Just Released New Books July 2012
All Titles, All Languages

“Sorted by author and title within the main subject”
Historic Mortars
Characterisation, Assessment and Repair

This volume focuses on research and practical issues connected with mortars on historic structures. The book is divided into four sections: Characterisation of Historic Mortars, Repair Mortars and Design Issues, Experimental Research into Properties of Repair Mortars, and Assessment and Testing. The papers present the latest work of researchers in their field. The individual contributions were selected from the contributions to the 2nd Historic Mortars Conference, which took place in Prague, September 22-24, 2010. All papers were reviewed and improved as necessary before publication. This peer review process by the editors resulted in the 34 individual contributions included in here. One extra paper reviewing and summarising State-of-the-Art knowledge covered by this publication was added as a starting and navigational point for the reader. The editors believe that having these papers in print is important and they hope that it will stimulate further research into historic mortars and related...

Features
This volume focuses on research and practical issues connected with mortars on historic structures. The book is divided into four sections: Characterisation of Historic Mortars, Repair Mortars and Design Issues, Experimental Research into Properties of Repair Mortars, and Assessment and Testing. The papers present the latest work of researchers in their field. The individual contributions were...

Contents

Fields of interest
Cultural Heritage; Building Materials; Characterization and Evaluation of Materials

Target groups
Research

Type of publication
Proceedings

Usually dispatched within 3 to 5 business days.

2012, XII, 464 p. 281 illus., 150 in color. (RILEM Bookseries, Vol. 7) Hardcover

249,00 €
ISBN 978-94-007-4634-3
Women in Islam
Reflections on Historical and Contemporary Research

The role of women in Islamic societies, not to mention in the religion itself, is a defining issue. It is also one that remains resistant to universal dogma, with a wide range of responses to women’s social roles across the Islamic world. Reflecting this heterogeneity, the editor of this volume has assembled the latest research on the issue, which combines contemporary with historical data. The material comes from around the world as well as from Muslim and non-Muslim researchers. It takes in work from majority Muslim nations such as Bangladesh, Iran, Iraq, Lebanon, Pakistan, Palestine, Tunisia and Turkey, as well as countries with troubled interfaith relations such as India and Israel. Nations with minority Muslim populations such as France, the UK, Canada and Australia, are also represented. The work also features varying Islamic sub-groups such as the two main ones, Sunni and Shi’a, as well as less well known populations such as the Ismaili Muslims. In each case, the work is underpinned by the... 

Features
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Contents

Fields of interest
Religious Studies; Anthropology; Religion and Education; Non-Western Philosophy; Philosophy of Religion

Target groups
Research

Type of publication
Contributed volume

Usually dispatched within 3 to 5 business days.

Biomedicine

Adherens Junctions: from Molecular Mechanisms to Tissue Development and Disease

Cell-cell adhesion is fundamental for the development and homeostasis of animal tissues and organs. Adherens junctions (AJs) are the best understood cell-cell adhesion complexes. In this volume, a group of internationally recognized experts reviews AJ biology over a wide range of organization; from atoms to molecules, to protein complexes, molecular networks, cells, tissues, and overall animal development. AJs have also been an integral part of animal evolution, and play central roles in cancer development, pathogen infection and other diseases. This book addresses major questions encompassing AJ biology. • How did AJs evolve? • How do cadherins and catenins interact to assemble AJs and mediate adhesion? • How do AJs interface with other cellular machinery to couple adhesion with the whole cell? • How do AJs affect cell behaviour and multicellular development? • How can abnormal AJ activity lead to disease?

Features
Cell-cell adhesion is fundamental for the development and homeostasis of animal tissues and organs. Adherens junctions (AJs) are the best understood cell-cell adhesion complexes. In this volume, internationally recognized experts review AJ biology over a wide range of organization; from atoms to molecules, to protein complexes, molecular networks, cells, tissues, and overall animal development. [...] 

Contents

Fields of interest
Biomedicine (general); Cell Biology; Developmental Biology; Protein Structure; Receptors; Cancer Research

Target groups
Professional/practitioner

Type of publication
Contributed volume

Usually dispatched within 3 to 5 business days.

Antibody Methods and Protocols

The rapidly growing field of antibody research is the result of many advancing technologies allowing current developments to take advantage of molecular engineering to create tailor-made antibodies. Antibody Methods and Protocols attempts to provide insight into the generation of antibodies using in vitro and in vivo approaches, as well as technical aspects for screening, analysis, and modification of antibodies and antibody fragments. The detailed volume is focused on basic protocols for isolating antibodies and, at the same time, it selects a range of specific areas with the aim of providing guides for the overall process of antibody isolation and characterization as well as protocols for enhancing classical antibodies and antibody fragments. Written in the highly successful Methods in Molecular Biology” series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on[...]

Features
The rapidly growing field of antibody research is the result of many advancing technologies allowing current developments to take advantage of molecular engineering to create tailor-made antibodies. Antibody Methods and Protocols attempts to provide insight into the generation of antibodies using in vitro and in vivo approaches, as well as technical aspects for screening, analysis, and modification[...]

Contents
Antigen Presentation for the Generation of Binding Molecules. - Recombinant Antibodies and In Vitro Selection Technologies. - Phage Display. - Generation of Human Fab Libraries for Phage Display. - Selection of Human Fab Libraries by Phage Display. - Ribosome Display. - Hybridoma Technology for the Generation of Monoclonal Antibodies. - The Application of Transgenic Mice for Therapeutic Antibody Discovery. - Production of Human or Humanized Antibodies in Mice. - Immortalization of Human B Cells: Analysis of B Cell Repertoire and Production of Human Monoclonal Antibodies. - Kinetic Screening in the[...]

Fields of interest
Immunology; Antibodies

Target groups
Professional/practitioner

Type of publication
Contributed volume

Usually dispatched within 3 to 5 business days.

2012, XII, 245 p. 3 Illus, Hardcover
99,95 €
ISBN 978-3-642-2181-8

2012, VII, 431 p. 58 Illus., 55 in color. (Subcellular Biochemistry, Vol. 60) Hardcover
189,95 €
Brain Immune System Signal Molecules in Protection from Aerobic and Anaerobic Infections

Proline-rich polypeptides - in particular (PRP-1) galarmin and its structural analogues - are, when isolated from the neurosecretory granules of hypothalamus of humans and animals, a new type of neurohypophysis peptides. They work against aerobic, anaerobic, gram-positive, and gram-negative microorganisms in vivo, and do not have etiotropic properties. They are unique and capable substitutes to antibiotics, and, moreover, may be effective against strains, such as MRSA, that develop resistance to antibiotics. Galarmin, a component of the brain neuroendocrine system produced by the neurosecretory cells of hypothalamus, possesses immunomodulatory, neuroprotective, antioxidant, antitumorogenic and hematopoietic properties. Moreover, galarmin and its structural analogues are powerful anti-inflammatory compounds.

In addition to presenting a full overview of the neuroimmune system, it emphasizes the antibacterial, neuroprotective, and neuroregenerative properties of proline-rich polypeptides. It [...]
From Nucleic Acids Sequences to Molecular Medicine

Despite a half century of structural, biophysical and biochemical investigations of ribonucleic acids, they are still mysterious. RNAs stand at fertile crossroads of disciplines, integrating concepts from genomics, proteomics, dynamics as well as biochemistry and molecular biology. From 20 years it is clear, that genetic regulation of eukaryotic organisms has been misunderstood for the last years that the expression of genetic information is affected only by proteins. Basic understanding of nucleic acids has enhanced our foundation to probe novel biological functions. This is especially evident for RNA molecules whose functionality, maturation, and regulation require formation of correct secondary structure through encoded base-pairing interactions.

Features
For this RNA Technologies volume a worldwide outstanding group of RNA specialists are contributing the most recent developments in this fast moving field of RNA molecular biology. The book features up-to-date information of our current knowledge on antisense, ribozyme, micro RNA, and DNA/s/ and strategies, as well as on other small RNAs from eukaryotes and prokaryotes, and the employment of chemical […]

Contents

Fields of interest
Molecular Medicine; Nucleic Acid Chemistry; Human Genetics

Target groups
Research

Type of publication
Contributed volume

Usually dispatched within 3 to 5 business days.

2012. IX, 654 p. 120 illus., 42 in color. (RNA Technologies) Hardcover

169,95 €
ISBN 978-3-642-27425-1

H. Roeker, Radiologische Universitätssklinik Boen, Germany; C.H. Hillman, University of Illinois at Urbana-Champaign, IL, USA; L. Schneef, Radiologische Universitätssklinik, Boen, Germany; H.K. Strieter, Institute of Movement and Neurosciences, German Sport University Cologne, Cologne, Germany (Eds.)

Functional Neuroimaging in Exercise and Sport Sciences

Regular physical exercise is associated with substantial health benefits. Recent evidence not only holds for cardiovascular effects promoting “physical health”, but also for the central nervous system believed to promote “brain health”. Moderate physical exercise has been found to improve learning, memory, and attentional processing, with recent research indicating that neuroprotective mechanisms and associated plasticity in brain structure and function also benefit. Physical exercise is also known to induce a range of acute and sustained psychophysiological effects, among these mood elevation, stress reduction, anxiolysis, and hypoalgesia. Today, modern functional neuroimaging techniques afford direct measurement of the acute and chronic relation of physical exercise on the human brain, as well as the correlation of the derived physiological in vivo signals with behavioral outcomes recorded during and after exercise. A wide range of imaging techniques have been applied to human exercise research.[…]

Features
Regular physical exercise is associated with substantial health benefits. Recent evidence not only holds for cardiovascular effects promoting “physical health”, but also for the central nervous system believed to promote “brain health”. Moderate physical exercise has been found to improve learning, memory, and attentional processing, with recent research indicating that neuroprotective mechanisms and […]

Contents

Fields of interest
Neurosciences; Neurology; Imaging / Radiology

Target groups
Research

Type of publication
Contributed volume

Usually dispatched within 3 to 5 business days.

2012. X, 283 p. 29 illus., 24 in color. Hardcover

149,95 €
ISBN 978-1-4614-1682-1

N. Ahtuv, University of California, San Francisco, CA, USA (Ed.)

Gene Regulatory Sequences and Human Disease

In Gene Regulatory Sequences and Human Disease, the Editor will introduce the different technological advances that led to this breakthrough. In addition, several examples will be provided of nucleotide variants in noncoding sequences that have been shown to be associated with various human diseases.

Features
Genes make up less than 2% of our DNA and within the remaining 98% lie other extremely important sequences that function as gene regulatory elements, instructing genes when, where and at what levels to turn on or off. In this book, we introduce the different types of gene regulatory elements and how to identify and functionally characterize them. In addition, we describe several pioneering examples of how […]

Contents
Gene regulatory elements.- The Hemoglobin regulatory regions.- Regulatory polymorphisms and osteoporosis.- Gene regulation in Van Buchem disease.- Cis-regulatory enhancer mutations are a cause of human limb malformations.- Regulatory mutations leading to cleft lip and palate.- Cis-regulatory disruption at the SOX9 locus as a cause of Pierre Robin Sequence.- Regulatory mutations in human hereditary deafness.- The contributions of RET non-coding variation to Hirschspring disease.- Cis-regulatory variation and cancer.- Cohesin and human diseases.- Epigenetics and human disease.- Index.

Fields of interest
Human Genetics; Developmental Biology; Systems Biology

Target groups
Research

Type of publication
Contributed volume

Usually dispatched within 3 to 5 business days.

2012. X, 283 p. 29 illus., 24 in color. Hardcover

149,95 €
ISBN 978-1-4614-1682-1

V.A. Erdmann, Free University of Berlin, Germany; J. Barciszewski, Polish Academy of Sciences, Poznan, Poland (Eds.)

Human Genetics; Developmental Biology; Systems Biology

Fields of interest
Biomedicine 5

2012. IX, 654 p. 120 illus., 42 in color. (RNA Technologies) Hardcover

169,95 €
ISBN 978-3-642-27425-1

2012. X, 283 p. 29 illus., 24 in color. Hardcover

149,95 €
ISBN 978-1-4614-1682-1
# Genetics Meets Metabolomics

**from Experiment to Systems Biology**

This book is written by leading researchers in the fields about the intersection of genetics and metabolomics which can lead to more comprehensive studies of inborn variation of metabolism.

**Features**

Unlike previous books published on metabolomics, this book switches the focus from experimental questions and technical challenges, to the application of metabolomics with an emphasis on the underlying genetics. The chapters provide a thorough basis for the understanding of the underlying experimental techniques, concepts and potential biomedical applications of this exciting field. The interdisciplinary [..]

**Contents**

Introduction.- Pre-conditions for high quality biobanking in large human epidemiological cohorts for metabolomics and other -omics studies.- Assay Tools for Metabolomics.- Statistical methods in genetic and molecular epidemiology and their application in studies with metabolic phenotypes.- Ultrahigh resolution mass spectrometry based non-targeted microbial metabolomics.- etabolic systems biology of protozoan parasites.- Mouse genetics and metabolic mouse phenotyping.- Metabolomics in animal breeding.- Metabolomics applications in human nutrition.- Metabolomics for the individualized[..]

**Fields of interest**

Human Genetics; Metabolomics; Systems Biology

**Target groups**

Research

**Type of publication**

Contributed volume

**Usually dispatched within 3 to 5 business days.**

2012, XX, 318 p. 77 illus., 45 in color. Hardcover

149,95 €


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# Gioma

**Immunotherapeutic Approaches**

Treatment of gioma is currently one of the most challenging problems in oncology, as well as in neurosurgery. Despite major advances in our understanding of the pathomechanism, diagnosis by imaging and the availability of powerful therapeutic tools, the life expectancy of patients with glioblastoma has only been slightly prolonged and a cure remains elusive. None of the currently available surgical tools, including operative microscopes, lasers and image-guided surgery, can enable the detection and removal of all of the tumor tissue. In recent years, however, the landscape has been changing immeasurably, and molecular studies over the past two decades have identified a variety of genetic aberrations that are specifically associated with individual types of gliomas. In addition, certain molecular abnormalities have been linked to therapy responses, thereby establishing clinical biomarkers and molecular targets, and the use of novel agents is being investigated. These agents have been specifically[..]

**Features**


**Fields of interest**

Biomedicine (general); Immunology; Cancer Research

**Target groups**

Professional/practitioner

**Type of publication**

Contributed volume

**Online orders shipping within 2-3 days.**

2012, XX, 226 p. 34 illus., 1 in color. (Advances in Experimental Medicine and Biology, Vol. 746) Hardcover

139,95 €


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# Immunogenetics

**Methods and Applications in Clinical Practice**

The HLA molecules are important regulators of the immune response through mediating antigen presentation and interaction between key immune mediating cells. They are also the major histocompatibility barriers to transplantation, which is the clinical paradigm of the self versus non self concept. It is now recognized that this diverse range of gene systems involved in the control of the immune response have been shown to be important in many aspects of clinical practice. As a result many new molecular and cellular methods have been developed for identifying these genes and their polymorphisms, and immunogenetic laboratories specializing in these methods have developed to support transplantation and other clinical programs. Immunogenetics: Methods and Applications in Clinical Practice focuses on methods for human clinical practice. The emphasis rests on those assays which are of established or potential clinical utility and are likely to be included in the repertoire of tests provided by a routine[..]

**Features**

The HLA molecules are important regulators of the immune response through mediating antigen presentation and interaction between key immune mediating cells. They are also the major histocompatibility barriers to transplantation, which is the clinical paradigm of the self versus non self concept. It is now recognized that this diverse range of gene systems involved in the control of the immune response have[..]

**Contents**

The Major Histocompatibility Complex - A Paradigm for Studies of the Human Genome.- HLA Typing by SSO and SSP Methods.- Methods for Diagnostic HLA Typing in Disease Association and Drug Hypersensitivity.- HLA Typing Using Bead Based Methods.- HLA Typing by Direct DNA Sequencing.- Data Analysis of HLA Sequencing using Assign-SBT v3.6+ from Conexio.- Simple Methods for the Detection of HLA-G Variants in Coding and Non-Coding Regions.- Molecular Typing of HLA-E.- Molecular Analysis of Complement Component C4 Gene Copy Number.- Genotyping of Single Nucleotide Polymorphisms (SNPs) by 5[..]

**Fields of interest**

Human Genetics; Immunology

**Target groups**

Professional/practitioner

**Type of publication**

Contributed volume

**Usually dispatched within 3 to 5 business days.**

2012, XVI, 689 p. 137 illus., 2 in color. (Methods in Molecular Biology, Vol. 882) Hardcover

124,95 €

Information Technologies in Biomedicine

This book constitutes the refereed proceedings of the 4th International Conference on Information Technologies in Biomedicine, ITIB 2012, held in Goglin, Poland, in June 2012. The 60 revised full papers were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on image analysis; signal processing; biocybernetics; biomaterials; bioinformatics and biotechnology; biomechanics and rehabilitation; assisted living systems.

Features
This book constitutes the refereed proceedings of the 4th International Conference on Information Technologies in Biomedicine, ITIB 2012, held in Goglin, Poland, in June 2012. The 60 revised full papers were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on image analysis; signal processing; biocybernetics; biomaterials; bioinformatics and biotechnology; biomechanics and rehabilitation; assisted living systems.

Fields of interest
Biomedicine (general); Computer Imaging, Vision, Pattern Recognition and Graphics; Computational Biology / Bioinformatics; Computer Applications in Life Sciences; Bioinformatics; Artificial Intelligence (incl. Robotics)

Target groups
Research

Type of publication
Proceedings

Online orders shipping within 2-3 days.

2012. Approx. 630 p. (Lecture Notes in Bioinformatics, Vol. 7391) Softcover

79,00 €
ISBN 978-3-642-31195-6

Metastasis Research Protocols

Diverse molecular, cellular, and environmental events must all come together to allow the successful formation of secondary cancers, metastases. The second edition of Metastasis Research Protocols, brings together the most up to date versions of the seminal techniques that were presented in the first edition and also includes new techniques that have recently been shown to be important in illuminating the processes underlying this important area of biology. Presented by top scientists, the collection includes a wide spectrum of articles encompassing important key methods and to introduce new methods which are making an impact in the area of metastasis research. Volume 1 includes key cellular and molecular techniques relevant to the exploration of cancer cells and tissues, the focus is on the tools that have been shown to be helpful in unravelling the molecular processes important in cancer metastasis. Written in the highly successful Methods in Molecular Biology® series format, chapters include:[...]

Features
Diverse molecular, cellular, and environmental events must all come together to allow the successful formation of secondary cancers, metastases. The second edition of Metastasis Research Protocols, brings together the most up to date versions of the seminal techniques that were presented in the first edition and also includes new techniques that have recently been shown to be important in[...]

Contents
Basic Immunocytochemistry for Light Microscopy.- Lectin Histochemistry to Detect Altered Glycosylation in Cells and Tissues.- Histopathological Assessment of Metastasis.- Immunocytochemical Detection and Characterisation of Individual Micrometastatic Tumour Cells.- The Polymerase Chain Reaction (PCR).- SDS-PAGE and Western Blotting Techniques.- 2-DE Based Proteomics for the Analysis of Metastasis Associated Proteins.- Assessment of Gelatinases (MMP-2 and MMP-9) by Gelatin Zymography.- Determination of Cell Specific Receptor Binding using a Combination of Immunohistochemistry and in vitro[...]

Fields of interest
Cancer Research; Oncology; Cell Culture

Target groups
Professional/practitioner

Type of publication
Contributed volume

Usually dispatched within 3 to 5 business days.

2012. XII, 274 p. 27 illus., 7 in color. (Methods in Molecular Biology, Vol. 878) Hardcover

94,95 €

Molecular, Clinical and Environmental Toxicology

Volume 3: Environmental Toxicology

Environmental Toxicology is the third volume of a three-volume set on molecular, clinical and environmental toxicology that offers a comprehensive and in-depth response to the increasing importance and abundance of chemicals of daily life. By providing intriguing insights far down to the molecular level, this three-volume work covers the entire range of modern toxicology with special emphasis on recent developments and achievements. It is written for students and professionals in medicine, science, public health or engineering who are demanding reliable information on toxic or potentially harmful agents and their adverse effects on the human body.

Features
Environmental Toxicology is the third volume of a three-volume set on molecular, clinical and environmental toxicology that offers a comprehensive and in-depth response to the increasing importance and abundance of chemicals of daily life. By providing intriguing insights far down to the molecular level, this three-volume work covers the entire range of modern toxicology with special emphasis on[...]

Contents
Chemical hazards in the organization.- Toxicology of water.- Perfluorinated compounds.- Toxicologically relevant phthalates in food.- Exposure to polycyclic aromatic hydrocarbons: bulky DNA adducts and cellular responses.- Heavy metals toxicity and the environment.- Toxicology of ambient particulate matter.- Nanomaterials: a challenge for toxicological risk assessment? Immunotoxicology and its application in risk assessment.- Chemical sensitization and allergotoxicology.- Male reproductivity and endocrine disruption.- Interspecies uncertainty in molecular responses and toxicity of[...]

Fields of interest
Pharmacology / Toxicology

Target groups
Research

Type of publication
Contributed volume

Usually dispatched within 3 to 5 business days.

2012. XII, 574 p. 46 illus., 8 in color. (Experientia Supplementum, Vol. 101) Hardcover

169,95 €
ISBN 978-3-7643-8339-8
Mémoire de la recherche biomédicale portant sur un médicament à usage humain

La première édition de ce mémoire, conçu comme un véritable outil pédagogique de référence, est née de la volonté des auteurs de mieux faire connaître à tous les acteurs de santé concernés par la recherche clinique ce qu’elles étaient les textes, les structures, le lexique dans ce domaine et de répondre aux questions soulevées lors de la conduite ou participation à un essai clinique. Sa large diffusion a permis de remplir ce premier objectif. Une deuxième édition, enrichie et actualisée s’est ensuite avérée nécessaire afin de mettre à jour la réglementation très évolutive dans ce domaine. Elle a également bénéficié d’une expertise juridique en recherche biomédicale et d’une forte expérience « promoteur » ; elle s’adresse à un public encore plus large, en particulier celui des associations de patients représentées lors des Comités de protection de patients.

