indigenous People and Resistance to Public Heritage Commemoration of Their Pasts.- Buried Alive: Imagining Africa in the Brazilian Northeast.- Transnational Diasporas and Heritage: Who Has Rights to What Where?.- Wagging the Dog: Archaeology as a Positive Political Force in Kyrgyzstan, Central Asia.

Fields of interest
Archaeology; Cultural Heritage; Regional and Cultural Studies

Target groups
Archaeologists, cultural heritage managers, museum curators, public policy makers, preservationists and conservationists working for public and private organizations

Type of publication
Contributed volume

Due October 2007

2007. Approx. 240 p. 19 illus. Hardcover

► * **€ (D) 82,34 | € (A) 84,65 | sFr 126,50**
ISBN 978-0-387-71312-0

S. South, University of South Carolina, Columbia, SC, USA

An Archaeological Evolution

Stanley South has been a leading figure not only in historical archaeology but also in anthropological archaeology. His work (both past and present) has put him in the forefront of monumental changes in American archaeology in the last 40 years. His personal perseverance in field archaeology has also been an inspiration to new and burgeoning archaeologists and anthropologists. An Archaeological Evolution is a personal recounting of his life, played out among some of the most important debates and movements in archaeology starting in the 1960s up to the 21st century. This seminal volume will be of interest to archaeologists (both professional and academic), anthropologists, historians, and conservators in or studying the United States, but also wherever archaeology is taught and practiced.

Features
► The first time one of the grandfathers of Historical Archaeology has sat down to put together his memoirs

Contents
Part I: The Formative Years: Escaping the Ground Hole. Appalachian Stories and After. UNC Stories.- Part II: The Developmental Years.- Town Creek Stories. SEAC Stories. Brunswick Town Stories. Digging Art-And Life Stories. Civil War Stories. Tales from "A Loose Cannon".- Part III: The Fluorescent Years: Charles Towne Tales. Politics and Potsherd Stories. Ninety Six Stories. "Loose" in South Carolina. Method and Theory Stories.- Part IV: The Climactic Years: Spanish Santa Elena and French Charlesfort Tales. Tales Boyond Santa Elena.

Field of interest
Archaeology

Target groups
Archaeologists (specifically American and historical), anthropologists, historians (specifically in the Southeastern US), and conservators

Type of publication
Monograph

Available

1st ed. 2005. 2nd printing 2007. XII, 430 p. Softcover

► * **€ (D) 42,75 | € (A) 43,95 | sFr 65,50**
ISBN 978-0-387-68174-0

H. Vera, University of Florida, Gainesville, FL, USA;
J. Feagin, Texas A&M University, College Station, TX, USA

Handbook of the Sociology of Racial and Ethnic Relations

The study of racial and ethnic relations has become one of the most studied aspects in sociology and sociological research. In both North America and Europe, many "traditional" cultures are feeling threatened by immigrants from Latin America, Africa and Asia.
Sociology is at the hub of the human sciences concerned with racial and ethnic relations. Since this discipline is made of multiple paradigms and methodological orientations it has been able to make relevant contributions to disciplines ranging from individual psychology, social psychology, and psychiatry, to economics, anthropology, linguistics, cultural studies, health care delivery and education.

Features
► There has been no recent reference book on the sociology of racial and ethnic relations ► This handbook will be a true international collaboration ► Looks at racial and ethnic relations from and academic perspective

Contents
The changing field of the sociology of racial and ethnic relations – the perceived threat of Latin America, Africa, and Asia of North American and European "traditional" cultures. – Racial and Ethnic relations and methodological orientations and their contributions to: individual psychology, social psychology, psychiatry, economics, anthropology, linguistics, cultural studies, health care delivery, and education – racial and ethnic inequality within the healthcare system and "cultural competence" to enhance racial and ethnic relations through health education institutions and health service delivery – Future of the sociology of racial and ethnic relations.