Features
La première édition de ce mémoire, conçu comme un véritable outil pédagogique de référence, est née de la volonté des auteurs de mieux faire connaître à tous les acteurs de santé concernés par la recherche clinique ce qu’elles étaient les textes, les structures, le lexique dans ce domaine et de répondre aux questions soulevées lors de la conduite ou participation à un essai clinique. Sa large diffusion a permis […]

Fields of interest
Biomedicine (general); Law (general); Medicine (general); Oncology; Hematology

Target groups
Professional/practitioner

Type of publication
Manual

Online orders shipping within 2-3 days.

2012, VI, 144 p. Softcover
28,04 €
ISBN 978-2-8178-0238-1

Naturally Occurring Antibodies (NAbs)

This volume illustrates the functional properties of NAbs. Authors from pioneering groups report in their chapters on the tissue homoeostatic, tissue regenerating and regulatory properties of NAbs and NAbs in pooled human IgG. Scientists interested in the regulation and modulation of components of the immune system found a whole variety of NAbs to cytokines with regulatory and protective functions and NAbs that modulate, e.g., dendritic cells, regulatory T cells, B cells and granulocytes. Considering the large plasma pools and initial difficulties in preparing IVIG that does not induce adverse effects upon infusion into recipients, this volume ends with a historical chapter on how pooled human plasma was fractionated and the IgG component pretreated for a safe intravenous application.

Features
- Contents
  Naturally Occurring IgM Antibodies to Oxidation-Specific Epitopes.
  Naturally Occurring Autoantibodies to Apoptotic Cells.
  Naturally Occurring Antibodies Directed against Carbohydrate Tumor Antigens.
  Naturally Occurring Antibodies as Therapeutics for Neurologic Disease: Can Human Monoclonal IgMs Replace the Limited Resource IVIG?
  Nature and Nurture of Catalytic Antibodies.
  Naturally Occurring Autoantibodies in Mediating Clearance of Senescent Red Blood Cells.
  Naturally Occurring Autoantibodies against b/Amyloid.
  MultiFACeted Role of Naturally Occurring Autoantibodies in Fighting[…]

Fields of interest
Antibodies; Biomedicine (general)

Target groups
Professional/practitioner

Type of publication
Contributed volume

Online orders shipping within 2-3 days.

2012, XXII, 268 p. 46 illus., 3 in color. (Advances in Experimental Medicine and Biology, Vol. 750) Hardcover
139,95 €

Neural Development and Stem Cells

This expanded and updated edition reflects the enormous increase in our knowledge of the development of the nervous system and the use of neural stem cells in clinical applications. Integrating new information about the use of development of neural stem cells for clinical applications, Drs. Rao, Carpenter and Vemuri have added additional chapters on neural transplantation and development of neural stem cells using reprogramming technologies. A new chapter on cancer in nervous system delineates how the fundamental biology of neural stem cells informs our understanding of cancer and tumor formation in the nervous system. Special attention is paid to the derivation of neural cells from embryonic stem cells and induced pluripotent stem cells. Authoritative and up-to-date, Neural Development and Stem Cells, 3rd Edition provides neuroscientists with a handy guide to stem cells in the nervous system, tracing with great clarity the development of stem cells from differentiation to neurons, astrocytes, and[…]

Features
For the third edition of this work Dr. Rao and his fellow editors have worked diligently with the contributors to revise and expand each chapter. Additional information about our understanding of the differentiation of pluripotent stem cells into the various neural cell types has been included. Particular attention has been focused on the chapters describing retinal epithelium and neuroglial differentiation, […]

Contents
Defining Neural Stem Cells and Their Role in Normal Development of the Nervous System.
Embryonic Stem Cells and Neurogenesis.
- The Cellular and Molecular Properties of Multipotent Neural Stem Cells.
  Multipotent Stem Cells in the Embryonic Nervous System.
  Neural Crest Formation and Diversification.
  Glial Nature of Adult Neural Stem Cells: Neurogenic Competence in Adult Astrocytes.
  Neural Stem Cell Death Regulation in Nervous System Development and Disease.
  Stem Cells of the Adult Olfactory Epithelium.
  Retinal Stem Cells.
  Transdifferentiation in the Nervous System.
Neural[…]

Fields of interest
Neurosciences

Target groups
Research

Type of publication
Contributed volume

Usually dispatched within 3 to 5 business days.

2012, XII, 500 p. 27 illus., 14 in color. (Stem Cell Biology and Regenerative Medicine) Hardcover
169,95 €
ISBN 978-1-4614-3800-7
New Frontiers of Network Analysis in Systems Biology

The rapidly developing field of systems biology is influencing many aspects of biological research and is expected to transform biomedicine. Some emerging offshoots and specialized branches in systems biology are receiving particular attention and are becoming highly active areas of research. This collection of invited reviews describes some of the latest cutting-edge experimental and computational advances in these emerging subfields of systems biology. In particular, this collection focuses on the study of mammalian embryonic stem cells; new technologies involving mass-spectrometry proteomics; single cell measurements; methods for modeling complex stochastic systems; network-based classification algorithms; and the revolutionary emerging field of systems pharmacology.

Features

Contents

Fields of interest
Biomedicine (general); Cell Biology; Systems Biology; Proteomics; Gene Expression; Biotechnology

Target groups
Research

Type of publication
Contributed volume

Usually dispatched within 3 to 5 business days.

2012. X, 199 p. 31 illus., 6 in color. Hardcover
139,95 €
ISBN 978-94-007-4329-8

Biomedicine 9

Noback’s Human Nervous System, Seventh Edition

Structure and Function
With this seventh edition, Noback’s Human Nervous System: Structure and Function continues to combine clear prose with exceptional original illustrations that provide a concise lucid depiction of the human nervous system. The book incorporates recent advances in neurobiology and molecular biology. Several chapters have been substantially revised. These include Development and Growth, Blood Circulation and Imaging, Cranial Nerves and Chemical Senses, Auditory and Vestibular Systems, Visual System, and Cerebral Cortex. Topics such as neural regeneration, plasticity and brain imaging are discussed. Each edition of The Human Nervous System has featured a set of outstanding illustrations drawn by premier medical artist Robert J. Demarest. Many of the figures from past editions have been modified and/or enhanced by the addition of color, which provides a more detailed visualization of the nervous system. Highly praised in its earlier versions, this new edition offers medical, dental, allied...,...

Features
With this seventh edition, Noback’s The Human Nervous System: Structure and Function continues to combine clear prose with exceptional original illustrations that provide a concise lucid depiction of the human nervous system. The book incorporates recent advances in neurobiology and molecular biology. Several chapters have been substantially revised. These include Development and Growth, Blood...

Contents

Fields of interest
Neurosciences

Target groups
Professional/practitioner

Type of publication
Monograph

Usually dispatched within 3 to 5 business days.

2012. XXVI, 469 p. 195 illus., 98 in color. Hardcover
149,95 €

Pediatric Cancer, Volume 3
Diagnosis, Therapy, and Prognosis

Brain tumors are the most common solid tumor of childhood as well as the leading cause of cancer-related mortality in children. This third volume of the Springer series discussing pediatric cancer focuses on diagnosing, treating, and assessing the future course of malignant brain neoplasms in children. In addition to a general introduction to the principals involved, the material includes vital research in molecular genetics, a major contribution to the molecular characterization of solid tumors, which will define new biomarkers of the disease and identify molecular pathways. Now it has become possible to achieve the goal of targeting new, more effective therapies to minimize the tragedy faced by children. This research features the application of molecular genetics in combating atypical teratoid/rhabdoid tumor (AT/RT), a highly aggressive embryonal CNS tumor that is among the most common malignant neoplasms in children, with a peak occurrence in infants younger than three years old. Contributors...

Features
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Contents
1. Teratoid/rhabdoid.1 Early childhood atypical teratoid/rhabdoid tumors.2 Atypical teratoid/ rhabdoid tumors.3 Pediatric teratoid/rhabdoid tumours: deletion of chromosome 22q11.2.4 Pediatric atypical teratoid/rhabdoid tumors: role of in11 tumor suppressor gene.5 Atypical teratoid/ rhabdoid tumors: diagnosis using imaging.6 Pediatric atypical teratoid/rhabdoid tumor in the spine: diagnosis and treatment.7 Early childhood clival-c2 atypical teratoid/rhabdoid tumor: gross total resection followed by aggressive chemotherapy and radiation.8 Pediatric atypical teratoid/rhabdoid tumors...

Fields of interest
Cancer Research; Pediatrics; Primary Care Medicine; Oncology; Pediatric Surgery

Target groups
Research

Type of publication
Contributed volume

Usually dispatched within 3 to 5 business days.

2012. XXXI, 301 p. 45 illus., 25 in color. (Pediatric Cancer, Vol. 3) Hardcover
149,95 €
ISBN 978-94-007-4527-8
Pharmaceutical Competitive Intelligence for the Regulatory Affairs Professional

This Brief defines competitive intelligence (CI) as a tool for making investment decisions within the pharmaceutical industry. It provides an overview of processes that the regulatory affairs professional must take into account when evaluating data impacting product labeling on the sales forecast over a limited timeframe. The Brief also provides an overview of intellectual property assessment that can impact a product’s lifespan on the market due to patent protection itself (or loss of patent protection) or via regulatory exclusivity. Case examples are discussed to illustrate the importance of keeping up with the ever-changing regulations, and how to interpret them in the context of CI. In addition, there is a section on virtual data rooms (VDRs) which currently function as the cornerstone of due diligence investigations. While aimed primarily at[...]

Features
None.

Contents
This Brief defines competitive intelligence (CI) as a tool for making investment decisions within the pharmaceutical industry. It provides an overview of processes that the regulatory affairs professional must take into account when evaluating data impacting product-based risk evaluations. These apply particularly to evaluations that focus on outputs such as regulatory approval, or the commercial impact of product labeling on the sales forecast over a limited timeframe. The Brief also provides an overview of intellectual property assessment that can impact a product’s lifespan on the[...]

Fields of interest
Pharmaceutical Sciences / Technology

Target groups
Professional/practitioner

Type of publication
Brief

Usually dispatched within 3 to 5 business days.

Protein Kinase Technologies

Divided into two convenient sections, Protein Kinase Technologies collects contributions from experts in the field examining recent methodologies and techniques generally applicable to protein kinase research as well as to individual protein kinases which require special attention in neuroscience. These chapters will not only be practical instructions useful for readers’ daily work in setting up and performing research but also thought-provoking and enjoyable reviews of recent advancements of individual protein kinases in neuroscience. Written for the highly successful Neureomethods series, this work contains the kind of detailed description and implementation advice that is crucial for getting optimal results. Authoritative and accessible, Protein Kinase Technologies seeks to foster cross-talk among investigators who study different protein kinases, and will also be beneficial for the entry of new investigators into this pivotal field.

Features
Divided into two convenient sections, Protein Kinase Technologies collects contributions from experts in the field examining recent methodologies and techniques generally applicable to protein kinase research as well as to individual protein kinases which require special attention in neuroscience. These chapters will not only be practical instructions useful for readers’ daily work in setting up and[...]

Contents
Visualization of Protein Kinase Activities in Living Cells: Phos-Tag Affinity Electrophoresis for Protein Kinase Profiling.[...]

Fields of interest
Neurosciences; Human Physiology

Target groups
Professional/practitioner

Type of publication
Contributed volume

Usually dispatched within 3 to 5 business days.
Retinal Development

Methods and Protocols

In recent years, there have been major advances in the concepts and methodologies used in the study of retinal development at both cellular and molecular levels. These advanced methodologies have allowed and will continue to allow researchers to gain new insights into the molecular mechanisms underlying retinal development. In Retinal Development: Methods and Protocols, expert researchers in the field detail many of the protocols used for a wide range of experiments. These include protocols and techniques for manipulating gene expression in vivo, tracing cell fates with modernized classic blastomere manipulation in Xenopus and with Cre-based technique in mouse and in zebrafish, retinal regeneration and stem cell-based replacement, and ERG (function) recording and non-invasive imaging. Written in the highly successful Methods in Molecular Biology™ series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily usable protocols.

Features

In recent years, there have been major advances in the concepts and methodologies used in the study of retinal development. In Retinal Development: Methods and Protocols, expert researchers in the field detail many of the protocols used for a wide range of experiments. These include protocols and techniques for manipulating gene expression in vivo, tracing cell fates with modernized classic blastomere manipulation in Xenopus and with Cre-based technique in mouse and in zebrafish, retinal regeneration and stem cell-based replacement, and ERG (function) recording and non-invasive imaging. Written in the highly successful Methods in Molecular Biology™ series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily usable protocols.

Contents

Conditional Control of Gene Expression in the Mouse Retina.- Generation of Transgenic Xenopus Using Restriction Enzyme-Mediated Integration.- In vivo Functional Analysis of Transcriptional Regulator Response Elements.- Interaction using Transgenic Xenopus laevis.- Subretinal Delivery and Electroporation in Pigmented and Nonpigmented Adult Mouse Eyes.- In Ovo Electroporation.- Targeted Microinjection of Synthetic mRNAs to Alter Retina Gene Expression in Xenopus Embryos.- Testing Retina Fate Commitment in Xenopus by Blastomere Deletion, Transplantation and Explant Culture.- Application of Cre-loxP[...]

Fields of interest

Molecular Medicine; Developmental Biology

Target groups

Professional/practitioner

Type of publication

Contributed volume

Usually dispatched within 3 to 5 business days.

Reviews of Physiology, Biochemistry and Pharmacology

Volume 162

Cardiac ion channels and mechanisms for protection against atrial fibrillation. Intrinsically photosensitive retinal ganglion cells. Quantifying and modeling the temperature-dependent gating of TRP channels.

Features


Fields of interest

Human Physiology

Target groups

Research

Type of publication

Contributed volume

Usually dispatched within 3 to 5 business days.

Sensing the Environment: Regulation of Local and Global Homeostasis by the Skin's Neuroendocrine System

The skin, the body's largest organ, is strategically located at the interface with the external environment where it detects, integrates and responds to a diverse range of stressors, including solar radiation. It has already been established that the skin is an important peripheral neuroendocrine-immune organ that is closely networked with central regulatory systems. These capabilities contribute to the maintenance of peripheral homeostasis. Specifically, epidermal and dermal cells produce and respond to classical stress neurotransmitters, neuropeptides and hormones, production which is stimulated by ultraviolet radiation (UVR), biological factors (infectious and non-infectious) and other physical and chemical agents. Examples of local biologically active products are cytokines, biogenic amines (catecholamines, histamine, serotonin and N-acetyl-serotonin), melanin, acetylcholine, neuropeptides including pituitary TRP channels.

Features

The skin, the body's largest organ, is strategically located at the interface with the external environment where it detects, integrates and responds to a diverse range of stressors, including solar radiation. It has already been established that the skin is an important peripheral neuroendocrine-immune organ that is closely networked with central regulatory systems. These capabilities contribute to the [...]
Serotonin and Anxiety

Neuroanatomical, Pharmacological, and Functional Aspects

Anxiety disorders have long been a research subject for scientists in different areas of inquiry, and the particular role of serotonin – the neurotransmitter which has probably most captured the imagination of laymen and academics alike – is as elusive as the clinical aspects of serotonergic medications. Why are drugs acting at certain serotonin receptors efficacious against generalized anxiety disorder, but not panic disorder? Why is the inverse true for monoamine oxidase inhibitors? These clinically relevant issues are clarified by the neurochemical, anatomical and physiological organization of the serotonergic system. In this book, the author summarizes the latest findings regarding the role of serotonin in modulating the activity of brain regions which organize behavioral patterns associated with fear, anxiety and stress. The emergent picture is one of far greater complexity than previously thought: while the serotonergic innervation of those brain regions arises from the same structure – the[...]

Contents


Fields of interest
Neurosciences; Psychiatry; Neurology

Target groups
Graduate

Type of publication
Brief

Usually dispatched within 3 to 5 business days.

2012. X, 111 p. 7 illus., 5 in color. (SpringerBriefs in Neuroscience) Softcover
49,95 €

Stem Cells and Cancer Stem Cells, Volume 7

Therapeutic Applications in Disease and Injury

The seventh in Springer’s landmark series of edited volumes on one of the highest-profile subjects in contemporary medicine and scientific endeavour, this volume sets out to cover a staggering range of research into the medical applications of stem cell research. While stem cells are the very stuff of life for multicellular organisms, including us humans, the cancer stem cell is a morbid entity with a robust resistance to therapies including conventional chemotherapy. This authoritative publication explains the regenerative potential of stem cells and their mesenchymal progeny, reviewing clinical applications of the latter in the treatment of cancer, diabetes and neurodegenerative pathologies. It covers the entire range of stem cells with known potential for therapeutic use, from human embryonic to germ cell-derived pluripotent stem cells and hematopoietic stem cells. The chapters also deal with the role of TGF-beta in propagating human embryonic stem cells, and in facilitating their[...]

Contents

Preface. I. Regenerative medicine. - Mesenchymal stem cell expansion for therapeutic application. - Mobilization of pluripotent stem cells in patients with myocardial ischemia: from the bench to bedside. - Role of induced pluripotent stem cells in regenerative medicine. - Sulforaphane as new therapeutic agent for targeting of cancer stem cells with focus to prostate and pancreatic cancer. - Technology platforms for heart regenerative therapy using pluripotent stem cells. - Myocardial regeneration of adipose tissue-derived stem cells. - Differentiation, paracrine, fusion mechanisms. - Fields of interest
Cancer Research; Oncology; Stem Cells; Neurobiology; Blood Transfusion Medicine; Biomedicine (general)

Type of publication
Contributed volume

Usually dispatched within 3 to 5 business days.

2012. XXII, 278 p. 50 illus., 38 in color. (Stem Cells and Cancer Stem Cells, Vol. 7) Hardcover
149,95 €
ISBN 978-94-007-4284-0
Tumors of the Central Nervous System, Volume 8


Fields of interest
Cancer Research; Oncology; Pathology; Neurosciences; Primary Care Medicine

Target groups
Research

Type of publication
Contributed volume

Usually dispatched within 3 to 5 business days.

2012. XXXVII, 338 p. 50 illus., 38 in color. (Tumors of the Central Nervous System, Vol. 8) Hardcover

149,95 €
ISBN 978-94-007-4212-3

Victor McKusick and the History of Medical Genetics

This book is being planned as a tribute to Dr. Victor A. McKusick (1921-2008), who is well known as the "father of medical genetics". His seminal contributions to all aspects of medical genetics have led to the establishment of a distinct discipline. As a clinician, teacher, scientist, historian and author, McKusick's role is unparalleled. He was a founding member and the first President of the Human Genome Organization (HUGO). He performed an outstanding service[...]

Fields of interest
Human Genetics; Molecular Medicine; History of Medicine; Biomedicine (general)

Target groups
Research

Type of publication
Contributed volume

Usually dispatched within 3 to 5 business days.

2012. XIV, 232 p. 44 illus., 18 in color. Hardcover

139,95 €
ISBN 978-1-4614-1676-0
Visualization Techniques

From Immunohistochemistry to Magnetic Resonance Imaging

Visualization of chemicals in tissues has seen incredible advances in the past several years. Visualization Techniques: From Immunohistochemistry to Magnetic Resonance Imaging provides practical advice from experts in the field as well as an excellent overview of some of the most important recent advances in visualization. This timely volume explores topics from immunohistochemistry for multiple neurochemicals, detecting expression levels of neurochemicals, following cellular processes and ionic movement, identifying polysynaptic pathways subserving physiological responses to identifying functional changes in vivo. Written for the popular Neuromethods series, this work includes the kind of detailed description and implementation advice that is crucial for getting optimal results in the lab. Meticulous and concise, Visualization Techniques: From Immunohistochemistry to Magnetic Resonance Imaging will prove invaluable for scientists seeking to gain a greater understanding of the practical skills.

Contents

Multiple Immunohistochemical Labelling of Peripheral Neurons.- Combined In Situ Hybridization and Immunohistochemistry in Tat Brain Tissue Using Digoxygenin Labelled Riboprobes.- In Situ Hybridization within the CNS Tissue: Combining In Situ Hybridization with Immunofluorescence.- Visualizing GABAB Receptor Internalization and Intracellular Trafficking.- Using Total Internal Reflection Fluorescence Microscopy (TIRFM) to Visualize Insulin Action.- Live-Cell Quantification of Mitochondrial Functional Parameters.- Functional Imaging Using Two-Photon Microscopy in Living Tissue.- Calcium...[...]

Fields of interest

Neurosciences; Neurochemistry; Diagnostic Radiology

Target groups

Professional/practitioner

Type of publication

Contributed volume

Usually dispatched within 3 to 5 business days.

2012, XII, 316 p. 80 illus., 51 in color. (Neuromethods, Vol. 70) Hardcover

109,95 €

Zebrafish Protocols for Neurobehavioral Research

Zebrafish (Danio rerio) play an integral role in biomedical research, enabling researchers to examine physiological mechanisms and pathways relevant to human pathogenesis and its therapy. That, along with their low cost, easy manipulation, short reproductive cycles, and physiological homology to humans, has made zebrafish a vital model organism for neuroscience research. Zebrafish Protocols for Neurobehavioral Research addresses protocols for both larval and adult models, written by the leading experts in the field of zebrafish research. Part I of this book takes advantage of the high-throughput nature of larval models to offer protocols for research requiring high output, easily manipulated screens. The second half of the book focuses on the robust and sophisticated behaviors of adult zebrafish, suitable for the neurophenotyping of complex traits and multi-domain disorders. Importantly, these models complement each other, working together to provide researchers with valuable insights into[...]