Fields of interest
Sociology; Cross Cultural Psychology

Target groups
Sociologists working in the field of race and ethnic relations, social psychologists, anthropologists, cultural researchers and other social scientists who study race and ethnic relations

Type of publication
Handbook

Due August 2007

2007. Approx. 535 p. (Handbooks of Sociology and Social Research) Cloth bound

► * **€ (D) 208,60 | € (A) 214,45 | sFr 319,50**
ISBN 978-0-387-70844-7

J. Broad, **K. Green**, Monash University, Melbourne, VIC, Australia (Eds.)

Virtue, Liberty, and Toleration

Political Ideas of European Women, 1400-1800

This volume challenges the view that women have not contributed to the historical development of political ideas, and highlights the depth and complexity of women's political thought in the centuries prior to the French Revolution. From the late medieval period to the enlightenment, a significant number of European women wrote works dealing with themes of political significance. The essays in this collection examine their writings with particular reference to the ideas of virtue, liberty, and toleration. The figures discussed include Christine de Pizan, Catherine d'Amboise, Isabella d'Este, Elizabeth I, Katherine Chidley, Elizabeth Poole, Margaret Cavendish, Damaris Masham, Mary Astell, Elizabeth Carter, Catharine Macaulay, Mary Wollstonecraft, and Cornélie Wouters. These women actively contributed to the political practice and discourse of their times.

Features
► Includes both English and continental women thinkers ► Provides an introduction to the thought of little known women thinkers ► Treats women's ideas with philosophical sophistication as part of the history of political thought ► Examines a period (1400-1600) that has received little attention in the history of women's ideas

Fields of interest
History of Philosophy; Political Philosophy; Gender Studies

Target groups
Academics and students of history of ideas, political theory, late medieval, early modern, and enlightenment philosophy, European studies, and women's studies

Type of publication
Contributed volume

Due June 2007

2007. 238 p. 7 illus. (The New Synthese Historical Library, Volume 63) Hardcover

► * **€ (D) 106,95 | € (A) 109,95 | sFr 164,00**
ISBN 978-1-4020-5894-3

M. Cherry, St. Edward's University, Austin, TX, USA; **A. S. Iltis**, Saint Louis University, St. Louis, MO, USA (Eds.)

Pluralistic Casuistry

Balancing Moral Arguments, Economic Realities, and Political Theory

Baruch A. Brody has been one of the most important voices in bioethics over the last several decades, asking new and challenging questions about a range of problems, examining recalcitrant issues in novel ways, always with the goal of offering practical solutions to complex problems. This volume presents a sustained philosophical analysis of Brody's contributions to biomedical ethics. The essays in this volume compass epistemological, methodological, and topical contributions to bioethics, including both application and criticism of Brody's normative moral theory – pluralistic casuistry – Jewish medical ethics, human embryo transfer, medical futility, life and death decisions in pediatrics, euthanasia and end-of-life decision-making, the obligations of clinical researchers toward study participants, and professional integrity.

Features
► Analysis of the work of Baruch Brody, a leading figure in bioethics ► Combines methodological, philosophical considerations with applied chapters ► Includes a response by Baruch Brody that critically engages the contributions to the volume

Contents
Section I Pluralistic Moral Casuistry.- Section II Jewish Medical Ethics.- Section III Biomedical Public Policy.- Section IV Critical Application and Analysis.- Appendix.

Fields of interest
Philosophy of Medicine; Theory of Medicine/ Bioethics

Target groups
Bioethicists, philosophers or religious scholars in ethics or philosophy of medicine

Type of publication
Contributed volume

Due September 2007

2007. Approx. 200 p. (Philosophy and Medicine, Volume 94) Hardcover

► * **€ (D) 99,46 | € (A) 102,25 | sFr 152,50**
ISBN 978-1-4020-6259-9

C. Dutilh Novaes, Leiden, The Netherlands

Formalizing Medieval Logical Theories

Suppositio, Consequentiae and Obligationes

This book presents novel formalizations of three of the most important medieval logical theories: supposition, consequence and obligations. In an additional fourth part, an in-depth analysis of the concept of formalization is presented – a crucial concept in the current logical panorama, which as such receives surprisingly little attention. Although formalizations of medieval logical theories have been proposed earlier in the literature, the formalizations presented here are all based on innovative vantage points: supposition theories as algorithmic hermeneutics, theories of consequence analyzed with tools borrowed from model-theory and two-dimensional semantics, and obligations as logical games. For this reason, this is perhaps the first time that these medieval logical theories are made fully accessible to the modern philosopher and logician who wishes to obtain a better grasp of them, but who has always been held back by the lack of appropriate 'translations' into modern terms.

Features
► Makes medieval logic understandable to the modern logician/philosopher ► Sheds a new light on medieval logical theories by means of newly designed formalizations ► Is a diachronic analysis of what constitutes the essence of logic, in particular through the concept of the formal ► Combines in-depth historical analysis with a systematic/logical approach to medieval logic

Contents
Introduction.- 1. Supposition Theory: Algorithmic Hermeneutics.- 2. Buridan's Notion of Consequentia.- 3. Obligationes as logical games.- 4. The Philosophy of Formalization.- Conclusion.- References.- Index of Names and Topics.

Fields of interest
Logic; Medieval Philosophy; Philosophy

Target groups
Historians of logic, philosophers of logic and language, logicians

Type of publication
Monograph

Available

2007. XII, 326 p. (Logic, Epistemology, and the Unity of Science, Volume 7) Hardcover

► * **€ (D) 139,05 | € (A) 142,95 | sFr 213,00**
ISBN 978-1-4020-5852-3

G. Hanekamp, Europäische Akademie, Bad Neuenahr-Ahrweiler, Germany (Ed.)

Business Ethics of Innovation

Assisted by: F. Wuetscher,

Firms that operate in a market economy often depend upon innovations in order to achieve competitive advantages that sustainably secure their survival. Business ethics is thus largely concerned with questions about the decisional freedoms involved in innovation processes. Innovations oftentimes raise novel questions about the role of the state or the structure of society. Business ethics needs to provide a framework for balancing the different perspectives, values, and interests at stake. This balance must be achieved at the level of the firm in order to facilitate adequate long term decisions, but it should also be sought at higher, including regulatory, levels. Achieving this balance will require an ethical framework for entrepreneurial action. The particular disciplines engaged in generating innovations as well as all relevant fields of applied ethics should be involved in the balancing process. Business Ethics of Innovation is thus necessarily an interdisciplinary endeavour.

Contents
Business Ethics of Innovation. An Introduction.- Corporate Ethics and Globalization. Global Rules and Private Actors.- Research Priorities, Profits, and Public Goods: The Case of Drug Resistant Disease.- Ethical Issues Associated with Pharmaceutical Innovation.- Corporate Responsibility for Innovation – A Citizenship Framework.- Access to Medicines and the Innovation Dilemma.- IT Innovations and Open Source: A Question of Business Ethics or Business Model?

Fields of interest
Ethics; Philosophy; Social Sciences, general

Target groups
Researcher and scientists

Type of publication
Monograph

Due May 2007

2007. XVI, 110 p. (Ethics of Science and Technology Assessment, Volume 31) Hardcover

► * **€ (D) 53,45 | € (A) 54,95 | sFr 82,00**
ISBN 978-3-540-72309-7

Y. Hashiloni-Dolev, The Academic College of Tel-Aviv-Yaffo, Israel

A Life (Un)Worthy of Living

Reproductive Genetics in Israel and Germany

Based on a variety of empirical materials the study reveals dramatic differences between the way that the German and Israeli societies address the question of a life (un)worthy of living: while in Germany, social, cultural, religious and legal conditions restrict the selection of embryos based on prenatal diagnosis, in Israel they strongly encourage it.