Features

Zebrafish (Danio rerio) play an integral role in biomedical research, enabling researchers to examine physiological mechanisms and pathways relevant to human pathogenesis and its therapy. That, along with their low cost, easy manipulation, short reproductive cycles, and physiological homology to humans, has made zebrafish a vital model organism for neuroscience research. Zebrafish Protocols for[...]
Click Triazoles


Computer-Aided Tissue Engineering

The recent revolution in the biological sciences and bioengineering, along with the advancements of modern design and manufacturing, biomaterials, biology, and biomedicine, have brought about the new field of computer-aided tissue engineering. Advances in this fascinating new area of study encompass broad applications in large-scale tissue engineering fabrication, artificial organs, orthopaedic implants, and biological chips. Computer-Aided Tissue Engineering highlights the interdisciplinary nature of this topic and reviews the current state of computer-aided three-dimensional tissue modeling, tissue classification, and tissue fabrication and implantation. Particular focus is placed on rapid prototyping and direct digital fabrication for cell and organs, construction of tissue analogs, and precursors to 3D tissue scaffolds. Written for the highly successful Methods in Molecular Biology™ series, this work provides the kind of detailed description and implementation advice that is crucial for...
Electron Density and Chemical Bonding I

Experimental Charge Density Studies

D. Stalke, University of Goettingen, Germany (Ed.)

Electron Density and Chemical Bonding II

Theoretical Charge Density Studies

D. Stalke, University of Goettingen, Germany (Ed.)

Epoxidations and Hydroperoxidations of α,β-Unsaturated Ketones

An Approach through Asymmetric Organocatalysis

C. Reisinger, Evonik Industries AG, Hanau-Wolfgang, Germany

Corinna Reisinger has developed a new organocatalytic asymmetric epoxidation of cyclic and acyclic α,β-unsaturated ketones. In this thesis, Corinna documents her methodology, using primary amine salts as catalysts, and hydrogen peroxide as an inexpensive and environmentally benign oxidant. She describes the unprecedented and powerful catalytic asymmetric hydroperoxidation of α,β- enones, a process which produces optically active five-membered cyclic peroxyhemiketals in a single operation. She also proves the versatility and synthetic value of the cyclic peroxyhemiketals by converting them into highly enantoienriched acyclic and cyclic aldol products. Currently, these cyclic aldol products are inaccessible by any other synthetic means. Furthermore, cyclic peroxyhemiketals are precursors to optically active 1,2-dioxolanes which are of biological relevance. This work is a breakthrough in the field of asymmetric epoxidation chemistry and outlines the most efficient method in the literature for [...]
**Functional Foods and Nutraceuticals**

“Functional food or medicinal food is any fresh or processed food claimed to have a health-promoting and/or disease-preventing property beyond the basic nutritional function of supplying nutrients, although there is no consensus on an exact definition of the term. This is emerging field in food science, in which such foods are usually accompanied by health claims for marketing purposes, such as a company’s cereal is a significant source of fiber. Studies have shown that an increased amount of fiber in one’s diet can decrease the risk of certain types of cancer in individuals. Functional foods are sometimes called nutraceuticals, a portmanteau of nutrition and pharmaceutical, and can include food that has been genetically modified. The general category includes processed food made from functional food ingredients, or fortified with health-promoting additives, like ‘vitamin-enriched’ products, and also fresh foods (e.g., vegetables) that have specific claims attached. Fermented foods with live […]

**Features**
- This book provides a mechanistic approach to explaining the health benefits associated with food-derived nutrients. Divided into two parts, the first part discusses the influence of the major food nutrients (carbohydrates, proteins, and lipids) on the metabolic processes that are involved in human chronic diseases. For example, the potential of carotenoids to reduce cholesterol absorption and enhance […]

**Contents**

**Fields of interest**
- Food Science; Chemistry (general); Nutrition

**Target groups**
- Upper undergraduate

**Type of publication**
- Graduate/advanced undergraduate textbook

**Usually dispatched within 3 to 5 business days.**

2012. XII, 155 p. 26 illus. (Food Science Text Series) Hardcover
59.95 €

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**Homogeneous Catalysis with Metal Complexes**

**Fundamentals and Applications**

The book about homogeneous catalysis with metal complexes deals with the description of the reductive-oxidative, metal complexes in a liquid phase (in polar solvents, mainly in water, and less in nonpolar solvents). The exceptional importance of the redox processes in chemical systems, in the reactions occurring in living organisms, the environmental processes, atmosphere, water, soil, and in industrial technologies (especially in food-processing industries) is discussed. The detailed practical aspects of the established regularities are explained for solving the specific practical tasks in various fields of industrial chemistry, biochemistry, medicine, analytical chemistry and ecological chemistry. The main scope of the book is the survey and systematization of the latest advances in homogeneous catalysis with metal complexes. It gives an overview of the research results and practical experience accumulated by the author during the last decade.

**Features**
- The book about homogeneous catalysis with metal complexes deals with the description of the reductive-oxidative, metal complexes in a liquid phase (in polar solvents, mainly in water, and less in nonpolar solvents). The exceptional importance of the redox processes in chemical systems, in the reactions occurring in living organisms, the environmental processes, atmosphere, water, soil, and in industrial […]

**Contents**

**Fields of interest**
- Catalysis; Industrial Chemistry / Chemical Engineering; Surface and Interface Science, Thin Films; Applied and Technical Physics; Food Science; Surfaces and Interfaces, Thin Films

**Target groups**
- Research

**Type of publication**
- Monograph

**Usually dispatched within 3 to 5 business days.**

119.95 €
ISBN 978-3-642-24628-9

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**Ion Exchange Technology II**

**Applications**

Ion-exchange Technology II: Applications presents an overview of the numerous industrial applications of ion-exchange materials. In particular, this volume focuses on the use of ion-exchange materials in various fields including chemical and biochemical separations, water purification, biomedical science, toxic metal recovery and concentration, waste water treatment, catalysis, alcohol beverage, sugar and milk technologies, pharmaceuticals industry and metallurgical industries. This title is a highly valuable resource not only to postgraduate students and researchers but also to industrial R&D specialists in chemistry, chemical, and biochemical technology as well as to engineers and industrialists.

**Features**
- Ion-exchange Technology II: Applications presents an overview of the numerous industrial applications of ion-exchange materials. In particular, this volume focuses on the use of ion-exchange materials in various fields including chemical and biochemical separations, water purification, biomedical science, toxic metal recovery and concentration, waste water treatment, catalysis, alcohol […]

**Contents**

**Fields of interest**
- Inorganic Chemistry; Industrial Chemistry / Chemical Engineering; Biotechnology; Biochemical Engineering; Chemistry (general); Waste Management / Waste Technology

**Target groups**
- Research

**Type of publication**
- Monograph

**Usually dispatched within 3 to 5 business days.**

2012. XXXVI, 434 p. 71 illus., 3 in color. Hardcover
129.95 €
ISBN 978-3-642-24625-8
Orthogonal Supramolecular Interaction Motifs for Functional Monolayer Architectures

Deniz Yılmaz’ thesis describes a combination of orthogonal supramolecular interactions for the design of functional monolayer architectures on surfaces, that can be used as chemical and biosensors in a wide range of applications. The term "orthogonal supramolecular interactions" refers to non-covalent interactions that do not influence each other’s assembly properties. Orthogonal self-assembly thus allows extended control over the self-assembly process and promotes new materials properties. The first part of the thesis employs orthogonal host-guest and lanthanide-ligand coordination interaction motifs to create supramolecular luminescent monolayers. The second part of the thesis describes the fabrication of functional monolayers on silicon and gold substrates for applications in electronics. The results illustrate the power of weak supramolecular interactions to direct the immobilization of functional systems on surfaces. The combination of host-guest and lanthanide-ligand coordination interaction allows [...]
Structure-Property Relationships in Non-Linear Optical Crystals I

The UV-Vis Region


Contents


Fields of interest

Inorganic Chemistry; Applied Optics; Optoelectronics, Optical Devices; Optical and Electronic Materials

Target groups

Research

Type of publication

Contributed volume

Usually dispatched within 3 to 5 business days.

2012, XIII, 236 p. 186 illus., 94 in color. (Structure and Bonding, Vol. 144) Hardcover

229.00 €
ISBN 978-3-642-29617-8

Abstract State Machines, Alloy, B, VDM, and Z


This book constitutes the proceedings of the Third International Conference on Abstract State Machines, B, VDM, and Z, which took place in Pisa, Italy, in June 2012. The 20 full papers presented together with 2 invited talks and 13 short papers were carefully reviewed and selected from 59 submissions. The ABZ conference series is dedicated to the cross-fertilization of five related state-based and machine-based formal methods: Abstract State Machines (ASM), Alloy, B, VDM, and Z. They share a common conceptual foundation and are widely used in both academia and industry for the design and analysis of hardware and software systems. The main goal of this conference series is to contribute to the integration of these formal methods, clarifying their commonalities and differences to better understand how to combine different approaches for accomplishing the various tasks in modeling, experimental validation and mathematical verification of reliable high-quality hardware/software systems.

Fields of interest

Logic and the Meanings of Programs; Algorithms and Problem Complexity; Computation by Abstract Devices; Mathematics of Computing; Discrete Mathematics in Computer Science

Target groups

Research

Type of publication

Proceedings

Online orders shipping within 2-3 days.


54.00 €
ISBN 978-3-642-30884-0
This book constitutes the thoroughly refereed proceedings of eight international workshops held in Gdańsk, Poland, in June 2012. The 35 full and 17 short revised papers were carefully selected from 104 submissions. The eight workshops were Agility of Enterprise Systems (AgilES), Business/IT Alignment and Interoperability (BUSTIAL), Enterprise and Organizational Modeling and Simulation (EOMAS), Governance, Risk and Compliance (GRCiS), Human-Centric Process-Aware Information Systems (HC-PAIS), System and Software Architectures (IWSSA), Ontology, Models, Conceptualization and Epistemology in Social, Artificial and Natural Systems (ONTOSE), and Information Systems Security Engineering (WISSE).

Features
This book constitutes the thoroughly refereed proceedings of eight international workshops held in Gdańsk, Poland, in conjunction with the 24th International Conference on Advanced Information Systems Engineering, CAiSE 2012, held in Gdańsk, Poland, in June 2012. The 35 full and 17 short revised papers were carefully selected from 104 submissions. The eight workshops were Agility of Enterprise Systems (AgilES), Business/IT Alignment and Interoperability (BUSTIAL), Enterprise and Organizational Modeling and Simulation (EOMAS), Governance, Risk and Compliance (GRCiS), Human-Centric Process-Aware Information Systems (HC-PAIS), System and Software Architectures (IWSSA), Ontology, Models, Conceptualization and Epistemology in Social, Artificial and Natural Systems (ONTOSE), and Information Systems Security Engineering (WISSE).

Fields of interest
Information Systems Applications (incl. Internet); Software Engineering; Business Information Systems; Computer Appl. in Administrative Data Processing; Artificial Intelligence (incl. Robotics)

Target groups
Research

Type of publication
Proceedings

Online orders shipping within 2-3 days.

2012. Approx. 640 p. 235 illus. (Lecture Notes in Artificial Intelligence, Vol. 112) Softcover

79,00 €
ISBN 978-3-642-31068-3

J. Ralýté, University of Geneva, Switzerland; X. Franch, Technical University of Catalonia, Barcelona, Spain; S. Brinkkemper, Utrecht University, The Netherlands; S. Wrycza, University of Gdańsk, Poland (Eds.)

Advanced Information Systems Engineering


This book constitutes the refereed proceedings of the 24th International Conference on Advanced Information Systems Engineering, CAiSE 2012, held in Gdańsk, Poland, in June 2012. The 42 revised full papers, 2 full-length invited papers and 4 short tutorial papers, were carefully reviewed and selected from 297 submissions. The contributions have been grouped into the following topical sections: business process model analysis; service and component composition; E-Society and models; system variants and configuration; process mining; requirements and goal models; compliance; monitoring and prediction; services; case studies; business process design; feature models and product lines; and human factors.

Features
This book constitutes the refereed proceedings of the 24th International Conference on Advanced Information Systems Engineering, CAiSE 2012, held in Gdańsk, Poland, in June 2012. The 42 revised full papers, 2 full-length invited papers and 4 short tutorial papers, were carefully reviewed and selected from 297 submissions. The contributions have been grouped into the following topical sections: business process model analysis; service and component composition; E-Society and models; system variants and configuration; process mining; requirements and goal models; compliance; monitoring and prediction; services; case studies; business process design; feature models and product lines; and human factors.

Fields of interest
Information Systems Applications (incl. Internet); Information and Communication Service; Software Engineering; Database Management; Artificial Intelligence (incl. Robotics); Computer Appl. in Administrative Data Processing

Target groups
Research

Type of publication
Proceedings

Online orders shipping within 2-3 days.

2012. XVI, 421 p. 146 illus. (Lecture Notes in Artificial Intelligence, Vol. 7366) Softcover

62,00 €
ISBN 978-3-642-31560-2

H. Zhang, Northeastern University, Shenyang, China; A. Hussain, University of Stirling, UK; D. Liu, Institute of Automation, Chinese Academy of Sciences, Beijing, China; Z. Wang, Northeastern University, Shenyang, China (Eds.)

Advances in Brain Inspired Cognitive Systems

5th International Conference, BICS 2012, Shenyang, Liaoning, China, July 11-14, 2012 Proceedings

This book constitutes the refereed proceedings of the 5th International Conference on Brain Inspired Cognitive Systems, BICS 2012, held in Shenyang, Liaoning, China in July 2012. The 46 high-quality papers presented were carefully reviewed and selected from 116 submissions. The papers are organized in topical sections on biologically inspired systems, cognitive neuroscience, models of consciousness, and neural computation.

Features
This book constitutes the refereed proceedings of the 5th International Conference on Brain Inspired Cognitive Systems, BICS 2012, held in Shenyang, Liaoning, China in July 2012. The 46 high-quality papers presented were carefully reviewed and selected from 116 submissions. The papers are organized in topical sections on biologically inspired systems, cognitive neuroscience, models of consciousness, and neural computation.

Fields of interest
Artificial Intelligence (incl. Robotics); Information Systems Applications (incl. Internet); Database Management; Information Storage and Retrieval; Pattern Recognition; Computation by Abstract Devices

Target groups
Research

Type of publication
Proceedings

Online orders shipping within 2-3 days.

2012. XVI, 251 p. 146 illus. (Lecture Notes in Artificial Intelligence, Vol. 7336) Softcover

62,00 €
ISBN 978-3-642-31560-2
### Advances in Neural Networks – ISNN 2012


The two-volume set LNCS 7367 and 7368 constitutes the refereed proceedings of the 9th International Symposium on Neural Networks, ISNN 2012, held in Shenyang, China, in July 2012. The 147 revised full papers presented were carefully reviewed and selected from numerous submissions. The contributions are structured in topical sections on mathematical modeling; neurodynamics; cognitive neuroscience; learning algorithms; optimization; pattern recognition; vision; image processing; information processing; neurocontrol; and novel applications.

#### Features

- Computation by Abstract Devices; Artificial Intelligence (incl. Robotics); Pattern Recognition; Image Processing and Computer Vision; Mathematical Logic and Formal Languages; Algorithm Analysis and Problem Complexity

#### Target groups

Research

#### Type of publication

Proceedings

Online orders shipping within 2-3 days.


87,00 €

ISBN 978-3-642-31345-5

### Advances in Neural Networks – ISNN 2012

9th International Symposium on Neural Networks, ISNN 2012, Shenyang, China, July 11-14, 2012. Proceedings, Part II

The two-volume set LNCS 7367 and 7368 constitutes the refereed proceedings of the 9th International Symposium on Neural Networks, ISNN 2012, held in Shenyang, China, in July 2012. The 147 revised full papers presented were carefully reviewed and selected from numerous submissions. The contributions are structured in topical sections on mathematical modeling; neurodynamics; cognitive neuroscience; learning algorithms; optimization; pattern recognition; vision; image processing; information processing; neurocontrol; and novel applications.

#### Features

- Computation by Abstract Devices; Artificial Intelligence (incl. Robotics); Pattern Recognition; Image Processing and Computer Vision; Mathematical Modeling and Industrial Mathematics; Algorithm Analysis and Problem Complexity

#### Target groups

Research

#### Type of publication

Proceedings

Online orders shipping within 2-3 days.


79,00 €

ISBN 978-3-642-31361-5

### Agent and Multi-Agent Systems: Technologies and Applications


This book constitutes the refereed proceedings of the 6th KES International Conference on Agent and Multi-Agent Systems, KES-AMSTA 2012, held in Dubrovnik, Croatia, in June 2012. The conference attracted a substantial number of researchers and practitioners from all over the world who submitted their papers for ten main tracks covering the methodology and applications of agent and multi-agent systems, one workshop (TRUMAS 2012) and five special sessions on specific topics within the field. The 66 revised papers presented were carefully reviewed and selected for inclusion in the book. The papers are organized in topical sections on virtual organizations, knowledge and learning agents, intelligent workflow, cloud computing and intelligent systems, self-organization, ICT-based alternative and augmentative communication, multi-agent systems, mental and holonic models, assessment methodologies in multi-agent and other paradigms, business processing agents, Trumas 2012 (first international workshop). [...]
Agile Modellierung mit UML

B. Rumpe, RWTH Aachen

Codegenerierung, Testfälle, Refactoring


Features


Contents


Fields of interest

Processor Architectures; Software Engineering / Programming and Operating Systems; Software Engineering

Target groups

Professional/practitioner

Type of publication

Professional book

Usually dispatched within 3 to 5 business days.


46,68 €

ISBN 978-3-642-22429-4
Application and Theory of Petri Nets

This book constitutes the refereed proceedings of the 33rd International Conference on Applications and Theory of Petri Nets and Concurrency, PETRI NETS 2012, held in Hamburg, Germany, in June 2012. The 18 regular papers and 3 tool papers presented were carefully reviewed and selected from 55 submissions. The book also contains 2 invited talks. All current issues on research and development in the area of Petri nets and related models of concurrent systems are addressed.

Features
This book constitutes the refereed proceedings of the 33rd International Conference on Applications and Theory of Petri Nets and Concurrency, PETRI NETS 2012, held in Hamburg, Germany, in June 2012. The 18 regular papers and 3 tool papers presented were carefully reviewed and selected from 55 submissions. The book also contains 2 invited talks. All current issues on research and development in the area of Petri nets and related models of concurrent systems are addressed.

Fields of interest
Computation by Abstract Devices; Software Engineering; Logics and Meanings of Programs; Probability and Statistics in Computer Science; Data Structures

Target groups
Research

Type of publication
Proceedings

Online orders shipping within 2-3 days.

62,00 €
ISBN 978-3-642-31130-7

Automated Configuration Problem Solving

Automated Configuration has long been the subject of intensive research, especially in Artificial Intelligence. It is a pervasive problem to be solved, and it is a good test of various knowledge representation and reasoning techniques. The problem shows up in applications such as various electrical circuit design, utility computing and even concurrent engineering. Automated Configuration Problem Solving defines the ubiquitous problem, illustrates the various solution techniques, and includes a survey using these techniques from the mid-70’s until the mid-90’s. During this time, various general approaches were developed, and then become more specialized. This book covers the development of the general problem solving techniques for automated configuration, which are based on both published academic work and patents.

Features
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Contents

Fields of interest
Artificial Intelligence (incl. Robotics); Computer-Aided Engineering (CAD, CAE) and Design; Engineering Design; Software Engineering; Circuits and Systems

Target groups
Research

Type of publication
Brief

Usually dispatched within 3 to 5 business days.

2012. VII, 38 p. 4 illus. (SpringerBriefs in Computer Science) Softcover
39,95 €
Automated Reasoning

This book constitutes the refereed proceedings of the 6th International Joint Conference on Automated Reasoning, IJCAR 2012, held in Manchester, UK, in June 2012. IJCAR 2012 is a merger of leading events in automated reasoning, namely CADE (International Conference on Automated Deduction), FroCoS (International Symposium on Frontiers of Combining Systems), FTP (International Workshop on First-Order Theorem Proving), and TABLEAUX (International Conference on Automated Reasoning with Analytic Tableaux and Related Methods). The 32 revised full research papers and 9 system descriptions presented together with 3 invited talks were carefully reviewed and selected from 116 submissions. The papers address all aspects of automated reasoning, including foundations, implementations, and applications.

Features
This book constitutes the refereed proceedings of the 6th International Joint Conference on Automated Reasoning, IJCAR 2012, held in Manchester, UK, in June 2012. IJCAR 2012 is a merger of leading events in automated reasoning, namely CADE (International Conference on Automated Deduction), FroCoS (International Symposium on Frontiers of Combining Systems), FTP (International Workshop on First-Order Theorem Proving), and TABLEAUX (International Conference on Automated Reasoning with Analytic Tableaux and Related Methods). The 32 revised full research papers and 9 system descriptions presented together with 3 invited talks were carefully reviewed and selected from 116 submissions. The papers address all aspects of automated reasoning, including foundations, implementations, and applications.

Biomedical Image Registration

This book constitutes the refereed proceedings of the 5th International Workshop on Biomedical Image Registration, WBIR 2012, held in Nashville, Tennessee, USA, in July 2012. The 20 full papers and 11 poster papers included in this volume were carefully reviewed and selected from 44 submitted papers. They full papers are organized in the following topical sections: multiple image sets; brain; non-rigid anatomy; and frameworks and similarity measures.

Features
This book constitutes the refereed proceedings of the 5th International Workshop on Biomedical Image Registration, WBIR 2012, held in Nashville, Tennessee, USA, in July 2012. The 20 full papers and 11 poster papers included in this volume were carefully reviewed and selected from 44 submitted papers. They full papers are organized in the following topical sections: multiple image sets; brain; non-rigid anatomy; and frameworks and similarity measures.