A close comparative analysis of the ways that these two societies handle the delicate balance between the quality and sanctity of life illuminates the controversy around reproductive genetics in an original and provocative way. The study is also innovative in its use of contemporary social theory concerning the politics of life in comprehending the differences between two societies positioned at opposite extremes in their adoption of reproductive genetics. It thus offers an original cross-cultural discussion concerning present-day techno-medical manipulations of life itself.

Features
► Deals with cutting edge questions regarding human reproduction, genethics and the social application of new reproductive technologies ► Develops new concepts for discussing present day genetic manipulations of life itself, and contributes to both academic and political discussions concerning the biopolitics of the beginning of life ► Feeds the ongoing debate about the balance between the value versus the quality of life

Fields of interest
Ethics; Reproductive Medicine; Human Genetics

Target groups
Sociologists, anthropologists, researchers of health and illness and of new reproductive technologies, sociology and anthropology of the body, science and technology studies, students in policy studies, genetic counseling, health law and ethics and german and israeli studies

Type of publication
Monograph

Available

2007. XX, 300 p. (International Library of Ethics, Law, and the New Medicine, Volume 34) Hardcover

► * **€ (D) 101,60 | € (A) 104,45 | sFr 156,00**
ISBN 978-1-4020-5217-0

Husserl-Archiv Leuven, The Netherlands

History of the Husserl-Archives

This short History of the Husserl-Archives offers a fascinating view on the foundation and development of this important research institute and of the Husserliana edition. Father Van Breda's personal annotations, which are made public for the first time in English here, paint a captivating picture of the rescue of Husserl's manuscripts and the foundation of the Archives shortly before the second world war. The overview of the further history of the Archives by Thomas Vongehr concentrates on the history of the editorial work and its reception. These two texts present not only a historical account but explain the scientific goals and tasks of the Husserl-Archives and its research.

Features
► First comprehensive history of the Husserl-Archives ► Unique autobiographical documentation of the foundation of the Archives
► Available in German and English for the first time

Contents
Foreword.- The Rescue of Husserl's Nachlass and the Founding of the Husserl-Archives.- A Short History of the Husserl-Archives Leuven and the Husserliana.- Images.- Appendix Husserliana.

Fields of interest
Phenomenologists; historians of philosophy

Target groups
Phenomenology, History of philosophy

Type of publication
Commemorative publication

Available

2007. XIV, 162 p. 13 illus. Softcover

► **€ (D) 19,95 | € (A) 20,50 | sFr 31,00**
ISBN 978-1-4020-5726-7

S. C. Lee, National Central University, Chungli, Taiwan (Ed.)

The Family, Medical Decision-Making, and Biotechnology

Critical Reflections on Asian Moral Perspectives

This volume opens with an exploration of the Confucian recognition of the family as an entity existing in its own right and which is not reducible to its members or their interests. As the essays in this volume show, this recognition of the family supports a notion of family autonomy that contrasts with Western individualistic accounts of proper medical decision making. There are analyses of basic concepts as well as explorations of their implications for actual medical practice. The conflicts in East Asian countries between traditional Confucian and Western bioethics are explored as well as the tension between the new reproductive technologies and traditional understandings of the family.

Features
► A detailed view of implications of Confucian thought for bioethics ► An introduction to why East Asian medical practice and the norms for human embryonic research are so different from that in North America and Europe ► Provides a detailed exploration of why the concept of the family plays such a central role in East Asian medical decision making

Contents
Preface.- I. A View from Asia: An Introduction.- II. The Family and its Impact on Bioethics and Personhood.- III. Medical Decision-Making and Traditional Conception of the Family.- IV. Human Embryonic Stem Cell Research: Confucian, Islamic, and Western Perspectives.- V. Taking the Family Seriously: Confucian Approaches to Health Care Financing.- VI. A Concluding, Quasi-Confucian Postscript.