Fields of interest
Hochleistungsrechnen mit Berkeley Open Infrastructure for Network Computing


Features

Contents
Breast Imaging

This book constitutes the refereed proceedings of the 11th International Workshop on Digital Mammography, IWDM 2012, held in Philadelphia, PA, USA, in July 2012. The 42 revised full papers and 58 revised poster papers presented were carefully reviewed and selected from numerous initial submissions. The papers are organized in topical sections on contrast-enhancing imaging, digital mammography methods, tomosynthesis system design, tomosynthesis - image quality and dose, clinical tomosynthesis, functional breast imaging, breast computed tomography, computer-aided diagnosis and image processing, tomosynthesis reconstruction, and breast density.

Features
This book constitutes the refereed proceedings of the 11th International Workshop on Digital Mammography, IWDM 2012, held in Philadelphia, PA, USA, in July 2012. The 42 revised full papers and 58 revised poster papers presented were carefully reviewed and selected from numerous initial submissions. The papers are organized in topical sections on contrast-enhancing imaging, digital mammography methods, [-]

Fields of interest
Image Processing and Computer Vision; Imaging / Radiology; Pattern Recognition; Computer Imaging; Vision, Pattern Recognition and Graphics; Simulation and Modeling

Target groups
Research

Type of publication
Proceedings

Online orders shipping within 2-3 days.


95,00 €
ISBN 978-3-642-31270-0

Combinatorial Pattern Matching
23rd Annual Symposium, CPM 2012, Helsinki, Finland, July 3-5, 2012, Proceedings

This book constitutes the refereed proceedings of the 23rd Annual Symposium on Combinatorial Pattern Matching, CPM 2012, held in Helsinki, Finland, in July 2012. The 33 revised full papers presented together with 2 invited talks were carefully reviewed and selected from 60 submissions. The papers address issues of searching and matching strings and more complicated patterns such as trees, regular expressions, graphs, point sets, and arrays. The goal is to derive non-trivial combinatorial properties of such structures and to exploit these properties in order to either achieve superior performance for the corresponding computational problems or pinpoint conditions under which searches cannot be performed efficiently. The meeting also deals with problems in computational biology, data compression and data mining, coding, information retrieval, natural language processing, and pattern recognition.

Features
This book constitutes the refereed proceedings of the 23rd Annual Symposium on Combinatorial Pattern Matching, CPM 2012, held in Helsinki, Finland, in July 2012. The 33 revised full papers presented together with 2 invited talks were carefully reviewed and selected from 60 submissions. The papers address issues of searching and matching strings and more complicated patterns such as trees, regular [-]

Fields of interest
Pattern Recognition; Algorithm Analysis and Problem Complexity; Numeric Computing; Discrete Mathematics in Computer Science; Data Structures; Computational Biology / Bioinformatics

Target groups
Research

Type of publication
Proceedings

Online orders shipping within 2-3 days.


62,00 €
ISBN 978-3-642-31264-9

Computational Science and Its Applications -- ICCSA 2012

12th International Conference, Salvador de Bahia, Brazil, June 18-21, 2012, Proceedings, Part I

The four-volume set LNCS 7333-7336 constitutes the refereed proceedings of the 12th International Conference on Computational Science and Its Applications, ICCSA 2012, held in Salvador de Bahia, Brazil, in June 2012. The four volumes contain papers presented in the following workshops: 7333 - advances in high performance algorithms and applications (AHPPA); bioinspired computing and applications (BIOCA); computational geometry and applications (CGA); chemistry and materials sciences and technologies (CMST); cities, technologies and planning (CTP); 7334 - ecometrics and multidimensional evaluation in the urban environment (EMEU); geographical analysis, urban modeling, spatial statistics (Geo-An-Mod); 7335 - optimization techniques and applications (OTA); mobile communications (MC); mobile-computing, sensind and actuation for cyber physical systems (MSA4CPS); remote sensing (RS); 7336 - software engineering processes and applications (SEPA); software quality (SQ); security and privacy in[-]

Features
The four-volume set LNCS 7333-7336 constitutes the refereed proceedings of the 12th International Conference on Computational Science and Its Applications, ICCSA 2012, held in Salvador de Bahia, Brazil, in June 2012. The four volumes contain papers presented in the following workshops: 7333 - advances in high performance algorithms and applications (AHPPA); bioinspired computing and applications (BIOCA); [-]

Fields of interest
Computer Communication Networks; Algorithm Analysis and Problem Complexity; Software Engineering; Simulation and Modeling; Information Systems Applications (incl.Internet); Data Mining and Knowledge Discovery

Target groups
Research

Type of publication
Proceedings

Online orders shipping within 2-3 days.


87,00 €
ISBN 978-3-642-31124-6
Computational Science and Its Applications -- ICCSA 2012

12th International Conference, Salvador de Bahia, Brazil, June 18-21, 2012, Proceedings, Part II

The four-volume set LNCS 7333-7336 constitutes the refereed proceedings of the 12th International Conference on Computational Science and Its Applications, ICCSA 2012, held in Salvador de Bahia, Brazil, in June 2012. The four volumes contain papers presented in the following workshops: 7333 - advances in high performance algorithms and applications (AHPPA); bioinspired computing and applications (BIOCA); computational geometry and applications (CGA); chemistry and materials sciences and technologies (CMST); cities, technologies and planning (CTP); 7334 - econometrics and multidimensional evaluation in the urban environment (EMEUE); geographical analysis, urban modeling, spatial statistics (Geo-An-Mod); 7335 - optimization techniques and applications (OTA); mobile communications (MC); mobile-computing, sensor-actuation for cyber physical systems (MSA4CP); remote sensing (RS); 7336 - software engineering processes and applications (SEPA); software quality (SQ); security and privacy in[...]

Features
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Computer Communication Networks; Algorithm Analysis and Problem Complexity; Software Engineering; Simulation and Modeling; Information Systems Applications (incl.Internet); Data Mining and Knowledge Discovery Target groups
Research Type of publication
Proceedings

Online orders shipping within 2-3 days.

87,00 €
ISBN 978-3-642-31074-4

Computational Science and Its Applications -- ICCSA 2012

12th International Conference, Salvador de Bahia, Brazil, June 18-21, 2012, Proceedings, Part III

The four-volume set LNCS 7333-7336 constitutes the refereed proceedings of the 12th International Conference on Computational Science and Its Applications, ICCSA 2012, held in Salvador de Bahia, Brazil, in June 2012. The four volumes contain papers presented in the following workshops: 7333 - advances in high performance algorithms and applications (AHPPA); bioinspired computing and applications (BIOCA); computational geometry and applications (CGA); chemistry and materials sciences and technologies (CMST); cities, technologies and planning (CTP); 7334 - econometrics and multidimensional evaluation in the urban environment (EMEUE); geographical analysis, urban modeling, spatial statistics (Geo-An-Mod); 7335 - optimization techniques and applications (OTA); mobile communications (MC); mobile-computing, sensor-actuation for cyber physical systems (MSA4CP); remote sensing (RS); 7336 - software engineering processes and applications (SEPA); software quality (SQ); security and privacy in[...]

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Fields of interest
Computer Communication Networks; Algorithm Analysis and Problem Complexity; Software Engineering; Simulation and Modeling; Information Systems Applications (incl.Internet); Data Mining and Knowledge Discovery Target groups
Research Type of publication
Proceedings

Online orders shipping within 2-3 days.

87,00 €
ISBN 978-3-642-31127-7

Computational Science and Its Applications -- ICCSA 2012

12th International Conference, Salvador de Bahia, Brazil, June 18-21, 2012, Proceedings, Part IV

The four-volume set LNCS 7333-7336 constitutes the refereed proceedings of the 12th International Conference on Computational Science and Its Applications, ICCSA 2012, held in Salvador de Bahia, Brazil, in June 2012. The four volumes contain papers presented in the following workshops: 7333 - advances in high performance algorithms and applications (AHPPA); bioinspired computing and applications (BIOCA); computational geometry and applications (CGA); chemistry and materials sciences and technologies (CMST); cities, technologies and planning (CTP); 7334 - econometrics and multidimensional evaluation in the urban environment (EMEUE); geographical analysis, urban modeling, spatial statistics (Geo-An-Mod); 7335 - optimization techniques and applications (OTA); mobile communications (MC); mobile-computing, sensor-actuation for cyber physical systems (MSA4CP); remote sensing (RS); 7336 - software engineering processes and applications (SEPA); software quality (SQ); security and privacy in[...]

Features
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Fields of interest
Computer Communication Networks; Algorithm Analysis and Problem Complexity; Software Engineering; Simulation and Modeling; Information Systems Applications (incl.Internet); Data Mining and Knowledge Discovery Target groups
Research Type of publication
Proceedings

Online orders shipping within 2-3 days.

79,00 €
ISBN 978-3-642-31136-9
**Computer Aided Verification**

24th International Conference, CAV 2012, Berkeley, CA, USA, July 7-13, 2012 Proceedings

This book constitutes the refereed proceedings of the 24th International Conference on Computer Aided Verification, CAV 2012, held in Berkeley, CA, USA in July 2012. The 38 regular and 20 tool papers presented were carefully reviewed and selected from 185 submissions. The papers are organized in topical sections on automata and synthesis, inductive inference and termination, abstraction, concurrency and software verification, biology and probabilistic systems, embedded and control systems, SAT/SMT solving and SMT-based verification, timed and hybrid systems, hardware verification, security, verification and synthesis, and tool demonstration.

**Features**

This book constitutes the refereed proceedings of the 24th International Conference on Computer Aided Verification, CAV 2012, held in Berkeley, CA, USA in July 2012. The 38 regular and 20 tool papers presented were carefully reviewed and selected from 185 submissions. The papers are organized in topical sections on automata and synthesis, inductive inference and termination, abstraction, concurrency and [...]  

**Fields of interest**

Logic and Meaning of Programs; Software Engineering; Mathematical Logic and Formal Languages; Artificial Intelligence (incl. Robotics); Special Purpose and Application-Based Systems; Computer Hardware

**Target groups**

Research

**Type of publication**

Proceedings

**Online orders shipping within 2-3 days.**


87,00 €
ISBN 978-3-642-31423-0

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**Computer Networks**


This book constitutes the refereed proceedings of the 19th International Conference on Computer Networks, CN 2012, held in Szczecin, Poland, in June 2012. The 48 revised full papers presented were carefully reviewed and selected for inclusion in the book. The papers address subjects such as new and emerging technologies related to networking fields; fundamentals of computer networks; internet and internetworking; security and safety issues; industrial computer networks; wireless systems and sensor networks; the theory of queues and queuing networks; applications and computer networks usage.

**Features**

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**Fields of interest**

Computer Communication Networks; Systems and Data Security; Information Systems Applications (incl.Internet); System Performance and Evaluation; Software Engineering; Probability and Statistics in Computer Science

**Target groups**

Research

**Type of publication**

Proceedings

**Online orders shipping within 2-3 days.**

2012, XIII, 486 p. (Communications in Computer and Information Science, Vol. 291) Softcover

72,00 €
ISBN 978-3-642-31216-8

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**Controlled Natural Language**


This book constitutes the refereed proceedings of the Second International Workshop on Controlled Natural Language, CNL 2010, held in Marettimo Island, Italy, in September 2010. The 9 revised papers presented in this volume, together with 1 tutorial, were carefully reviewed and selected from 17 initial submissions. They broadly cover the field of controlled natural language, stressing theoretical and practical aspects of CNLs, relations to other knowledge representation languages, tool support, and applications.

**Features**

This book constitutes the refereed proceedings of the Second International Workshop on Controlled Natural Language, CNL 2010, held in Marettimo Island, Italy, in September 2010. The 9 revised papers presented in this volume, together with 1 tutorial, were carefully reviewed and selected from 17 initial submissions. They broadly cover the field of controlled natural language, stressing theoretical and [...]  

**Fields of interest**

Mathematical Logic and Formal Languages; Artificial Intelligence (incl. Robotics); Information Storage and Retrieval; Language Translation and Linguistics; Information Systems Applications (incl.Internet); Document Preparation and Text Processing

**Target groups**

Research

**Type of publication**

Proceedings

**Online orders shipping within 2-3 days.**

2012, IX, 195 p. 32 illus. (Lecture Notes in Artificial Intelligence, Vol. 7175) Softcover

46,00 €
ISBN 978-3-642-31174-1
Correct Reasoning
Essays on Logic-Based AI in Honour of Vladimir Lifschitz

This Festschrift published in honor of Vladimir Lifschitz on the occasion of his 65th birthday presents 39 articles by colleagues from all over the world with whom Vladimir Lifschitz had cooperation in various respects. The 39 contributions reflect the breadth and the depth of the work of Vladimir Lifschitz in logic programming, circumscription, default logic, action theory, causal reasoning and answer set programming.

Features
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Fields of interest
Mathematical Logic and Formal Languages; Artificial Intelligence (incl. Robotics); Logics and Meanings of Programs, Software Engineering, Programming Techniques; Programming Languages, Compilers, Interpreters

Target groups
Research

Type of publication
Proceedings

Online orders shipping within 2-3 days.


79,00 €
ISBN 978-3-642-30742-3

Data Integration in the Life Sciences
8th International Conference, DILS 2012, College Park, MD, USA, June 28-29, 2012, Proceedings

This book constitutes the refereed proceedings of the 8th International Conference on Data Integration in the Life Sciences, DILS 2012, held in College Park, MD, USA, on June 28-29, 2012. The 11 revised papers included in this volume were carefully reviewed and selected. The papers cover the following topics: foundations of data integration, new paradigms for data integration, and integrating clinical data.

Features
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Fields of interest
Information Systems Applications (incl.Internet); Artificial Intelligence (incl. Robotics); Information Storage and Retrieval; Database Management; Data Mining and Knowledge Discovery

Target groups
Research

Type of publication
Proceedings

Online orders shipping within 2-3 days.


46,00 €
ISBN 978-3-642-31222-9

Diagrammatic Representation and Inference
7th International Conference, Diagrams 2012, Canterbury, UK, July 2-6, 2012, Proceedings

This book constitutes the refereed proceedings of the 7th International Conference on Theory and Application of Diagrams, Diagrams 2012, held in Canterbury, UK, in July 2012. The 16 long papers, 6 short papers and 21 poster abstracts presented were carefully reviewed and selected from 83 submissions. The papers are organized in keynotes, tutorial, workshops, graduate student symposium and topical sections on […]

Fields of interest
User Interfaces and Human Computer Interaction; Information Systems Applications (incl.Internet); Computer Graphics; Computers and Society; Artificial Intelligence (incl. Robotics); Discrete Mathematics in Computer Science

Target groups
Research

Type of publication
Proceedings

Online orders shipping within 2-3 days.


54,00 €
ISBN 978-3-642-31222-9
Distributed Applications and Interoperable Systems

This book constitutes the refereed proceedings of the 12th IFIP WG 6.1 International Conference on Distributed Applications and Interoperable Systems, DAIS 2012, held in Stockholm, Sweden, in June 2012 as one of the DisCoTec 2012 events. The 12 revised full papers and 9 short papers presented were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on peer-to-peer and large scale systems; security and reliability in web, cloud, p2p, and mobile systems; wireless, mobile, and pervasive systems; multidisciplinary approaches and case studies, ranging from Grid and parallel computing to multimedia and socio-technical systems; and service-oriented computing and e-commerce.

Features
This book constitutes the refereed proceedings of the 12th IFIP WG 6.1 International Conference on Distributed Applications and Interoperable Systems, DAIS 2012, held in Stockholm, Sweden, in June 2012 as one of the DisCoTec 2012 events. The 12 revised full papers and 9 short papers presented were carefully reviewed and selected from numerous submissions. They explore the use of information technology to improve learning and teaching and showcase innovative pedagogical practices. The papers are organized in topical sections on the construct of student engagement and the applications of ICT; emerging pedagogies through ICT; applications of ICT in teaching and learning; research case studies on ICT in engaged learning; and finally three papers on open textbooks, which address the current problems with conventional textbooks in Hong Kong.

Fields of interest
Computer Communication Networks; Software Engineering; Information Systems Applications (incl.Internet); User Interfaces and Human Computer Interaction; Information Storage and Retrieval; Performance and Reliability

Target groups
Research

Type of publication
Proceedings

Online orders shipping within 2-3 days.


60,00 €
ISBN 978-3-642-30822-2

Engaging Learners Through Emerging Technologies
International Conference on ICT in Teaching and Learning, ICT 2012, Hong Kong, China, July 4-6, 2012. Proceedings

This book constitutes the refereed proceedings of the International Conference on ICT in Teaching and Learning, ICT 2012, held in Hong Kong, China, in July 2012. The 19 revised full papers presented were carefully reviewed and selected from numerous submissions. They explore the use of information technology to improve learning and teaching and showcase innovative pedagogical practices. The papers are organized in topical sections on the construct of student engagement and the applications of ICT; emerging pedagogies through ICT; applications of ICT in teaching and learning; research case studies on ICT in engaged learning; and finally three papers on open textbooks, which address the current problems with conventional textbooks in Hong Kong.

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Fields of interest
Information Systems Applications (incl.Internet); Artificial Intelligence (incl. Robotics); Algorithm Analysis and Problem Complexity; Computer Communication Networks; User Interfaces and Human Computer Interaction; Information Storage and Retrieval

Target groups
Research

Type of publication
Proceedings

Online orders shipping within 2-3 days.

2012, Approx. 240 p. (Communications in Computer and Information Science, Vol. 302) Softcover

56,00 €
ISBN 978-3-642-31397-4

Experimentation in Software Engineering

Like other sciences and engineering disciplines, software engineering requires a cycle of model building, experimentation, and learning. Experiments are valuable tools for all software engineers who are involved in evaluating and choosing between different methods, techniques, languages and tools. The purpose of Experimentation in Software Engineering is to introduce students, teachers, researchers, and practitioners to empirical studies in software engineering, using controlled experiments. The introduction to experimentation is provided through a process perspective, and the focus is on the steps that we have to go through to perform an experiment. The book is divided into three parts. The first part provides a background of theories and methods used in experimentation. Part II then devotes one chapter to each of the five experiment steps: scoping, planning, execution, analysis, and result presentation. Part III completes the presentation with two examples. Assignments and statistical material are[...]

Features
Like other sciences and engineering disciplines, software engineering requires a cycle of model building, experimentation, and learning. Experiments are valuable tools for all software engineers who are involved in evaluating and choosing between different methods, techniques, languages and tools. The purpose of Experimentation in Software Engineering is to introduce students, teachers, [...]

Contents

Fields of interest
Software Engineering; Methodology of the Social Sciences

Target groups
Graduate

Type of publication
Graduate/advanced undergraduate textbook

Usually dispatched within 3 to 5 business days.

2012. XXIII, 236 p. 39 illus. Hardcover

69,95 €
ISBN 978-3-642-29043-5
Fault Analysis in Cryptography

In the 1970s researchers noticed that radioactive particles produced by elements naturally present in packaging material could cause bits to flip in sensitive areas of electronic chips. Research into the effect of cosmic rays on semiconductors, an area of particular interest in the aerospace industry, led to methods of hardening electronic devices designed for harsh environments. Ultimately various mechanisms for fault creation and propagation were discovered, and in particular it was noted that many cryptographic algorithms succumb to so-called fault attacks. Preventing fault attacks without sacrificing performance is nontrivial and this is the subject of this book. Part I deals with side-channel analysis and its relevance to fault attacks. The chapters in Part II cover fault analysis in secret key cryptography, with chapters on block ciphers, fault analysis of DES and AES, countermeasures for symmetric-key ciphers, and countermeasures against attacks on AES. Part III deals with fault analysis in [..]

Features

In the 1970s researchers noticed that radioactive particles produced by elements naturally present in packaging material could cause bits to flip in sensitive areas of electronic chips. Research into the effect of cosmic rays on semiconductors, an area of particular interest in the aerospace industry, led to methods of hardening electronic devices designed for harsh environments. Ultimately various [..]

Contents


Fields of interest

Data Structures, Cryptology and Information Theory; Computer Hardware; Electrical Engineering

Target groups

Research

Type of publication

Monograph

Usually dispatched within 3 to 5 business days.

2012. XVI, 354 p. 98 illus., 35 in color. (Information Security and Cryptography) Hardcover

94,95 €

ISBN 978-3-642-29655-0

Formal Methods for Model-Driven Engineering


This book presents 11 tutorial lectures by leading researchers given at the 12th edition of the International School on Formal Methods for the Design of Computer, Communication and Software Systems, SFM 2012, held in Bertinoro, Italy, in June 2012. SFM 2012 was devoted to model-driven engineering and covered several topics including modeling languages; model transformations, functional and performance modeling and analysis; and model evolution management.

Features

This book presents 11 tutorial lectures by leading researchers given at the 12th edition of the International School on Formal Health for the Design of Computer, Communication and Software Systems, SFM 2012, held in Bertinoro, Italy, in June 2012. SFM 2012 was devoted to model-driven engineering and covered several topics including modeling languages; model transformations, functional and performance modeling and analysis; and model evolution management.

Contents


Fields of interest

Software Engineering; Software Engineering / Programming and Operating Systems; Mathematical Logic and Formal Languages; Programming Languages, Compilers, Interpreters; Information Systems Applications (incl.Internet); Management of Computing and Information Systems

Target groups

Research

Type of publication

Contributed volume

Online orders shipping within 2-3 days.


62,00 €

ISBN 978-3-642-30981-6

From Research to Practice in the Design of Cooperative Systems: Results and Open Challenges


COOP 2012 is the tenth COOP conference, marking twenty years from the first conference in 1992. In this special anniversary edition we asked researchers and practitioners to reflect on what have been the successes and the failures in designing cooperative systems, and what challenges still need to be addressed. We have come a long way in understanding the intricacies of cooperation and in designing systems that support work practices and collective activities. These advances would not have been possible without the concerted effort of contributions from a plethora of domains including CSCW, HCI, Information Systems, Knowledge Engineering, Multi-agent systems, organizational and management sciences, sociology, psychology, anthropology, ergonomics, linguistics, etc. The COOP community is going from strength to strength in developing new technologies, advancing and proposing new methodological approaches, and forging theories.