Fields of interest
Philosophy of Medicine; Medicine/Public Health, general; Ethics

Target groups
Bioethicists, physicians, researchers, students of Chinese and Asian philosophy, those working in family studies

Type of publication
Contributed volume

Due June 2007

2007. XII, 228 p. (Philosophy and Medicine, Volume 91) Hardcover

► * **€ (D) 85,55 | € (A) 87,95 | sFr 131,00**
ISBN 978-1-4020-5219-4

M. Murray, University of Prince Edward Island, Charlottetown, Canada

The Moral Wager

Evolution and Contract

This book illuminates and sharpens moral theory, by analyzing the evolutionary dynamics of interpersonal relations in a variety of games. We discover that successful players in evolutionary games operate as if following this piece of normative advice: Don't do unto others without their consent.
From this advice, some significant implications for moral theory follow. First, we cannot view morality as a categorical imperative. Secondly, we cannot hope to offer rational justification for adopting moral advice. This is where Glaucon and Adeimantus went astray: they wanted a proof of the benefits of morality in every single case. That is not possible. Moral constraint is a bad bet taken in and of itself. But there is some good news: moral constraint is a good bet when examined statistically.

Features
► Best overarching defence of evolutionary ethics yet ► Excellent synthesis of biology, game theory, and contractarian ethics ► Offers a revisionist contractarian normative theory ► Great, sustained, dialectic progression throughout ► Wonderfully clear, witty, and engaging

Contents
Introduction.- 1. Irrealism.- 2. Against Moral Categoricity.- 3. Self-Interest.- 4. Rationality's Failure.- 5. Evolutionary Fit.- 6. Consent Theory.- 7. Concerned Parties.- 8. Suffering and Indifference.- Bibliography.- Index.

Fields of interest
Ethics; Game Theory, Economics, Social and Behav. Sciences; Evolutionary Biology

Target groups
Professional philosophers specializing in theoretical ethics – especially studying contractarianism, game theory, and/or evolutionary ethics; Grad students; Senior undergraduate students; Ethicists, biologists, economists, social theorists, decision theorists

Type of publication
Monograph

Available

2007. X, 250 p. (Philosophical Studies Series, Volume 108) Hardcover

► * **€ (D) 106,95 | € (A) 109,95 | sFr 164,00**
ISBN 978-1-4020-5854-7

N. Nottelmann, University of Copenhagen, Denmark

Blameworthy Belief

A Study in Epistemic Deontologism

Believing the wrong thing may sometimes have drastic consequences. The question as to when a person is not only ill-guided, but genuinely at fault for holding a particular belief is an important one: It touches upon the roots of our understanding of such notions as criminal negligence and moral responsibility.
The answer to this question may influence the extent to which we are willing to submit each other to punishments ranging from mild resentment to harsh prison terms.
This book presents an extensive effort to shed light on the conditions under which we may appropriately deem someone blameworthy for holding a particular belief. It regiments and unifies several debates within contemporary epistemology, ethics and legal scholarship. Finally, the book brings a new philosophical look on issues like our power to control beliefs and the extent and nature of foresight.

Features
► Provides the first extensive treatment of the notion of epistemic blameworthiness, a notion central to many philosophical concerns ► Brings together for the first time important legal case material, meta-ethical theory and state-of-the-art epistemology ► Presents a wide array of topics in contemporary philosophy, on which much interesting work is sure to be done in the near future

Fields of interest
Epistemology; Ethics; Philosophy of Law

Target groups
Professional philosophers, students of philosophy from advanced undergraduates and up, broad-minded legal scholars

Type of publication
Monograph

Due June 2007

2007. 280 p. (Synthese Library, Volume 338) Hardcover

► * **€ (D) 123,00 | € (A) 126,45 | sFr 188,50**
ISBN 978-1-4020-5960-5

P. W. Phillips, University of Saskatchewan, Saskatoon, SK, Canada; **C. B. Onwuekwe**, University of Calgary, AB, Canada

Accessing and Sharing the Benefits of the Genomics Revolution

There is a veritable gold rush mentality in the life science world as scientists, entrepreneurs and multinationals are staking claims to the 'code of life' embodied in the world's current stock of plants, animals, microbes and human populations.