Features

COOP 2012 is the tenth COOP conference, marking twenty years from the first conference in 1992. In this special anniversary edition we asked researchers and practitioners to reflect on what have been the successes and the failures in designing cooperative systems, and what challenges still need to be addressed. We have come a long way in understanding the intricacies of cooperation and in designing systems [...]

Contents


Fields of interest

Information Systems Applications (incl.Internet); User Interfaces and Human Computer Interaction; Business & Management Science; Industrial and organisational psychology; Cognitive Psychology; Computer Applications

Target groups

Research

Type of publication

Proceedings
### Globalization of Professional Services

**Innovative Strategies, Successful Processes, Inspired Talent Management, and First-Hand Experiences**

In the past, services had a strong local and national focus. Professional services were very likely to be independently and autonomously organized from country to country in order to cater to local needs and local legal requirements. This has since changed radically, and highly integrated business and delivery models around the globe have become the status quo in clients’ businesses and strategies. Serving clients on a global level requires professional services firms to adopt a structural change from local to distributed global sales and delivery. This book brings together many years of experience, current perspectives and future ideas of international business practitioners, academics, and market researchers. Along those lines it is structured into four parts. Part I “Winning Strategies and Innovative Ideas” lays the book’s foundation: it discusses core strategies behind the globalization movement and introduces the major paradigms and ideas. Part II “Successful Processes for Realization” provides [...] 

**Features**

In the past, services had a strong local and national focus. Professional services were very likely to be independently and autonomously organized from country to country in order to cater to local needs and local legal requirements. This has since changed radically, and highly integrated business and delivery models around the globe have become the status quo in clients’ businesses and strategies. Serving [...] 

**Contents**


**Fields of interest**

The Computer Industry; Project Management; Emerging Markets/Globalization; Management of Computing and Information Systems; Procurement 

**Target groups**

Professional/practitioner 

**Type of publication**

Handbook 

**Usually dispatched within 3 to 5 business days.**

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### Guide to Computational Geometry Processing

**Foundations, Algorithms, and Methods**

This book reviews the algorithms for processing geometric data, with a practical focus on important techniques not covered by traditional courses on computer vision and computer graphics. Features: presents an overview of the underlying mathematical theory, covering vector spaces, metric space, affine spaces, differential geometry, and finite difference methods for derivatives and differential equations; reviews geometry representations, including polygonal meshes, splines, and subdivision surfaces; examines techniques for computing curvature from polygonal meshes; describes algorithms for mesh smoothing, mesh parametrization, and mesh optimization and simplification; discusses point location databases and convex hulls of point sets; investigates the reconstruction of triangle meshes from point clouds, including methods for registration of point clouds and surface reconstruction; provides additional material at a supplementary website; includes self-study exercises throughout the text. 

**Features**

Optical scanning is rapidly becoming ubiquitous. From industrial laser scanners to medical CT, MR and 3D ultrasound scanners, numerous organizations now have easy access to optical acquisition devices that provide huge volumes of image data. However, the raw geometry data acquired must first be processed before it is useful. This Guide to Computational Geometry Processing reviews the algorithms [...] 

**Contents**


**Fields of interest**

Mathematical Applications in Computer Science; Symbolic and Algebraic Manipulation; Computer Graphics; Artificial Intelligence (incl. Robotics); Image Processing and Computer Vision; Computer-Aided Engineering (CAD, CAE) and Design 

**Target groups**

Graduate 

**Type of publication**

Graduate/advanced undergraduate textbook 

**Usually dispatched within 3 to 5 business days.**
How the World Computes


This book constitutes the refereed proceedings of the Turing Centenary Conference and the 8th Conference on Computability in Europe, CiE 2012, held in Cambridge, UK, in June 2012. The 53 revised papers presented together with 6 invited lectures were carefully reviewed and selected with an acceptance rate of under 29.8%. The CiE 2012 Turing Centenary Conference will be remembered as a historic event in the continuing development of the powerful explanatory role of computability across a wide spectrum of research areas. The papers presented at CiE 2012 represent the best of current research in the area, and forms a fitting tribute to the short but brilliant trajectory of Alan Mathison Turing. Both the conference series and the association promote the development of computability-related science, ranging over mathematics, computer science and applications in various natural and engineering sciences such as physics and biology, and also including the promotion of related non-scientific fields such as...[

Features
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Fields of interest
Computation by Abstract Devices; Algorithm Analysis and Problem Complexity; Discrete Mathematics in Computer Science; Symbolic and Algebraic Manipulation; Mathematical Logic and Foundations

Target groups
Research

Type of publication
Proceedings

Online orders shipping within 2-3 days.


87,00 €
ISBN 978-3-642-30869-7

Image Analysis and Recognition


The two-volume set LNCS 7324/7325 constitutes the refereed proceedings of the 9th International Conference on Image and Recognition, ICIAR 2012, held in Aveiro, Portugal, in June 2012. The 107 revised full papers presented were carefully reviewed and selected from 207 submissions. The papers are organized in topical sections on clustering and classification; image processing; motion analysis and tracking; shape representation; 3D imaging; applications; biometrics and face recognition; human activity recognition; biomedical image analysis; retinal image analysis; and call detection and modeling.

Features
The two-volume set LNCS 7324/7325 constitutes the refereed proceedings of the 9th International Conference on Image and Recognition, ICIAR 2012, held in Aveiro, Portugal, in June 2012. The 107 revised full papers presented were carefully reviewed and selected from 207 submissions. The papers are organized in topical sections on clustering and classification; image processing; motion analysis and tracking; shape representation; 3D imaging; applications; biometrics and face recognition; human activity recognition; biomedical image analysis; retinal image analysis; and call detection and modeling.

Fields of interest
Image Processing and Computer Vision; Artificial Intelligence (incl. Robotics); Pattern Recognition; Computer Graphics; Algorithm Analysis and Problem Complexity; Information Systems Applications (incl.Internet)

Target groups
Research

Type of publication
Proceedings

Online orders shipping within 2-3 days.


62,00 €
ISBN 978-3-642-31294-6

Image Analysis and Recognition


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Fields of interest
Image Processing and Computer Vision; Artificial Intelligence (incl. Robotics); Pattern Recognition; Computer Graphics; Algorithm Analysis and Problem Complexity; Information Systems Applications (incl.Internet)

Target groups
Research

Type of publication
Proceedings

Online orders shipping within 2-3 days.


70,00 €
ISBN 978-3-642-31297-7
Informations- und Kodierungstheorie

Was ist Information? Wie kann man sie darstellen, sicher übertragen oder speichern? Viele Fragen, auf die das Buch Antworten gibt.

Die Informations- und Kodierungstheorie liefert das Grundlagenwerkzeug für die Berechnung des Informationsgehalts von diskreten und kontinuierlichen Quellensignalen und deren Darstellung in kodierter Form. So können erforderliche Sprach- und Kanalkapazitäten bei der Informationsübertragung und -verarbeitung in IT-Systemen bestimmt werden. Das Kapitel Kanalkodierung zeigt Lösungen für eine sichere Informationsübertragung über gestörte Kanäle. Ausführlich werden Block- und kodierter Fehlererkennung und Fehlerrichtung beschrieben, die der Fehlererkennung und Fehlerrichtung dienen.

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Contents

Fields of interest
Coding and Information Theory; Computer Engineering

Target groups
Upper undergraduate

Type of publication
German textbook

Online orders shipping within 2-3 days.

2012. VIII, 296 S. 40 Abb. Softcover
approx. 32.66 €
ISBN 978-3-8348-0647-5

Instruction Sequences for Computer Science

This book demonstrates that the concept of an instruction sequence offers a novel and useful viewpoint on issues relating to diverse subjects in computer science. Selected issues relating to well-known subjects from the theory of computation and the area of computer architecture are rigorously investigated in this book thinking in terms of instruction sequences. The subjects from the theory of computation, to wit the halting problem and non-uniform computational complexity, are usually investigated thinking in terms of a common model of computation such as Turing machines and Boolean circuits. The subjects from the area of computer architecture, to wit instruction sequence performance, instruction set architectures and remote instruction processing, are usually not investigated in a rigorous way at all.

Features
This book demonstrates that the concept of an instruction sequence offers a novel and useful viewpoint on issues relating to diverse subjects in computer science. Selected issues relating to well-known subjects from the theory of computation and the area of computer architecture are rigorously investigated in this book thinking in terms of instruction sequences. The subjects from the theory of computation, to wit instruction sequence performance, instruction set architectures and remote instruction processing, are usually not investigated in a rigorous way at all.

Contents

Fields of interest
Computer Science; Formale Systeme; Programmierung; Logik und Semantik; Methoden der integrierten Formalisierung

Target groups
Research

Type of publication
Monograph

Usually dispatched within 3 to 5 business days.

84.95 €
ISBN 978-94-91216-64-0

Integrated Formal Methods


This book constitutes the refereed proceedings of the 9th International Conference on Integrated Formal Methods, IFM 2012, held in Pisa, Italy, in June 2012. The 20 revised full papers presented together with 2 invited papers were carefully reviewed and selected from 59 submissions. The papers cover the spectrum of integrated formal methods, ranging from formal and semiformal notations, semantics, proof frameworks, refinement, verification, timed systems, as well as tools and case studies.

Features
This book constitutes the refereed proceedings of the 9th International Conference on Integrated Formal Methods, IFM 2012, held in Pisa, Italy, in June 2012. The 20 revised full papers presented together with 2 invited papers were carefully reviewed and selected from 59 submissions. The papers cover the spectrum of integrated formal methods, ranging from formal and semiformal notations, semantics, proof frameworks, refinement, verification, timed systems, as well as tools and case studies.

Fields of interest
Software Engineering; Logics and Meanings of Programs; Programming Languages, Compilers, Interpreters; Mathematical Logic and Formal Languages; Programming Techniques; Algorithm Analysis and Problem Complexity

Target groups
Research

Type of publication
Proceedings

Online orders shipping within 2-3 days.

54.00 €
ISBN 978-3-642-30728-7
Intelligent Computer Mathematics


This book constitutes the joint refereed proceedings of the 11th International Conference on Artificial Intelligence and Symbolic Computation, AISC 2012, 19th Symposium on the Integration of Symbolic Computation and Mechanized Reasoning, Calculus 2012, 5th International Workshop on Digital Mathematics Libraries, DML 2012, 11th International Conference on Mathematical Knowledge Management, MKM 2012, Systems and Projects, held in Bremen, Germany as CICM 2012, the Conferences on Intelligent Computer Mathematics. The 13 revised full papers out of 19 submissions for MKM 2012, 6 revised full papers out of 9 submissions for Calculus 2012, 6 revised full papers out of 8 submissions for AISC 2012, 2 revised full papers out of 3 submissions for DML 2012, and 11 revised full papers out of 12 submissions for Systems and Project track presented were carefully reviewed and selected, resulting in 38 papers from a total of 52 submissions.

Features

This book constitutes the joint refereed proceedings of the 11th International Conference on Artificial Intelligence and Symbolic Computation, AISC 2012, 19th Symposium on the Integration of Symbolic Computation and Mechanized Reasoning, Calculus 2012, 5th International Workshop on Digital Mathematics Libraries, DML 2012, 11th International Conference on Mathematical Knowledge Management, MKM 2012, Systems and Projects, held in Bremen, Germany as CICM 2012, the Conferences on Intelligent Computer Mathematics. The 13 revised full papers out of 19 submissions for MKM 2012, 6 revised full papers out of 9 submissions for Calculus 2012, 6 revised full papers out of 8 submissions for AISC 2012, 2 revised full papers out of 3 submissions for DML 2012, and 11 revised full papers out of 12 submissions for Systems and Project track presented were carefully reviewed and selected, resulting in 38 papers from a total of 52 submissions.

Fields of interest

Symbolic and Algebraic Manipulation; Artificial Intelligence (incl. Robotics); Mathematical Applications in Computer Science; Mathematical Logic and Formal Languages; Logics and Meanings of Programs; Information Storage and Retrieval

Target groups

Research

Type of publication

Proceedings

Online orders shipping within 2-3 days.

2012, XVIII, 473 p. 111 illus. (Lecture Notes in Artificial Intelligence, Vol. 7362) Softcover

62,00 €
ISBN 978-3-642-31373-8

Intelligent Tutoring Systems

11th International Conference, ITS 2012, Chania, Crete, Greece, June 14-18, 2012, Proceedings

This book constitutes the refereed proceedings of the 11th International Conference on Intelligent Tutoring Systems, ITS 2012, held in Chania, Crete, Greece, in June 2012. The 28 revised full papers, 50 short papers, and 56 posters presented were carefully viewed and selected from 177 submissions. The specific theme of the ITS 2012 conference is co-adaptation between technologies and human learning. Besides that, the highly interdisciplinary ITS conferences bring together researchers in computer science, informatics, and artificial intelligence on the one side and cognitive science, educational psychology, and linguistics on the other side. The papers are organized in topical sections on affect/emotions, affect/signals, games/motivation and design, games/experiences, content representation, feedback, conventional approaches, conceptual content representation, assessment constraints, dialogue, dialogue/questions, learner modeling, learning detection, interaction strategies for games, and [...] Features

This book constitutes the refereed proceedings of the 11th International Conference on Intelligent Tutoring Systems, ITS 2012, held in Chania, Crete, Greece, in June 2012. The 28 revised full papers, 50 short papers, and 56 posters presented were carefully viewed and selected from 177 submissions. The specific theme of the ITS 2012 conference is co-adaptation between technologies and human learning. Besides [...] Fields of interest

Computers and Education; User Interfaces and Human Computer Interaction; Multimedia Information Systems; Computer Appl. in Social and Behavioral Sciences; Document Preparation and Text Processing; Artificial Intelligence (incl. Robotics)

Target groups

Research

Type of publication

Proceedings

Online orders shipping within 2-3 days.


87,00 €
ISBN 978-3-642-30949-6

Kreativität und Form

Programm eines Glasperlenspiels zum Experimentieren mit Wissen

In seinem gleichnamigen Roman entwirft Hermann Hesse die Idee eines Glasperlenspiels, welches [...] vom Glasperlenspieler so gespielt wie eine Orgel vom Organisten, und diese Orgel ist von einer kaum auszudenkenden Vollkommenheit, ihre Manuale und Pedale taten den ganzen geistigen Kosmos ab, ihre Register sind beinahe unzählig, theoretisch ließe sich mit diesem Instrument der ganze geistige Welthinhalt sich im [...] Features

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Fields of interest

Media Design; Cognitive Psychology; Communication Studies; Sign Language; Logic

Target groups

Professional/practitioner

Type of publication

Monograph

Usually dispatched within 3 to 5 business days.

2012. VI, 129 S. 9 Abb. Mit online files/update. Hardcover

27,99 €
ISBN 978-3-642-27520-3
**Mathematical Logic for Computer Science**

Mathematical Logic for Computer Science is a mathematics textbook with theorems and proofs, but the choice of topics has been guided by the needs of students of computer science. The method of semantic tableaux provides an elegant way to teach logic that is both theoretically sound and easy to understand. The uniform use of tableaux-based techniques facilitates learning advanced logical systems based on what the student has learned from elementary systems. The logical systems presented are: propositional logic, first-order logic, resolution and its application to logic programming, Hoare logic for the verification of sequential programs, and linear temporal logic for the verification of concurrent programs. The third edition has been entirely rewritten and includes new chapters on central topics of modern computer science: SAT solvers and model checking.

**Features**

Mathematical Logic for Computer Science is a mathematics textbook with theorems and proofs, but the choice of topics has been guided by the needs of students of computer science. The method of semantic tableaux provides an elegant way to teach logic that is both theoretically sound and easy to understand. The uniform use of tableaux-based techniques facilitates learning advanced logical systems based on what the student has learned from elementary systems.

**Contents**

- Preface
- Introduction
- Propositional Logic
  - Formulas, Models, Tableaux
  - Propositional Logic: Deductive Systems
- First-Order Logic: Formulas, Models, Tableaux
- First-Order Logic: Deductive Systems
- First-Order Logic: Terms and Normal Forms
- First-Order Logic: Resolution
- First-Order Logic: Logic Programming
- First-Order Logic: Undecidability and Model Theory
- Temporal Logic: Formulas, Models, Tableaux
- Temporal Logic: A Deductive System
- Verification of...

**Fields of interest**

Mathematical Logic and Formal Languages; Mathematical Logic and Foundations

**Target groups**

Lower undergraduate

**Type of publication**

Undergraduate textbook

**Usually dispatched within 3 to 5 business days.**

2012. XV, 346 p. 79 illus. Softcover

44,95 €

ISBN 978-1-4471-4128-0

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**Mathematics of Program Construction**


This book constitutes the refereed proceedings of the 11th International Conference on Mathematics of Program Construction, MPC 2012, held in Madrid, Spain, in June 2012. The 13 revised full papers presented together with three invited talks were carefully reviewed and selected from 27 submissions. The papers are organized in topical sections on security and information flow, synchronous and real-time systems, algorithms and games, programming calculi, tool support, algebras and datatypes, and categorical functional programming.

**Features**

This book constitutes the refereed proceedings of the 11th International Conference on Mathematics of Program Construction, MPC 2012, held in Madrid, Spain, in June 2012. The 13 revised full papers presented together with three invited talks were carefully reviewed and selected from 27 submissions. The papers are organized in topical sections on security and information flow, synchronous and real-time systems, [...]...

**Fields of interest**

Logics and Meanings of Programs; Mathematical Logic and Formal Languages; Software Engineering; Discrete Mathematics in Computer Science; Programming Languages, Compilers, Interpreters; Mathematical Applications in Computer Science

**Target groups**

Research

**Type of publication**

Proceedings

**Online orders shipping within 2-3 days.**


54,00 €

ISBN 978-3-642-31112-3

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**Matrix Transforms for Computer Games and Animation**

Matrix transforms are ubiquitous within the world of computer graphics, where they have become an invaluable tool in a programmer’s toolkit for solving everything from 2D image scaling to 3D rotation about an arbitrary axis. Virtually every software system and hardware graphics processor uses matrices to undertake operations such as scaling, translation, reflection and rotation. Nevertheless, for some newcomers to the world of computer games and animation, matrix notation can appear obscure and challenging. Matrices and determinants were originally used to solve groups of simultaneous linear equations, and were subsequently embraced by the computer graphics community to describe the geometric operations for manipulating two- and three-dimensional structures. Consequently, to place matrix notation within an historical context, the author provides readers with some useful background to their development, alongside determinants. Although it is assumed that the reader is familiar with everyday algebra and [...]...

**Features**

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**Fields of interest**

Computer Imaging, Vision, Pattern Recognition and Graphics; Mathematics (general); Image Processing and Computer Vision

**Target groups**

Lower undergraduate

**Type of publication**

Undergraduate textbook

**Usually dispatched within 3 to 5 business days.**

2012. XI, 166 p. 45 illus. Softcover

39,95 €

ISBN 978-1-4471-4320-8
Modelling Foundations and Applications


This book constitutes the refereed proceedings of the 8th European Conference on Modelling Foundations and Applications, held in Kgs. Lyngby, Denmark, in July 2012. The 20 revised full foundations track papers and 10 revised full applications track papers presented were carefully reviewed and selected from 81 submissions. Papers on all aspects of MDE were received, including topics such as architectural modelling and product lines, code generation, domain-specific modeling, metamodeling, model analysis and verification, model management, model transformation and simulation. The breadth of topics, as well as the high quality of the results presented in these accepted papers, demonstrate the maturity and vibrancy of the field.

Features

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Nichtsequentielle Programmierung mit Go 1 kompakt

Einführung in die Konzepte der grundlegenden Programmier-Techniken für Betriebssysteme, Parallele Algorithmen, Verteilte Systeme und Datenbanktransaktionen


Features
Pattern Recognition

This book constitutes the refereed proceedings of the 4th Mexican Conference on Pattern Recognition, MCPR 2012, held in Huatulco, Mexico, in June 2012. The 31 revised full papers and 3 keynotes presented were carefully reviewed and selected from 64 submissions and are organized in topical sections on image processing; computer vision and image recognition; pattern recognition and neural networks; and document processing and speech recognition.

Fields of interest
Artificial Intelligence (incl. Robotics); Pattern Recognition; Image Processing and Computer Vision; Information Systems Applications (incl.Internet); Algorithm Analysis and Problem Complexity; Data Mining and Knowledge Discovery

Target groups
Research

Type of publication
Proceedings

Online orders shipping within 2-3 days.

Pervasive Computing

This book constitutes the refereed proceedings of the 10th International Conference on Pervasive Computing, Pervasive 2012, held in Newcastle, UK, in June 2012. The 28 revised papers presented were carefully reviewed and selected from 138 submissions. The contributions are grouped into the following topical sections: activity capturing; urban mobility and computing; home and energy; HCI; development tools and devices; indoor location and positioning; social computing and games; privacy; public displays and services.

Features
This book constitutes the refereed proceedings of the 10th International Conference on Pervasive Computing, Pervasive 2012, held in Newcastle, UK, in June 2012. The 28 revised papers presented were carefully reviewed and selected from 138 submissions. The contributions are grouped into the following topical sections: activity capturing; urban mobility and computing; home and energy; HCI; development tools and devices; indoor location and positioning; social computing and games; privacy; public displays and services.

Fields of interest
Information Systems Applications (incl.Internet); User Interfaces and Human Computer Interaction; Computer Communication Networks; Systems and Data Security; Simulation and Modeling; Computers and Society

Target groups
Research

Type of publication
Proceedings

Online orders shipping within 2-3 days.

Programming Language Concepts

Programming Language Concepts uses a functional programming language (F#) as the metalanguage in which to present all concepts and examples, and thus has an operational flavour, enabling practical experiments and exercises. It includes basic concepts such as abstract syntax, interpretation, stack machines, compilation, type checking, and garbage collection techniques, as well as the more advanced topics on polymorphic types, type inference using unification, co- and contravariant types, continuations, and backwards code generation with on-the-fly peephole optimization. Programming Language Concepts covers practical construction of lexers and parsers, but not regular expressions, automata and grammars, which are well covered elsewhere. It throws light on the design and technology of Java and C# to strengthen students’ understanding of these widely used languages. The examples present several interpreters and compilers for toy languages, including a compiler for a small but usable subset of C, several...