This edited volume explores the legal, economic and political context for the debate about intellectual property rights for traditional knowledge and genetic resources and critically analyses the theory and practice of access and benefits sharing efforts around the world. The book also investigates the current flashpoints – the David and Goliath battle between Monsanto and Percy Schmeiser over farmers' rights; the dispute over coexistence of GM and organic production; and the ownership and control of human genetic materials stored in human gene banks around the world.

Features
► Explores the legal, economic and political context for the debate about intellectual property rights for traditional knowledge and genetic resources ► Investigates the current flashpoints: the battle between Monsanto and Percy Schmeiser over patented seeds, the dispute over coexistence of GM and organic production; and the ownership and control of human genetic materials

Fields of interest
Ethics; Law Theory/Law Philosophy; Life Sciences, general

Target groups
Scholars in law, economics, agricultural economics, sociology, political science and science/technology/society, especially in issues of patents, plant genetic resources, ethics of IPRs and indigenous studies; policy institutes and actors across the world, IFPRI and IPGRI, the Cartagena Protocol on Biosafety, the World Intellectual Property Office, UN agencies; national government agencies directed at understanding and participating in the policy area, NGOs and activists

Type of publication
Contributed volume

Due February 2008

2008. VII, 217 p. (The International Library of Environmental, Agricultural and Food Ethics, Volume 11) Hardcover

► * **€ (D) 106,95 | € (A) 109,95 | sFr 164,00**
ISBN 978-1-4020-5821-9

P. Pinstrup-Andersen, Cornell University, Ithaca, NY, USA; **P. Sandøe**, University of Copenhagen, Denmark (Eds.)

Ethics, Hunger and Globalization

In Search of Appropriate Policies

"Ethics, Hunger and Globalization" adds an ethics dimension to the debate and research about poverty, hunger, and globalization. Outstanding scholars and practitioners from several disciplines discuss what action is needed for ethics to play a bigger role in action by governments, civil society, and the private sector to reduce poverty and hunger within the context of globalization. The book concludes that much of the rhetoric by policy makers is not followed up with appropriate action, and discusses the role of ethics in attempts to match action with rhetoric. The book also concludes that a better understanding of the values underlying both public and private sector action towards the alleviation of poverty and hunger would lead to more enlightened policies and a greater success in attempts to achieve the Millennium Development Goals.

Features
► Presents new evidence about the role of ethics in government action to alleviate hunger ► Provides a unique perspective on how to achieve the Millennium Development Goals ► Shows how ethical and economic aspects can be integrated for better policies and reduced hunger ► Discusses how ethical perspectives may guide globalization for the benefit of poor people

Fields of interest
Ethics; Economic Policy; Social Policy

Target groups
Ethicists, economists, agricultural conomists, food policy analysts, food policy advisors to governments, economic development professionals, the NGO community as well as the UN community

Type of publication
Contributed volume

Due August 2007

2007. Approx. 300 p. (The International Library of Environmental, Agricultural and Food Ethics, Volume 12) Hardcover

► * **€ (D) 117,65 | € (A) 120,95 | sFr 180,50**
ISBN 978-1-4020-6130-1

P. Saka, University of Houston, TX, USA

How to Think about Meaning

According to the dominant theory of meaning, truth-conditional semantics, to explain the meaning of a statement is to specify the conditions necessary and sufficient for its truth. Classical truth-conditional semantics is coming under increasing attack, however, from contextualists and inferentialists, who agree that meaning is located in the mind.