Features
Programming Language Concepts uses a functional programming language (F#) as the metalanguage in which to present all concepts and examples, and thus has an operational flavour, enabling practical experiments and exercises. It includes basic concepts such as abstract syntax, interpretation, stack machines, compilation, type checking, and garbage collection techniques, as well as the more advanced.

Contents

Fields of interest
Programming Languages, Compilers, Interpreters

Target groups
Upper undergraduate

Type of publication
Undergraduate textbook

Usually dispatched within 3 to 5 business days.
This book constitutes the refereed proceedings of the 5th International Conference on the Theory and Application of Cryptographic Techniques in Africa, AFRICACRYPT 2011, held in Ifrane, Morocco, in July 2012. The 24 papers presented together with abstracts of 2 invited talks were carefully reviewed and selected from 56 submissions. They are organized in topical sections on signature schemes, stream ciphers, applications of information theory, block ciphers, network security protocols, public-key cryptography, cryptanalysis of hash functions, hash functions: design and implementation, algorithms for public-key cryptography, and cryptographic protocols.

Features
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### Scientific and Statistical Database Management


This book constitutes the refereed proceedings of the 24th International Conference on Scientific and Statistical Database Management, SSDM 2012, held in Chania, Crete, Greece, in June 2012. The 25 long and 10 short papers presented together with 2 keynotes, 1 panel, and 13 demonstration and poster papers were carefully reviewed and selected from numerous submissions. The topics covered are uncertain and probabilistic data, parallel and distributed data management, graph processing, mining multidimensional data, provenance and workflows, processing scientific queries, and support for demanding applications.

#### Features

This book constitutes the refereed proceedings of the 24th International Conference on Scientific and Statistical Database Management, SSDM 2012, held in Chania, Crete, Greece, in June 2012. The 25 long and 10 short papers presented together with 2 keynotes, 1 panel, and 13 demonstration and poster papers were carefully reviewed and selected from numerous submissions. The topics covered are uncertain and probabilistic data, parallel and distributed data management, graph processing, mining multidimensional data, provenance and workflows, processing scientific queries, and support for demanding applications.

#### Fields of interest

- Database Management
- Data Mining and Knowledge Discovery
- Information Storage and Retrieval
- Information Systems Applications (incl.Internet)
- Data Structures
- Computer Communication Networks

#### Target groups

- Research

#### Type of publication

- Proceedings

#### Online orders shipping within 2-3 days.


#### Softcover

- 79,00 €
- ISBN 978-3-642-31234-2

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### Securing Digital Video

#### Techniques for DRM and Content Protection

Content protection and digital rights management (DRM) are fields that receive a lot of attention: content owners require systems that protect and maximize their revenues; consumers want backwards compatibility, while they fear that content owners will spy on their viewing habits; and academics are afraid that DRM may be a barrier to knowledge sharing. DRM technologies have a poor reputation and are not yet trusted. This book describes the key aspects of content protection and DRM systems, the objective being to demystify the technology and techniques. In the first part of the book, the author builds the foundations, with sections that cover the rationale for protecting digital video content; video piracy; current toolboxes that employ cryptography, watermarking, tamper resistance, and rights expression languages; different ways to model video content protection; and DRM. In the second part, he describes the main existing deployed solutions, including video ecosystems; how video is protected in [...] .

#### Features

Content protection and digital rights management (DRM) are fields that receive a lot of attention: content owners require systems that protect and maximize their revenues; consumers want backwards compatibility, while they fear that content owners will spy on their viewing habits; and academics are afraid that DRM may be a barrier to knowledge sharing. DRM technologies have a poor reputation and are not [...] .

#### Contents

- Introduction: Why Protect Video?
- A Toolbox: A Useful Model
- Current Video Ecosystems
- Protecting Broadcasts
- Protecting IP
- Protecting Prerecorded and Recordable Media
- Next Frontier: Interoperability
- Some Trends and Challenges
- Conclusions

#### Fields of interest

- Database Structures
- Cryptology and Information Theory
- Circuits and Systems
- Multimedia Information Systems
- e-commerce / e-business
- Management of Computing and Information Systems

#### Target groups

- Professional/practitioner

#### Type of publication

- Monograph

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### Systems, Software and Services Process Improvement


This volume constitutes the refereed proceedings of the 19th EuroSPI conference, held in Vienna, Austria, in June 2012. The 29 revised papers presented in this volume were carefully reviewed and selected. They are organized in topical sections on SPI and business factors; SPI lifecycle and models; SPI assessment and quality; SPI processes and standards; SPI in SMEs; SPI and implementation; creating environments supporting innovation and improvement; standards and experiences with the implementation of functional safety; business process management; SPI in SMEs – a project management perspective.

#### Features

This volume constitutes the refereed proceedings of the 19th EuroSPI conference, held in Vienna, Austria, in June 2012. The 29 revised papers presented in this volume were carefully reviewed and selected. They are organized in topical sections on SPI and business factors; SPI lifecycle and models; SPI assessment and quality; SPI processes and standards; SPI in SMEs; SPI and implementation; creating environments supporting innovation and improvement; standards and experiences with the implementation of functional safety; business process management; SPI in SMEs – a project management perspective.

#### Fields of interest

- Software Engineering
- Management of Computing and Information Systems
- Computer Appl. in Administrative Data Processing
- Information Systems Applications (incl.Internet)
- Software Engineering / Programming and Operating Systems

#### Target groups

- Research

#### Type of publication

- Proceedings

#### Online orders shipping within 2-3 days.

2012. Approx. 365 p. (Communications in Computer and Information Science, Vol. 301)

#### Softcover

- 64,00 €
- ISBN 978-3-642-31198-7
The Portuguese Language in the Digital Age

This white paper is part of a series that promotes knowledge about language technology and its potential. It addresses educators, journalists, politicians, language communities and others. The availability and use of language technology in Europe varies between languages. Consequently, the actions that are required to further support research and development of language technologies also differ for each language. The required actions depend on many factors, such as the complexity of a given language and the size of its community. META-NET, a Network of Excellence funded by the European Commission, has conducted an analysis of current language resources and technologies. This analysis focused on the 23 official European languages as well as other important national and regional languages in Europe. The results of this analysis suggest that there are many significant research gaps for each language. A more detailed expert analysis and assessment of the current situation will help maximise the impact of [...]
The Slovak Language in the Digital Age

This white paper is part of a series that promotes knowledge about language technology and its potential. It addresses educators, journalists, politicians, language communities and others. The availability and use of language technology in Europe varies between languages. Consequently, the actions that are required to further support research and development of language technologies also differ for each language. The required actions depend on many factors, such as the complexity of a given language and the size of its community. META-NET, a Network of Excellence funded by the European Commission, has conducted an analysis of current language resources and technologies. This analysis focused on the 23 official European languages as well as other important national and regional languages in Europe. The results of this analysis suggest that there are many significant research gaps for each language. A more detailed expert analysis and assessment of the current situation will help maximise the impact of [...] Features

Contents

Fields of interest
Language Translation and Linguistics; Computational Linguistics

Target groups
Professional/practitioner

Type of publication
Contributed volume

Usually dispatched within 3 to 5 business days.

2012, VI, 85 p. 25 illus., 23 in color. (White Paper Series) Softcover

49,95 €
ISBN 978-3-642-30369-2

Transactions on Edutainment VIII

This journal subline serves as a forum for stimulating and disseminating innovative research ideas, theories, emerging technologies, empirical investigations, state-of-the-art methods, and tools in all different genres of edutainment, such as game-based learning and serious games, interactive storytelling, virtual learning environments, VR-based education, and related fields. It covers aspects from educational and game theories, human-computer interaction, computer graphics, artificial intelligence, and systems design. This issue contains 10 outstanding contributions from the International Conference on E-Learning and Games, Edutainment 2011, as well as 14 regular papers which were partly selected from national conferences. The topics covered are game engine, using games to teach, identifying player emotion states, assessing the effects of educational games to multi-touch interaction, natural user interface, and virtual reality. Generally, the papers present a large number of examples of [...] Features

Contents

Contents
Computer and Human Computer Interaction; Computer Imaging, Vision, Pattern Recognition and Graphics; Multimedia Information Systems; Computer Graphics; Artificial Intelligence (incl. Robotics)

Fields of interest
Computers and Education; User Interfaces

Target groups
Research

Type of publication
Contributed volume

Online orders shipping within 2-3 days.


63,00 €
ISBN 978-3-642-31438-4

Trust and Trustworthy Computing


This book constitutes the refereed proceedings of the 5th International Conference on Trust and Trustworthy Computing, TRUST 2012, held in Vienna, Austria, in June 2012. The 19 revised full papers presented were carefully reviewed and selected from 48 submissions. The papers are organized in two tracks: a technical track with topics ranging from trusted computing and mobile devices to applied cryptography and physically unclonable functions, and a socio-economic track focusing on the emerging field of usable security.

Features

Contents
Data Encryption; Computer Communication Networks; Management of Computing and Information Systems; Algorithm Analysis and Problem Complexity; Computers and Society; Information Systems Applications (incl. Internet).

Fields of interest
Research

Type of publication
Proceedings

Online orders shipping within 2-3 days.

2012, XII, 341 p. 91 illus. (Security and Cryptology, Vol. 7344) Softcover

54,00 €
ISBN 978-3-642-30920-5
Two-Dimensional Change Detection Methods

Remote Sensing Applications

Change detection using remotely sensed images has many applications, such as urban monitoring, land-cover change analysis, and disaster management. This work investigates two-dimensional change detection methods. The existing methods in the literature are grouped into four categories: pixel-based, transformation-based, texture analysis-based, and structure-based. In addition to testing existing methods, four new change detection methods are introduced: fuzzy logic-based, shadow detection-based, local feature-based, and bipartite graph matching-based. The latter two methods form the basis for a structural analysis of change detection. Three thresholding algorithms are compared, and their effects on the performance of change detection methods are measured. These tests on existing and novel change detection methods make use of a total of 35 panchromatic and multi-spectral Ikonos image sets. Quantitative test results and their interpretations are provided.

Features
Change detection using remotely sensed images has many applications, such as urban monitoring, land-cover change analysis, and disaster management. This work investigates two-dimensional change detection methods. The existing methods in the literature are grouped into four categories: pixel-based, transformation-based, texture analysis-based, and structure-based. In addition to testing existing methods, [...] Contents


Fields of interest
Image Processing and Computer Vision; Pattern Recognition

Target groups
Research

Type of publication
Brief

Usually dispatched within 3 to 5 business days.


A. Krüger, DFKI GmbH, Saarbrücken, Germany; T. Kuflik, University of Haifa, Israel (Eds.)

Ubiquitous Display Environments

Our increasingly smart environments will sense, track and model users and provide them with personalized services. We can already embed computers in everyday objects such as shirt buttons and pencils; objects of all sizes, from wristwatches to billboards, will soon incorporate high-quality flexible displays; we have improved access to wireless Internet communication; and we are now transitioning from traditional linear to targeted interactive media. The convergence of these factors — miniaturization, display technologies, wireless communication, and interactive media — will allow us to leave our desktop computers and move to a radical computing paradigm, the ubiquitous display environment, where media and visual content will support a rich variety of display devices that enable users to interact with information artifacts in a seamless manner. This is one of the most exciting and important areas of technology development and this book addresses the challenge within the context of an educational and [...] Features
Our increasingly smart environments will sense, track and model users and provide them with personalized services. We can already embed computers in everyday objects such as shirt buttons and pencils; objects of all sizes, from wristwatches to billboards, will soon incorporate high-quality flexible displays; we have improved access to wireless Internet communication; and we are now transitioning from [...] Contents
Ubiquitous Display Environments: An Overview (Tsvi Kuflik).- Challenges and Solutions of Ubiquitous User Modeling (Tsvi Kuflik, Judy Kay, Bob Kummerfeld).- Context-Sensitive Display Environments (Florian Dabber, Antonio Krüger, Johannes Schöning, Jörg Müller).- Perspectives on Reasoning About Time (Martin Charles Golumbic).- Shared Interfaces for Co-located Interaction (Massimo Zancanaro).- Considering the Aesthetics of Ubiquitous Displays (Noam Tractinsky, Eleanor Eytam).- The Design, Deployment and Evaluation of Situated Display Based Systems to Support Coordination and Community [...] Fields of interest
Image Processing and Computer Vision; Pattern Recognition

Target groups
Research

Type of publication
Monograph

Usually dispatched within 3 to 5 business days.

2012. VIII, 228 p. 84 illus., 63 in color. (Cognitive Technologies) Hardcover 84,95 € ISBN 978-3-642-27662-0

A.R. Ram, Government College of Engineering, Kannur, India; S. Chaudhuri, Indian Institute of Technology, Bombay, Powai, India

Video Analysis and Repackaging for Distance Education

This book presents various video processing methodologies that are useful for distance education. The motivation is to devise new multimedia technologies that are suitable for better representation of instructional videos by exploiting the temporal redundancies present in the original video. This solves many of the issues related to the memory and bandwidth limitation of lecture videos. The various methods described in the book focus on a key-frame based approach which is used to time shrink, repackage and retarget instructional videos. All the methods need a preprocessing step of shot detection and recognition, which is separately given as a chapter. We find those frames which are well-written and distinct as key-frames. A super-resolution based image enhancement scheme is suggested for refining the key-frames for better legibility. These key-frames, along with the audio and a meta-data for the mutual linkage among various media components form a repackaged lecture video, which on a programmed [...] Features
None

Contents
Media for Distance Education.- Instructional Media Repackaging.- Current State of the Art.- Preprocessing of Lecture Videos.- Video Content Re-creation.- Display of Media on Miniature Devices.- Copyright Protection.- Lecture Video Capsule for Course Preview.- Conclusions and Future Directions of Research.- Appendices.- References.- Index.

Fields of interest
Image Processing and Computer Vision; Signal, Image and Speech Processing; Education (general)

Target groups
Research

Type of publication
Monograph

Usually dispatched within 3 to 5 business days.


A.R. Ram, Government College of Engineering, Kannur, India; S. Chaudhuri, Indian Institute of Technology, Bombay, Powai, India
Virtual Communities, Social Networks and Collaboration

Online communities are among the most obvious manifestations of social networks based on new media technology. Facilitating ad-hoc communication and leveraging collective intelligence by matching similar or related users have become important success factors in almost every successful business plan. Researchers are just beginning to understand virtual communities and collaborations among participants currently proliferating across the world. Virtual Communities, Social Networks and Collaboration covers cutting edge research topics of utmost real-world importance in the specific domain of social networks. This volume focuses on exploring issues relating to the design, development, and outcomes from electronic groups and online communities, including: - The implications of social networking,- Understanding of how and why knowledge is shared among participants,- What leads to participation, effective collaboration, co-creation and innovation,- How organizations can better utilize the potential benefits[…]

Features

Contents

Fields of interest
Information Systems Applications (incl.Internet); Business Information Systems; Computer Appl. in Social and Behavioral Sciences

Target groups
Research

Type of publication
Contributed volume

Usually dispatched within 3 to 5 business days.


84,95 €
ISBN 978-1-4614-3633-1

Earth Sciences

A large part of the global population lives in arid lands which have low rainfall and often lack the water required for sustainable population and economic growth. This book presents a comprehensive description of the hydrogeology and hydrologic processes at work in arid lands. It describes the techniques that can be used to assess and manage the water resources of these areas with an emphasis on groundwater resources, including recent advances in hydrologic evaluation and the differences between how aquifer systems behave in arid lands versus more humid areas.

Water management techniques are described and summarized to show how a more comprehensive approach to water management is required in these areas, including the need to be aware of cultural sensitivities and conditions unique to many arid regions. The integration of existing resources with the addition of new water sources, such as desalination of brackish water and seawater, along with reusing treated wastewater, will be required to meet[…]

Features
A large part of the global population lives in arid lands which have low rainfall and often lack the water required for sustainable population and economic growth. This book presents a comprehensive description of the hydrogeology and hydrologic processes at work in arid lands. It describes the techniques that can be used to assess and manage the water resources of these areas with an emphasis on groundwater […]

Contents

Fields of interest
Environmental Science and Engineering; Hydrogeology; Waste Water Technology / Water Pollution Control / Water Management / Aquatic Pollution

Target groups
Research

Type of publication
Monograph

2012. XXX, 1076 p. 196 illus., 169 in color. (Environmental Science) Hardcover

199,95 €
ISBN 978-3-642-29103-6

Features

Contents

Fields of interest
Earth Sciences (general); Geology

Target groups
Upper undergraduate

Type of publication
Contributed volume

Online orders shipping within 2-3 days.

2012. 4.S. 285 Abb. in Farbe, DVD, Jewel case

21,01 € ISBN 978-3-8274-2964-3

Climate Change, Justice and Sustainability

Linking Climate and Development Policy

Analyzing and synthesising vast data sets from a multitude of disciplines including climate science, economics, hydrology and agricultural research, this volume seeks new methods of combining climate change mitigation, adaptation, development, and poverty reduction in ways that are effective, efficient and equitable. A guiding principle of the project is that new alliances of state and non-state sector partners are urgently required to establish cooperative responses to the threats posed by climate change. This volume offers a vital policy framework for linking our response to this change with progressive principles of global justice and sustainable development.

Features
Rich nations are mainly responsible for global greenhouse gas emissions, and they are financially and institutionally better placed to adapt to the impacts of global climate change. Developing countries, though, must face issues such as severe droughts, floods, and other environmental changes associated with the Earth's warming, with far fewer resources to adapt at their disposal. This volume examines the [...]
Coastal Environments
Focus on Asian Coastal Regions
This book deals with the major issues being faced by the coastal population in Asia with emphasis on natural and man-made hazards, climate change impact and pressures caused by mega cities along Asian coasts. The edited book contains chapters authored by experts who are well known in their own fields of specialization relevant to coastal processes. Emphasis has been given to almost all regions of Asian coast although coverage for south and south eastern regions of Asia is rather strong. Each chapter has been peer reviewed and revised before acceptance. In this book practical suggestions to mitigate problems in sustainable management of coastal regions are also discussed. The book will be useful for students, researchers in physical and social science, policy makers and climate change specialists.

Features
This book deals with the major issues being faced by the coastal population in Asia with emphasis on natural and man-made hazards, climate change impact and pressures caused by mega cities along Asian coasts. The edited book contains chapters authored by experts who are well known in their own fields of specialization relevant to coastal processes. Emphasis has been given to almost all regions of Asian coastal regions.

Contents
[New]
Fields of interest
Coastal Sciences; Physical Geography; Climate Change; Waste Water Technology / Water Pollution Control / Water Management / Aquatic Pollution

Target groups
Research

Type of publication
Monograph

Evapotranspiration in the Soil-Plant-Atmosphere System
Evapotranspiration and its components (evaporation and transpiration) as a process is one of the basic terms of Earth’s water balance; its importance is accentuated by the fact that transpiration is the vital element of the biomass production process. The second important property of evapotranspiration is its extreme consumption of solar energy, thus controlling the temperature of the atmosphere and creating favourable conditions for life. Evapotranspiration as an energy consuming process is also the connection between the energy and mass cycles of the Earth. Evapotranspiration is a process performing in the Soil-Plant-Atmosphere System (SPAS); therefore this book is presenting and quantifying it as a catenary process, describing transport of water in the soil, including root extraction patterns and methods of its evaluation. Transport of water through the plant and from the canopy to the atmosphere is also described and quantified. A variety of evapotranspiration and its components evaporation and [...]
From the Earth’s Core to Outer Space

From the Earth’s Core to Outer Space focuses on four themes: (1) Evolving Earth’s crust, (2) Changing Baltic Sea, (3) Climate Change, and (4) Planet Earth, third stone from Sun. The focus on these four topics provides both a state of the art review of earth science topics of particular importance to Scandinavia and the Baltic and also the global context in which a consideration of these topics must be made. It finishes by discussing our use of space born technologies for understanding these topics and places the Earth within the context of our neighbouring planets and their satellites. The first theme includes papers on the structure, origin and evolution of the Earth’s crust and in particular the ore deposits in Fennoscandia, plate-tectonic drift of Fennoscandia (Baltica), and postglacial isostatic rebound of the crust. The second theme contains papers dealing with changes in the ice season of the Baltic Sea, inflow and stagnation in deep basins, biology of the Baltic Sea, and carbon dioxide [...] Features

Fields of interest

Earth System Sciences; Climate Change; Physical Geography

Target groups

Research

Type of publication

Monograph

Usually dispatched within 3 to 5 business days.

Geophysical Studies in the Caucasus

The subject of this book is the methodology and results of integrated geophysical investigations in the Caucasian region, mainly interpretation of magnetic and gravity anomalies with utilization of a huge petrophysical database for the evaluation of geological structure and mineral resources. Relative voluminous geophysical data are useful for the Earth Sciences researchers interested in the Caucasian region (and adjacent and similar regions) characterized by complicated geological structure, inclined magnetization (polarization), uneven topography and mountain/sea transition. Examination of geophysical fields verified by super-deep wells drilling indicates that magmatic rocks of the Lesser Caucasus are extended northward under thick sedimentary cover of the Kura Depression up to the Greater Caucasus. These rocks form hidden petroleum-bearing traps of a newly identified type. On the basis of geophysical studies (mainly inexpensive magnetic and electric methods), a new copper-polymetallic province in [...] Features

Fields of interest

Geophysics / Geodesy; Geology; Hydrogeology; Environment (general); Economic Geography

Target groups

Research

Type of publication

Monograph

Usually dispatched within 3 to 5 business days.

Hydrologie quantitative

Processus, modèles et aide à la décision

Cet ouvrage expose les connaissances hydrologiques les plus récentes sur la genèse des écoulements, les crues extrêmes et les étages. Il fournit des conseils pratiques dans l’utilisation et l’interprétation des données. Il présente aussi des outils de modélisation qui peuvent être utilisés pour évaluer les risques hydrologiques et gérer des réserves hydrauliques en prenant appui sur les expériences récentes de leurs applications opérationnelles.

Features

L’hydrologie, science du cycle continental de l’eau, est avant tout l’observation d’un milieu naturel complexe. Par une approche quantifiée elle a l’ambition de fournir un ensemble d’outils opérationnels utiles à l’ingénieur et au décideur, pour évaluer les ressources en eau et les risques associés (crue, sécheresse), anticiper grâce à la prévision en temps réel des événements dommageables et gérer au mieux [...] Features

Fields of interest

Hydrogeology; Geomorphology, Foundations, Hydrogeology; Math. Appl. in Environmental Science; Geology / Natural Processes; Waste Water Technology / Water Pollution Control / Water Management / Aquatic Pollution; Sustainable Development

Target groups

Graduate

Type of publication

Monograph

Online orders shipping within 2-3 days.


99,95 €
ISBN 978-3-540-76618-6

2012. Env. 620 p. Avec DVD. (Ingénierie et développement durable) Softcover

70,09 €
**Economics**

T. Langner, Berlin, Germany; S. Okazaki, Madrid, Spain; M. Eisend, Berlin, Germany (Eds.)

**Advances in Advertising Research (Vol. III)**

Current Insights and Future Trends

Advances in Advertising Research are published by the European Advertising Academy (EAAA). This volume is a compilation of research presented at the 10th International Conference on Research in Advertising (ICORIA) which was held in Berlin (Germany) in June 2011. In the face of an ever increasing number of products and services, as well as an increasingly cluttered media environment, advertising research is confronted with multiple challenges. Against this background, Advances in Advertising Research (Vol. 3) is gaining significance in advancing, promoting, disseminating, and stimulating high quality advertising research. This book provides state-of-the-art research in international advertising with twenty-nine articles by renowned advertising and communication scholars from the worldwide ICORIA network.

**Features**

Advances in Advertising Research are published by the European Advertising Academy (EAAA). This volume is a compilation of research presented at the 10th International Conference on Research in Advertising (ICORIA) which was held in Berlin (Germany) in June 2011. In the face of an ever increasing number of products and services, as well as an increasingly cluttered media environment, advertising research is confronted with multiple challenges. Against this background, Advances in Advertising Research (Vol. 3) is gaining significance in advancing, promoting, disseminating, and stimulating high quality advertising research. This book provides state-of-the-art research in international advertising with twenty-nine articles by renowned advertising and communication scholars from the worldwide ICORIA network.

**Contents**


**Fields of interest**

Oceanography; Geophysics and Environmental Physics; Environmental Physics

**Target groups**

Research

**Type of publication**

Monograph

**Currently out of stock.**
Bilanztheorie in der US-amerikanischen und internationalen Standardsetzung

Eine historische und wissenschaftstheoretische Analyse


Features
Sowohl die US-GAAP als auch die IFRS ringen seit Jahren um ein bilanztheoretisch geschlossenes Gesamtkonzept. Der Widerspruch zwischen revenue and expense view und asset and liability view ist ungelöst. Stefanie Schmitz erklärt aus historischer und wissenschaftstheoretischer Sicht, warum das Ziel eines intern konsistenten Rechnungslegungssystems bis heute nicht erreicht ist. Gleichzeitig […]

Contents
Historische Analyse der Rechnungslegung gemäß US-GAAP und IFRS. - Wissenschaftstheoretische Einordnung der Bilanztheorie in die Forschungsebenen der Wirtschaftswissenschaften. - Heranziehen philosophischer Strategien der Normenfindung als Maßstab für Rechnungslegungsnormen

Fields of interest
Accounting / Auditing

Target groups
Research

Type of publication
Ph.D. thesis

Usually dispatched within 3 to 5 business days.

2012. XIX, 263 S. 2 Abb. (Rechnungswesen und Unternehmensüberwachung) Softcover

46,68 €
ISBN 978-3-8349-3324-9

Buchführung 1 DATEV-Kontenrahmen 2012

Grundlagen der Buchführung für Industrie- und Handelsbetriebe


Features
Der vorliegende Band Buchführung 1 bietet Ihnen einen schnellen, in bewährter Didaktik leicht verständlichen Zugang zu den Grundlagen der Buchführung. Insbesondere der Aufgabenteil ist den gestiegenen Anforderungen der Praxis angepasst. So enthält er zu den didaktisch üblichen Übungsroutinen im Bornhofen-Team erarbeitete komprimierte und schwierige Aufgabenstellungen, an denen der Lernende sein Verständnis […]

Contents

Fields of interest
Accounting / Auditing

Target groups
Upper undergraduate

Type of publication
Undergraduate textbook

Usualy dispatched within 3 to 5 business days.

2012. XVI, 454 S. 34 Abb. Mit online files/update. (Bornhofen Buchführung 1 LB) Softcover

18,64 €
ISBN 978-3-8349-3324-9

Building Successful Partnerships

A Production Theory of Global Multi-Stakeholder Collaboration

Hailed by some as fundamental pillar of global governance, and criticized by others as manifestation of ‘top-down globalism’, multi-stakeholder partnerships have become the new mantra of policy-makers around the globe. However, our understanding of what drives success and failure in these hybrid institutions remains sketchy and incomplete. This book will introduce a production theory of partnering which describes how the contributions actors add to a partnership are translated into results. The objective of this new perspective on collaboration is to make sense of the complex dynamics partnerships face and to derive fundamental propositions on how governance structures should be designed to make partnerships succeed.

Features
Multi-stakeholder partnership has become the ‘new mantra’ of decision-makers in business, government and civil society. Yet our understanding of what drives success and failure in these institutions remains incomplete. The book introduces a production theory which describes how the relationship between contributions and outputs influences behaviour, and suggests how technology, leadership and governance […]

Contents

Fields of interest
Economics

Target groups
Research

Type of publication
Monograph

Usualy dispatched within 3 to 5 business days.

2012. X, 304 p. 69 illus. Hardcover

74,72 €
ISBN 978-3-8349-4063-6
Comparative Management Accounting

C. Endenich, Dortmund

Ein Vergleich der Controllingforschung und -praxis in Deutschland und Spanien

Der Vergleich nationaler Spezifika des Controlling rückt zunehmend in den Fokus wissenschaftlicher Interesses, um den länderübergreifenden Transfer von Controllingpraktiken zu erforschen. Im Rahmen einer systematischen Gegenüberstellung des Controlling in Deutschland und Spanien wird in dieser Untersuchung nicht nur – wie in bestehenden Studien – der Blick auf die Unternehmenspraxis gerichtet, sondern auch eine quantitative Analyse von Zeitschriftenartikeln, insbesondere spanischer, zu ermöglichen. Der Vergleich nationaler Controllingspezifika von Deutschland und Spanien wird in dieser Untersuchung nicht nur, sondern auch von deutschen und spanischer Controllingforschung analysiert. Somit wird eine integrierte Sicht auf Forschung und Praxis des Controlling in zwei Ländern der bedeutendsten und traditionell eng verflochtenen Volkswirtschaften Europas angestrebt.

Features
Der Vergleich nationaler Spezifika des Controlling rückt zunehmend in den wissenschaftlichen Fokus; um die deutsche und spanische Praxis zu vergleichen. In der Untersuchung werden 1.818 Zeitschriftenartikel analysiert, von denen 1.000 aus Deutschland und 818 aus Spanien stammen. Der Vergleich wird auf die Unternehmenspraxis ausgerichtet, um die Auswirkungen der nationalen Spezifika auf den Erfolg von Unternehmen zu untersuchen.

Contents

Fields of interest
Strategic Human Resource Management.

Target groups
Research.

Type of publication
Monograph.

Online orders shipping within 2-3 days.

2012, XLI, 371 S. 38 Abb. Softcover

65,37 €
ISBN 978-3-8349-4276-0
Die Ideen Community zur Integration von Kunden in die frühen Phasen des Innovationsprozesses

**Empirische Analysen und Implikationen**

Immer mehr Unternehmen verfolgen die Strategie, Kunden in ihre Innovationsentwicklung aktiv zu integrieren, um Kundenbedürfnisse adäquat umsetzen zu können. Ulrich Bretschneider untersucht Ideen-Communities als Methode der Kundenintegration. Er führt zunächst eine Fallstudienuntersuchung zur Erfassung grundlegender Gegebenheiten von Ideen-Communities durch. Darauf aufbauend beantwortet er verschiedene Detailfragen. Beispielsweise zeitigt er, welche Motive und Persönlichkeitsmerkmale von Kunden die Ideenqualität sowie die Kundenbereitschaft zur Ideenabgabe beeinflussen.

**Features**

Immer mehr Unternehmen verfolgen die Strategie, Kunden in ihre Innovationsentwicklung aktiv zu integrieren, um Kundenbedürfnisse adäquat umsetzen zu können. Ulrich Bretschneider untersucht Ideen-Communities als Methode der Kundenintegration. Er führt zunächst eine Fallstudienuntersuchung zur Erfassung grundlegender Gegebenheiten von Ideen-Communities durch. Darauf aufbauend beantwortet er verschiedene [...] 

**Fields of interest**

Marketing

**Target groups**

Research

**Type of publication**

Ph.D. thesis

**Usually dispatched within 3 to 5 business days.**

2012, XXI, 259 S. 22 Abb. (Informationsmanagement und Computer Aided Team) Softcover

46,68 €

ISBN 978-3-8349-3373-7

Die Rolle des Marketing für die Ressourcenakquise junger Technologieunternehmen


**Features**

Alexander Hahn untersucht in drei empirischen Studien den Einfluss marketingbezogener Determinanten auf die Akquise finanzieller Ressourcen junger Technologieunternehmen. Die Studien zeigen unter anderem, dass Marketingvorstellungen und Trademarks die Ressourcenakquise fördern können.

**Contents**

Chief Marketing Officer.- Venture Capital.- Trademarks.- Entrepreneurship.

**Fields of interest**

Marketing

**Target groups**

Research

**Type of publication**

Monograph

**Online orders shipping within 2-3 days.**

2012, XIII, 141 S. 3 Abb. (Schriftenreihe des Instituts für Marktorientierte Unternehmensführung (IMU), Universität Mannheim) Softcover

56,03 €

ISBN 978-3-642-27982-9

Dienstleistungserziehung und -management

Dieses Lehrbuch beschäftigt sich mit den Grundlagen, zentralen Prozessen und Methoden sowie Anwendungsbildern für die systematische Entwicklung neuer Dienstleistungen (Dienstleistungserziehung) sowie deren Management über den Lebenszyklus (Dienstleistungsmanagement). Ein Schwerpunkt liegt hierbei auf der Rolle von Informations- und Kommunikationstechnologien (IT) für die Gestaltung und Erbringung von Dienstleistungen. Das Buch bereitet den aktuellen Stand in Forschung und Praxis über das Dienstleistungserziehung und -management lerngerecht auf und gibt Studenten wie Praktikern Theorien, Methoden und Werkzeuge an die Hand, um Dienstleistungen durch den Einsatz von IT systematisch zu gestalten und effizient zu erbringen und neue Formen der Arbeitsteilung und Wertschöpfung für sich nutzbar zu machen.

**Features**

Dieses Lehrbuch beschäftigt sich mit den Grundlagen, zentralen Prozessen und Methoden sowie Anwendungsbildern für die systematische Entwicklung neuer Dienstleistungen (Dienstleistungserziehung) sowie deren Management über den Lebenszyklus (Dienstleistungsmanagement). Ein Schwerpunkt liegt hierbei auf der Rolle von Informations- und Kommunikationstechnologien (IT) für die Gestaltung und Erbringung von [...] 

**Contents**


**Fields of interest**

Business Information Systems; Technology Management; Business & Management Science; Sales/Distribution/Call Center/Service; Management of Computing and Information Systems

**Target groups**

Upper undergraduate

**Type of publication**

German textbook

**Usually dispatched within 3 to 5 business days.**

2012, XX, 447 S. 109 Abb., 8 in Farbe. Softcover

32,66 €

ISBN 978-3-642-27982-9
Enterprise, Business-Process and Information Systems Modeling


This book contains the refereed proceedings of the 13th International Conference on Business Process Modeling, Development and Support (BPMDS 2012) and the 17th International Conference on Exploring Modeling Methods for Systems Analysis and Design (EMMSAD 2012), held together with the 24th International Conference on Advanced Information Systems Engineering (CAiSE 2012) in Gdańsk, Poland, in June 2012. The 17 papers accepted for BPMDS were selected from 48 submissions and cover a wide spectrum of issues related to business process development, modeling, and support. They are grouped into sections on business process in the cloud, advanced BPM in an organizational context, similarity, variations and configuration, BPM and requirements engineering, humans and business process models, and BPM technologies using computational methods. The 13 papers accepted for EMMSAD were chosen from 28 submissions and cover issues of issues related to business process development, modeling, and support.

Features

Fields of interest
Business Information Systems; Information Systems Applications (incl.Internet); Software Engineering; Information Storage and Retrieval; Computer Appl. in Administrative Data Processing

Target groups
Research

Type of publication
Proceedings

Online orders shipping within 2-3 days.

2012. XV, 452 p. 167 illus. (Lecture Notes in Business Information Processing, Vol. 113) Softcover

62,00 €
ISBN 978-3-642-31071-3

S. Ziemann, Fuchsbriefe (Ed.)

FUCHS-Aktuell: Unternehmen/ Personal
bAV erfolgreich einführen


Features

Contents

Fields of interest
Finance / Banking

Target groups
Professional/practitioner

Type of publication
GWV Special Issue

Online orders shipping within 2-3 days.

2012. Etwa 15 S. Softcover

23,36 €
ISBN 978-3-943124-16-3

W. Kilger, Universität des Saarlandes; J.R. Pampel, KPMG AG, Berlin; K. Vikas, Karl-Franzens-Universität, Graz

Flexible Plankostenrechnung und Deckungsbeitragsrechnung


Features

Contents

Fields of interest
Accounting / Auditing

Target groups
Upper undergraduate

Type of publication
German textbook

Online orders shipping within 2-3 days.

2012. XXII, 740 S. 231 Abb. Hardcover

74,72 €
ISBN 978-3-8349-3238-9
Fundamentale Mobilfunkinnovationen in Deutschland

Eine wettbewerbsökonomische Analyse


Grundsätze ordnungsmäßiger Modellierung

Konzeption und Praxisbeispiel für ein effizientes Prozessmanagement


Features

IT-Architekturentwicklung im Smart Grid
Perspektiven für eine sichere markt- und standardbasierte Integration erneuerbarer Energien


Features
Intellektuelles Kapital und Wettbewerbsfähigkeit
Eine Bestandsaufnahme zu Theorie und Praxis

Kreativität und Ideen, Wissen und Kompetenzen sowie die Vernetzung und Kooperation der Mitarbeiter gewinnen für die Wettbewerbsfähigkeit von Unternehmen eine immer größere Bedeutung. Experten eines interdisziplinären Teams um Peter Pawlowsky und Leif Edvinsson beschreiben die Entwicklung und die praktische Umsetzung von Intellectual Capital Management (ICM) Ansätzen und zeigen Wege auf, das Thema in die betriebliche Praxis und die politische Öffentlichkeit zu bringen. Anhand einer großangelegten repräsentativen Unternehmenbefragung schildern die Autoren den Stand der Umsetzung in die Praxis in Deutschland und identifizieren wichtige Treiber für erfolgsrelevantes ICM in Unternehmen.

Features
Kreativität und Ideen, Wissen und Kompetenzen sowie die Vernetzung und Kooperation der Mitarbeiter gewinnen für die Wettbewerbsfähigkeit von Unternehmen eine immer größere Bedeutung. Experten eines interdisziplinären Teams um Peter Pawlowsky und Leif Edvinsson beschreiben die Entwicklung und die praktische Umsetzung von Intellectual Capital Management (ICM) Ansätzen und zeigen Wege auf, das Thema in die [...]

Contents

Fields of interest
Personnel Management; Business Strategy/Leadership

Target groups
Professional/practitioner

Type of publication
Professional book

Usually dispatched within 3 to 5 business days.

2012. X, 208 S. 48 Abb. Softcover

42,01 €
ISBN 978-3-8349-3305-8

Ko-Kreation von Werten im Dienstleistungsmanagement
Eine empirische Analyse des Einflusses anderer Personen bei Sportevents


Features

Contents
Theoretische Grundlagen der Wertekreation.- Wissenschaftliche Rahmentheorien.- Qualitative und quantitative Untersuchungen.- Implikationen für das Dienstleistungsmanagement. 

Fields of interest
Marketing

Target groups
Research

Type of publication
Monograph

Online orders shipping within 2-3 days.

2012. XVIII, 221 S. 24 Abb., 4 in Farbe. (Fokus Dienstleistungsmarketing) Softcover

46,68 €
ISBN 978-3-8349-4213-5

Kontextsensitive Services für mobile Endgeräte
Spezifizierung und Evaluation eines Steuerungsmodells im Mobile Marketing


Features
Mobitелефone weisen durch eine Kontextberücksichtigung ein beträchtliches Potenzial für eine individuelle Kundenansprache auf. Wolfgang Lanzer geht der Frage nach, wie Unternehmen vorgehen müssen, um kontextsensitive Software-Funktionalitäten für mobile Endgeräte zu spezifizieren und zu evaluieren. Er entwickelt eine Methode, die es Entscheidungsträgern im Marketing erlaubt, auf Basis eines vorgegebenen [...] 

Contents

Fields of interest
Marketing

Target groups
Research

Type of publication
Monograph

Usually dispatched within 3 to 5 business days.

2012. XX, 192 S. 49 Abb. (Mobile Computing) Softcover

46,68 €
ISBN 978-3-8349-3609-7
Koordinierter Einsatz von Direktmarketing und Verkaufsaußendienst im B2B-Kontext

Im Rahmen der Kundenkommunikation ist es von zentraler Bedeutung, den Einsatz von Direktmarketing (DIMA) und Verkaufsaußendienst (VAD) nicht isoliert voneinander zu betrachten, sondern diese Instrumentarien gezielt und koordiniert einzusetzen. Trotz der zunehmenden praktischen Bedeutung fehlt bisher eine systematische wissenschaftliche Auseinandersetzung mit der Thematik des koordinierten Einsatzes von DIMA und VAD. Vor diesem Hintergrund folgt Tobias Fredebeul-Krein einem explorativen Forschungsansatz und führt 44 Tiefeninterviews mit Entscheidern aus Unternehmen verschiedener Branchen, in denen sich die Erfahrung aus unterschiedlichen Tätigkeiten der oberen Management-Hierarchieebenen widerspiegelt. Auf Grundlage der explorativen Analyse identifiziert der Autor zentrale Determinanten sowie potenzielle Erfolgsfaktoren und Erfolgswirkungen eines koordinierten Einsatzes von DIMA und VAD. Auf dieser Basis entwickelt der Autor ein umfassendes Forschungsmodell und nimmt eine Typologisierung der [...] 

Features
Im Rahmen der Kundenkommunikation ist es von zentraler Bedeutung, den Einsatz von Direktmarketing (DIMA) und Verkaufsaußendienst (VAD) nicht isoliert voneinander zu betrachten, sondern diese Instrumentarien gezielt und koordiniert einzusetzen. Tobias Fredebeul-Krein führt mit Entscheidern aus Unternehmen verschiedener Branchen 44 Tiefeninterviews, in denen sich die Erfahrungen aus unterschiedlichen [...] 

Contents
Direktmarketing - Dialogmarketing - (Verkaufs-)Außendienst - Persönlicher Verkauf - Integrierte (Marketing-)Kommunikation - Multi-Channel-Marketing

Fields of interest
Marketing

Target groups
Research

Type of publication
Monograph

Kosten- und Leistungsrechnung

Mit einem ausführlichen Fallbeispiel


Features

Contents

Fields of interest
Accounting / Auditing

Type of publication
German textbook

Online orders shipping within 2-3 days.

2012. XVII, 277 S. 83 Abb. Softcover
37,34 €
ISBN 978-3-8349-3467-3

Leistung aus Kultur

Wie aus „Arbeit Nehmen!“ Bestleister werden


Fields of interest
Management/Business for Professionals; Personnel Management; Business & Management Science

Type of publication
Professional book

Online orders shipping within 2-3 days.

2012. XXIII, 195 S. Softcover
37,34 €
ISBN 978-3-8349-3404-8
Licensing kompakt
Praxisleitfaden für Lizenzgeber und -nehmer


Features
Unternehmen nutzen Lizenzthemen, um die Attraktivität ihrer Produkte für den Konsumenten zu erhöhen. Und umgekehrt werden Marken bewusst so aufgebaut, dass sie mit Licensing zusätzliche Umsätze erzielen können. Dieser Praxisleitfaden gibt einen komprimierten Überblick über die gängigsten Formen des Licensing und berücksichtigt dabei gleichermaßen die Perspektiven von Lizenzgebern und -nehmern. [...]  

Contents

Fields of interest
Marketing  

Target groups
Professional/practitioner  

Type of publication
Professional book  

Usually dispatched within 3 to 5 business days.

2012. IX, 146 S. 10 Abb. Softcover
30,79 €
ISBN 978-3-8349-4068-1

M. Bornhofen, Koblenz; M.C. Bornhofen, Düsseldorf  

Lösungen zum Lehrbuch Buchführung 1 DATEV-Kontenrahmen 2012
Mit zusätzlichen Prüfungsaufgaben und Lösungen


Features
Das Lösungsbuch zur Buchführung 1 hilft Ihnen, Ihre selbst erarbeiteten Lösungen zu den Fällen des Lehrbuchs zu überprüfen. Um Ihnen die Möglichkeit zu bieten, das Übungsmaterial zur Verfügung zu stellen, ist die 24., überarbeitete Auflage des Lösungsbuchs um zusätzliche Prüfungsaufgaben mit Lösungen zur Vertiefung Ihres Wissens erweitert. Wir wünschen Ihnen viel Spaß beim Lernen und [...]  