How to Think about Meaning develops an even more radical mentalist semantics, which it does by shifting the object of semantic inquiry. Whereas for classical semantics the object of analysis is an abstract sentence or utterance such as "Grass is green", for attitudinal semantics the object of inquiry is a propositional attitude such as "Speaker so-and-so thinks grass is green". Explicit relativization to some speaker S allows for semantic theory then to make contact with psychology, sociology, historical linguistics, and other empirical disciplines.

Features
► Challenges truth-conditional semantics ► Develops a cognitivist or mentalist theory of meaning ► Examines the nature of hate speech ► Examines the nature of ambiguity ► Proposes a new solution to the semantic paradoxes

Contents
Preface.- Notational Conventions.- Part I: Theoretical Issues.- 1. Introduction.- 2. The Case of the Missing Truth-Conditions.- 3. Foundations of Attitudinal Semantics.- 4. Objections and Replies.- Part II: Case Studies.- 5. Hate Speech.- 6. Ambiguity.- 7. Quotation and Use-Mention.- 8. Liars and Truth-tellers.- Conclusion.- References.- Index.

Fields of interest
Philosophy of Language; Semantics; Pragmatism

Target groups
Anyone interested in the theory of meaning, especially philosophers of language and those in linguistic semantics and linguistic pragmatics

Type of publication
Monograph

Due June 2007

2007. XIV, 280 p. (Philosophical Studies Series, Volume 109) Hardcover

► * **€ (D) 128,35 | € (A) 131,95 | sFr 197,00**
ISBN 978-1-4020-5856-1

H. Wright, Drury University, Springfield, MO, USA

Means, Ends and Medical Care

Writing with exceptional clarity, heart-felt compassion for the physical and emotional suffering of patients, and deep philosophical insight into the nature of human cognition, Wright uses the conceptual tools of recent cognitive science to analyze and critique some of the most basic underlying conceptions of contemporary medical care. To make it clear why we desperately need a richer, more nuanced account of medical reasoning, Wright gives a brilliant analysis of the complex internal structure of our concepts of health and disease, showing that our present models are wholly incapable of dealing with the realities of actual human disease. He then shows the error of assuming that we always know in advance what the medical and moral ends are for any medical situation. This leads to a radical questioning of so-called "rational actor" or "economic" models of rationality that are popular in medicine today. Prof. Mark Johnson, Department of Philosophy, University of Oregon

Features
► Goes deeper than the usual medical ethics text in elaborating the basis of value in medical endeavors ► Refutes claims that professional judgement can be industrialized or computerized ► Proposes a Deweyan model that reinforces informal means/ends reasoning instead of trying to replace it with economic rationality

Contents
Overview: Broad Considerations in the Relation of Means and Ends, Treating and Healing.- Cognitive Semantic Structures in Informal Means/Ends Reasoning.- Health and Disease: Fluid Concepts Evolved Non-Literally.- John Dewey's Perspective on Means and Ends: the Setting which makes Informal Deliberation Necessary.- John Dewey's View of Situations, Problems, Means and Ends.

Fields of interest
Philosophy of Medicine; Pragmatism; Ethics

Target groups
Philosophers, medical ethicists, health policy planners, medical educators, pragmatists, graduate students and scholars in bioethics, philosophy of medicine, health care ethics

Type of publication
Monograph

Available

2007. VI, 186 p. (Philosophy and Medicine, Volume 92) Hardcover

► * **€ (D) 101,60 | € (A) 104,45 | sFr 156,00**
ISBN 978-1-4020-5291-0

D. N. Weisstub, Université de Montréal, QC, Canada; **G. Diaz-Pintos**, Universidad de Castilla-La Mancha, Ciudad Real, Spain (Eds.)

Autonomy and Human Rights in Health Care

An International Perspective

Autonomy and Human Rights in Healthcare: An International Perspective is a group of essays published in memory of David Thomasma, one of the leading humanists in the field of bioethics during the twentieth century. A pioneer in the field of multidisciplinary research, having integrated major theological and philosophical traditions in the west with modern science, Thomasma was a role model to the authors who have devoted essays to his major avenues of inquiry. The authors represent many different countries and disciplines throughout the globe. The volume deals with the pressing issue of how to ground a universal bioethics in the context of the conflicted world of combative cultures and perspectives.

Features
► Adresses the challenge of creating universal bioethics in the faces of valued conflicts and the concentration of world views ► Looks at the main topics in current Bioethics that have a serious human rights component ► Explores the human right to health and the various sub rights that are part of ongoing crises relating to claims made in the health system

Contents
Contributors. Acknowledgements. Preface: E. Pellegrino. Contributors. Introduction.- Part I: Health Care, Human Rights, and Social Policy.- Part II: The Centrality and Limits of Autonomy.- Part III: Pluralism, Race and Health.- Part IV: Future Legal Ordering And Social Planning.- Part V: Individual Integrity, Research Ethics and Human Rights.- Index.

Fields of interest
Ethics; Philosophy of Medicine; Medical Law

Target groups
Physicians, philosophers, theologists, lawyers, human rights workers, health professionals, lay people

Type of publication
Contributed volume

Due June 2007

2007. VI, 414 p. (International Library of Ethics, Law, and the New Medicine, Volume 36) Hardcover

► * **€ (D) 144,40 | € (A) 148,45 | sFr 221,50**
ISBN 978-1-4020-5840-0

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This book's aim is to enrich and deepen our psychological understanding of biblical concepts and personalities. Such understanding is relevant for theology as well as for psychology and psychiatry. It may help theologians to contextualize their discipline by bringing it into contact with contemporary psychological and existential issues and tensions, both at an individual and a societal level. It also encourages psychologists and psychiatrists to develop and refine their vocabularies when they try to comprehend the existential meaning of what is transmitted to them by their clients.
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From the contents
Contributing Authors. Preface. Acknowledgements.- Part I: Historical and Conceptual Issues.- Part II: Prophecy: Theological and Psychological Aspects.- Part III: Martyrdom: Theological and Psychological Aspects.- Part IV: Messianism: Theological and Psychological Aspects.- Part V: Interdisciplinary Issues: Prospects for the Future.- Index of Names.- Index of Subjects.

Fields of interest
Religious Studies; Psychology, general; Philosophy of Religion

Target groups
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Yorick Wilks is a central figure in the fields of Natural Language Processing and Artificial Intelligence. His influence has extends to many areas of these fields and includes contributions to Machine Translation, word sense disambiguation, dialogue modeling and Information Extraction. This book celebrates the work of Yorick Wilks from the perspective of his peers. It consists of original chapters each of which analyses an aspect of his work and links it to current thinking in that area. His work has spanned over four decades but is shown to be pertinent to recent developments in language processing such as the Semantic Web. This volume forms a two-part set together with Words and Intelligence I, Selected Works by Yorick Wilks, by the same editors.

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Contents
With contributions by: John Barnden, Nicoletta Calzolari, Gregory Grefenstette, Mark Maybury, Makoto Nagao, Sergei Nirenburg, Harold Somers, Karen Sparck-Jones, John Tait, Patrick Hanks, Nancy Ide, Nigel Shadbolt, and Rob Gaizauskas

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A Pragma-Dialectical Study

Argumentative Indicators: A Pragma-Dialectical Study identifies and analyses English words and expressions that are crucial for an adequate reconstruction of argumentative discourse. It provides the analyst of argumentative discussions and texts with a systematic set of instruments for giving a well founded analysis which results in an analytic overview of the elements that are relevant for the evaluation of the argumentation. In the book a systematic connection is made between linguistic insights into the characteristics of argumentative discourse and insights from argumentation theory into the resolution of differences of opinion by means of argumentation.

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