Contents

Fields of interest
Accounting / Auditing  

Target groups
Lower undergraduate  

Type of publication
Undergraduate textbook  

Online orders shipping within 2-3 days.

2012. VIII, 159 S. Mit online files/update. (Bornhofen Buchführung 1 LÖ) Softcover
17,71 €
ISBN 978-3-8349-3326-3

M. Bornhofen, Koblenz; M.C. Bornhofen, Düsseldorf  

Lösungen zum Lehrbuch Steuerlehre 1 Rechtslage 2012
Mit zusätzlichen Prüfungsaufgaben und Lösungen


Features
Das Lösungsbuch zur Steuerlehre 1 hilft Ihnen, Ihre selbst erarbeiteten Lösungen zu den Fällen des Lehrbuchs zu überprüfen. Um Ihnen die Möglichkeit zu bieten, das Übungsmaterial zur Verfügung zu stellen, ist die 33., überarbeitete Auflage des Lösungsbuchs um zusätzliche Prüfungsaufgaben mit Lösungen zur Vertiefung Ihres Wissens erweitert. Wir wünschen Ihnen viel Spaß beim Lernen und [...]  

Contents
Lösungen zum Lehrbuch Steuerlehre 1. - Zusätzliche Prüfungsaufgaben mit Lösungen.  

Fields of interest
Business Taxation  

Target groups
Lower undergraduate  

Type of publication
Undergraduate textbook  

Online orders shipping within 2-3 days.

2012. VIII, 144 S. 6 Abb. Mit online files/update. (Bornhofen Steuerlehre 1 LÖ) Softcover
17,71 €
ISBN 978-3-8349-3327-0
Managing Creativity in Science and Hi-Tech

Addressing the issues unique to managers of creative technical staff, this guide reflects not only Ronald Kay's long experience observing and teaching successful management techniques, but also treats the expanding challenges due to increasingly globally-based projects and staff. As before, Kay's guide helps readers to prepare themselves, graduate students and others to understand and improve their managerial skills and covers such practical, yet sometimes overlooked, steps as: individual and team behavior of creative technical staff; managing their own and others' R&D projects; hiring, evaluating and compensating technical staff; R&D proposals and administrative functions; and presentations, meetings and organizational culture. New to this edition are a chapter on the global impact of high-tech enterprises and sections on the roles of foundations and government funding and task force participation. Also tackled are the basics of starting, financing and staffing venture-capital-funded [..]

Features
Addressing the issues unique to managers of creative technical staff, this guide reflects not only Ronald Kay's long experience observing and teaching successful management techniques, but also treats the expanding challenges due to increasingly globally-based projects and staff. As before, Kay's guide helps readers to prepare themselves, graduate students and others to understand and improve their [..]

Contents

Fields of interest
R & D / Technology Policy; Job Career in Science and Engineering; Business & Management Science; Business & Economics (general)

Target groups
Research

Type of publication
Monograph

Usually dispatched within 3 to 5 business days.

2012. XIX, 193 p. Hardcover
69,95 €
ISBN 978-3-642-24634-0

Mehrkriterielle Zuschlagserteilung in kombinatorischen Transportausschreibungen

Der Erfolg vieler Handels- und Industrieanwendungen hängt in hohem Maße von ihren Logistik- und Gütertransportprozessen ab. Sebastian Buer untersucht das Problem der Zuschlagsentscheidung eines Verladers bei der Durchführung einer kombinatorischen Transportausschreibung und zeigt Lösungswege auf.

Features
Mittels Transportausschreibungen entscheiden Verlader, welche Transportleistungen von welchen Spediteuren durchgeführt werden sollen. Tobias Buer präsentiert ein Modell und mehrere Lösungsverfahren für die Zuschlagserteilung in Transportausschreibungen. Es werden sowohl die wechselseitigen Abhängigkeiten von Transportleistungen berücksichtigt als auch die zentralen Entscheidungskriterien Kosten und [..]

Contents
Transportausschreibung mit kombinatorischen Auktionen. - Bikriterielle Zuschlagserteilung unter Kosten- und Qualitätsaspekten. - Exaktes und metaheuristisches Pareto-Optimierungsverfahren.

Fields of interest
Production / Logistics

Target groups
Research

Type of publication
Monograph

Online orders shipping within 2-3 days.

2012. XXII, 234 S. 43 Abb. (Produktion und Logistik) Softcover
46,68 €
ISBN 978-3-8349-4136-7

Operations Research Proceedings 2011

Selected Papers of the International Conference on Operations Research (OR 2011), August 30 - September 2, 2011, Zurich, Switzerland

This book contains a selection of refereed papers presented at the "International Conference on Operations Research (OR 2011)" which took place at the University of Zurich from August 30 to September 2, 2011. The conference was jointly organized by the German speaking OR societies from Austria (ÖGOR), Germany (GOR) and Switzerland (SVOR) under the patronage of SVOR. More than 840 scientists and students from over 50 countries attended OR 2011 and presented 620 papers in 16 parallel topical streams, as well as special award sessions. The conference was designed according to the understanding of Operations Research as an interdisciplinary science focusing on modeling complex socio-technical systems to gain insight into behavior under interventions by decision makers. Dealing with "organized complexity" lies in the core of OR and designing useful support systems to master the challenge of system management in complex environment is the ultimate goal of our professional societies. To this end,[..]

Features
This book contains a selection of refereed papers presented at the "International Conference on Operations Research (OR 2011)" which took place at the University of Zurich from August 30 to September 2, 2011. The conference was jointly organized by the German speaking OR societies from Austria (ÖGOR), Germany (GOR) and Switzerland (SVOR) under the patronage of SVOR. More than 840 scientists and students [..]

Contents

Fields of interest
Operation Research / Decision Theory; Operations Research, Mathematical Programming; Optimization

Target groups
Research

Type of publication
Proceedings

Usually dispatched within 3 to 5 business days.

249,00 €
ISBN 978-3-642-29209-5
Organizational Ambidexterity

Implications for the Strategy-Performance Linkage

Today’s companies in diverse industries perceive increasing competition and an accelerating pace of change. To cope with these challenges, they need to leverage their current competencies and exploit existing products and services, while simultaneously build new capabilities to develop innovative solutions. Therefore, instead of selecting and maintaining a focus on either efficiency or flexibility, these firms balance resource allocation and become so-called ambidextrous organizations.

W. Henning Blarr analyzes this balancing act, requiring the ability to simultaneously pursue both incremental and discontinuous change. He shows that compared to organizations focusing on either exploitative or explorative activities, ambidextrous organizations significantly obtain higher levels of financial performance.

Features

Today’s companies in diverse industries perceive increasing competition and an accelerating pace of change. To cope with these challenges, they need to leverage their current competencies and exploit existing products and services, while simultaneously build new capabilities to develop innovative solutions. Therefore, instead of selecting and maintaining a focus on either efficiency or flexibility, these [...]"}

Practice-Driven Research on Enterprise Transformation

This volume constitutes the proceedings of the 4th Working Conference on Practice-Driven Research on Enterprise Transformation (PRET), held in Gdańsk, Poland, on June 27, 2012, as the industrial track of the 24th International Conference on Advanced Information Systems Engineering (CAiSE 2012). Restructuring, divesting, improving performance, and merging are among the usual transformation activities that enterprises conduct to provide answers to the challenging demands put on them. To foster the much-needed debate between researchers and practitioners on these topics, the number of papers accepted for PRET is kept low, providing the authors and the audience with ample time to engage in discussions about both the practical implications of results and the theoretical underpinnings of phenomena observed in industrial practice. This year, five papers were selected after careful review, and each paper is between 20 and 25 pages long, to allow for the presentation of details. The topics covered include [...]"}

Features

This volume constitutes the proceedings of the 4th Working Conference on Practice-Driven Research on Enterprise Transformation (PRET), held in Gdańsk, Poland, on June 27, 2012, as the industrial track of the 24th International Conference on Advanced Information Systems Engineering (CAiSE 2012). Restructuring, divesting, improving performance, and merging are among the usual transformation [...]"}

Recht für Bankfachwirte

Erfolgreich durch die Prüfungen


Features

Prüfungstraining zum Bankfachwirt Recht für Bankfachwirte Das vorliegende Buch ermöglicht Ihnen die systematische Aneignung und Wiederholung des Prüfungssubjects. Beispiele und Abbildungen veranschaulichen die Inhalte, so dass Sie leicht Zugang auch zu den schwierigeren Themen finden. Mit Hilfe der Kontrollfragen, die sich auf die jeweils wesentlichen Inhalte beziehen, können Sie Ihren [...]"}

Contents

Recovery Risiko in der Kreditportfoliomanagement

M. Stefanova, Berlin

Bedeutung und Einfluss stochastischer Verlustquoten in mehrperiodigen Kreditrisikomodellen


Features


Contents

Komponenten des Kreditrisikos; Kreditrisikomodellierung; Reduced-form-Ansätze mit Recovery Risiko; Verlustverteilung bei stochastischen Verlustquoten.

Fields of interest

Finance / Banking

Target groups

Research

Type of publication

Monograph

Online orders shipping within 2-3 days.

2012. XVII, 160 S. 18 Abb. Softcover

46.68 €
ISBN 978-3-8349-4225-8

Risk Analysis in Stochastic Supply Chains

T.-M. Choi, The Hong Kong Polytechnic University, Hung Hom, Kowloon, Hong Kong; C.-H. Chiu, City University of Hong Kong, Kowloon Tong, Kowloon, Hong Kong

A Mean-Risk Approach

Risk analysis is crucial in stochastic supply chain models. Over the last few years, the pace has quickened for research attempting to explore risk analysis issues in supply chain management problems, while the majority of recent papers focus on conceptual framework or computational numerical analysis. Pioneered by Nobel laureate Markowitz in the 1950s, the mean-risk (MR) formulation became a fundamental theory for risk management in finance. Despite the significance and popularity of MR-related approaches in finance, their applications in studying multi-echelon supply chain management problems have only been seriously explored in recent years. While the MR approach has already been shown to be useful in conducting risk analysis in stochastic supply chain models, there is no comprehensive reference source that provides the state-of-the-art findings on this important model for supply chain management. Thus it is significant to have a book that reviews and extends the MR related works for supply[...]

Features

Risk analysis is crucial in stochastic supply chain models. Over the last few years, the pace has quickened for research attempting to explore risk analysis issues in supply chain management problems, while the majority of recent papers focus on conceptual framework or computational numerical analysis. Pioneered by Nobel laureate Markowitz in the 1950s, the mean-risk (MR) formulation became a fundamental[...]

Contents

Mean-Risk Analysis: An Introduction; Mean-Risk Analysis of Single-Period Inventory Problems; Mean-Risk Analysis of Multi-Period Inventory Problems; Mean-Risk Analysis of Supply Chain Coordination Problems; Mean-Risk Analysis: Conclusion, Future Research and Extensions.

Fields of interest

Operation Research / Decision Theory; Operations Research, Mathematical Programming; Production / Logistics

Target groups

Research

Type of publication

Monograph

Usually dispatched within 3 to 5 business days.


99.95 €
ISBN 978-1-4614-3868-7
**Social Branding**

Strategien - Praxisbeispiele - Perspektiven


**Features**


**Contents**


**Fields of interest**

Marketing; Sales/Distribution/Call Center/Customer Service; Management/Business for Professionals; Media Research

**Target groups**

Professional/practitioner

**Type of publication**

Professional book

**Online orders shipping within 2-3 days.**

2012, 372 S. 174 Abb., 50 in Farbe. Hardcover

65,37 €
ISBN 978-3-8349-3224-2
Steuerlehre 1 Rechtslage 2012

Allgemeines Steuerrecht, Abgabenordnung, Umsatzsteuer


Damit wird der komplette Rechtsstand für das Jahr 2012 garantiert.

Features


Contents

Allgemeines Steuerrecht - Abgabenordnung - Umsatzsteuer.

Fields of interest

Business Taxation

Target groups

Upper undergraduate

Type of publication

Undergraduate textbook

Online orders shipping within 2-3 days.

2012, XX, 436 S. 70 Abb. Mitt online files/update. (Bornhofen Steuerlehre 1 LB) Softcover

18,64 €

ISBN 978-3-8349-3325-6

Strategische Innovationen in der Hotellerie

Eine ressourcenorientierte Fallstudienanalyse touristischer Dienstleistungsunternehmen


Features


Contents

Dienstleistungen und Innovationen - Ressourcen und Kompetenzen - Untersuchungsmethodik: Eine explorative qualitative Untersuchung - Fallstudien.

Fields of interest

Technology Management

Target groups

Research

Type of publication

Monograph

Online orders shipping within 2-3 days.

2012, XXI, 382 S. 41 Abb. (Entrepreneurial and Financial Studies) Softcover

56,03 €

ISBN 978-3-8349-4223-4

Sustainable Supply Chains

Models, Methods, and Public Policy Implications

A sustainable enterprise is one that contributes to sustainable development by simultaneously delivering economic, social and environmental benefits or what has been termed “the triple bottom line.” While pursuing profit, socially responsible companies should be sensitive to the environment and uphold the rights of all the firm’s stakeholders. This edited volume explores leading-edge ideas — both by academics and forward-thinking companies — to (re)design and market products, source, manufacture, and eventually distribute and recover or dispose of them in an environmentally, ecologically, and socially responsible way. This edited volume is made up of fifteen chapters loosely grouped into clusters. After an introduction, chapter 2 shows the greenhouse emissions at various levels, from countries all the way to individual products. Chapters 3–7 each focus on an industrial sector and address issues specific to that industry, with chapter 7 presenting a case study on LEED certification of Miller Hall.

Features

A sustainable enterprise is one that contributes to sustainable development by simultaneously delivering economic, social and environmental benefits or what has been termed “the triple bottom line.” While pursuing profit, socially responsible companies should be sensitive to the environment and uphold the rights of all the firm’s stakeholders. This edited volume explores leading-edge ideas — both by academics and forward-thinking companies.

Contents


Fields of interest

Operation Research / Decision Theory; Production / Logistics; Industrial and Production Engineering; Sustainable Development

Target groups

Research

Type of publication

Contributed volume

Usually dispatched within 3 to 5 business days.


129,95 €

ISBN 978-1-4419-6104-4
**The Liberation of the Serfs**

The Economics of Unfree Labor

In Europe, the liberation of the serfs was a project initiated in 1806 with a scheduled completion date of 1810. It was obvious to those who planned the project that the liberation of the serfs involved a complete overhaul of agriculture as it was then known as Europe moved from feudalism to capitalism. For this reason, Prussia was careful in implementing the reform, and did not rush, after seeing the Kingdom of Westphalia perishing under its crushing debt accumulated in part from Napoleon’s failed Russian campaign. The basic hypothesis of this book is that slave labor can never be efficient and will therefore disappear by itself. However, this process of disappearance can take many years. For instance, two generations after the importation of slaves to North America had ended, the states still fought over the issue, and this despite the fact that Ely Whitney had invented the Cotton Gin in 1793 and already then made slavery in cotton production literally superfluous. While there have been several [...] 

**Features**

Testamentsvollstreckung durch Steuerberater und Vermögensverwalter is the modern form of the Vermögensnachfolgeverwaltung. Sie haben umfassenden Einblick in die Vermögensverhältnisse ihrer Mandanten und genießen deren Vertrauen. Das Werk bietet nicht nur das vollständige Grundlagenwissen für den Fachberater Testamentsvollstreckung und Nachlassverwaltung (DStV e.V.), sondern ist darüber hinaus durch die praxisnahe Gestaltung für jeden, der sich qualitätsorientierter Testamentsvollstreckung verschrieben hat, ein wertvoller Ratgeber.

**Fields of interest**

Business Taxation

**Target groups**

Professional/practitioner

**Type of publication**

Professional book

**Contents**


**Fields of interest**

Business & Economics (general)

**Target groups**

Research

**Type of publication**

Contributed volume

**Usually dispatched within 3 to 5 business days.**

---

**The New Collective Bargaining**

This book explains how collective bargaining has changed in important and lasting ways over the past decade. We are now seeing a new and powerful strain of the concession bargaining that traces its roots back to the early 1980s. The collective bargaining of the past decade can be characterized as ultra-concession bargaining because it is an intense and self-perpetuating deviation from earlier concession bargaining. Employers now act and unions react, rather than the other way around. Employers no longer have to establish a credible case of financial hardship, or commit to the traditional quid pro quo of saving jobs in return for lower labor costs, or guarantee singularity (that concession bargaining is a single even that will not have to be repeated). Not all collective bargaining occurs as this extreme variant but it has become the prevailing form. Essentially, there has been a sea change in collective bargaining in America. The book describes the transformation of collective bargaining in a[...]

**Features**

No back cover copy.

**Contents**


**Fields of interest**

Economics; Labor Economics; Industrial Organization

**Target groups**

Research

**Type of publication**

Brief

**Usually dispatched within 3 to 5 business days.**

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49,95 €
The Yangtze River Delta

Business Guide to the Shanghai Region

Designed with the foreign investor in mind, this guide presents region and city-specific intelligence available through few other English sources. Its pages overview the region from a business standpoint, examine the economy of the region’s provinces and prominent cities in depth, and introduce the basics of establishing a business in the region. With detailed economic indicators and primary research largely from Chinese government and news sources, this guide is an accessible and engaging compilation of the practical information you need for doing business in the region. This is part of a five book business guide series: the Yangtze River Delta, Beijing and Northeast China, South China and the Greater Pearl River Delta, Central China and West China.

Features
Designed with the foreign investor in mind, this guide presents region and city-specific intelligence available through few other English sources. Its pages overview the region from a business standpoint, examine the economy of the region’s provinces and prominent cities in depth, and introduce the basics of establishing a business in the region. With detailed economic indicators and primary research [...]

Contents

Fields of interest
Management/Business for Professionals; Entrepreneurship

Target groups
Professional/practitioner

Type of publication
Professional book

Usually dispatched within 3 to 5 business days.

39.95 €
ISBN 978-3-642-27623-1

M. Buchholz, Ilmenau, Deutschland

Theorie der Variantenvielfalt

Ein produktions- und absatzwirtschaftliches Erklärungsmodell


Features
Transportversicherung

Recht und Praxis


Features


Fields of interest

Insurance

Target groups

Professional/practitioner

Type of publication

Professional book

Usually dispatched within 3 to 5 business days.

2012, XII, 408 S. Hardcover

60,70 €
ISBN 978-3-8349-1064-6

Unternehmensbewertung im Erbschaftsteuerrecht

Eine empirische Analyse unter besonderer Berücksichtigung der Kapitalkostenableitung


Features


Fields of interest

Accounting / Auditing

Target groups

Research

Type of publication

Monograph

Online orders shipping within 2-3 days.

2012, XXV, 258 S. 50 Abb. (Forschungsreihe Rechnungslegung und Steuern) Softcover

46,68 €
ISBN 978-3-8349-3981-4

Verhaltensbeeinflussung durch Sozialmarketing

Eine Analyse der Gestaltungsmöglichkeiten


Features


Fields of interest

Marketing

Target groups

Research

Type of publication

Monograph

Online orders shipping within 2-3 days.


46,68 €
ISBN 978-3-8349-4270-8
Wann Thomas Mann Ihr Kunde wäre

Lektionen für Servicemanager


Wirtschaftsprivatrecht
Grundlagen und Praxis des Bürgerlichen Rechts


Features

Contents

Fields of interest
Law and Economics

Target groups
Upper undergraduate

Type of publication
German textbook

Online orders shipping within 2-3 days.

Zusammenhang zwischen Kundenzufriedenheit und Kundenloyalität

Eine empirische Analyse am Beispiel der deutschen Automobilindustrie


Features
Die Einflussstärke der Kundenzufriedenheit auf die Kundenloyalität und die funktionalen Formen des Zusammenhangs zwischen den beiden Konstrukten ist für die Unternehmenspraxis entscheidend, um Investitionen in die Kundenzufriedenheit – mit dem Ziel die Kundenloyalität zu steigern – effizient planen zu können. Doris Skala-Gast untersucht den Zusammenhang zwischen Kundenzufriedenheit und Kundenloyalität über [...]
Bildung und Kompetenz

Theoretische und empirische Perspektiven auf außerschulische Handlungsfelder


Features

Bildung und Kompetenz als Begriffskonstruktionen werden im öffentlichen Diskurs, aber oft auch auf wissenschaftlichem Terrain vor allem mit schulischen Formen des Lernens in Verbindung gebracht. Dementsprechend sind empirische Forschungen im Kontext „Empirischer Bildungsforschung“ aktuell stark schulbezogen und in ihren theoretischen Bezügen auf die Begriffe von Bildung und Kompetenz meist einseitig [...]
Experience of School Transitions
Policies, Practice and Participants

Leaving school, whether to move on to training, work or education, is a fundamental rite of passage the world over. This volume draws on a wealth of international sources and studies in its analysis of the ‘transitions’ young students make as they move on from their secondary schooling. It identifies how these transitions are planned for by policymakers, enacted by school staff and engaged with by students themselves. With data from a range of nations with advanced industrial economies, the book delinates how the policies relating to these transitions need to be conceived and implemented, how the transitions themselves are negotiated by young people, and how they might be shaped to meet the varied needs of the students they are designed to help. The authors argue that the relationship, often complex, between what schools provide in the way of preparation, and the ways in which students take up what is on offer, is the crucial nexus for understanding the experience of transitions by young people.[…]

Features
Leaving school, whether to move on to training, work or education, is a fundamental rite of passage the world over. This volume draws on a wealth of international sources and studies in its analysis of the ‘transitions’ young students make as they move on from their secondary schooling. It identifies how these transitions are planned for by policymakers, enacted by school staff and engaged with by students.[…]

Contents

Fields of interest
Educational Policy and Politics; Higher Education; Professional and Vocational Education

Target groups
Research

Type of publication
 Contributed volume

Usually dispatched within 3 to 5 business days.

2012. XII, 274 p. 5 illus. Hardcover

99,95 €
ISBN 978-94-007-4197-3

Guide to Effective Grant Writing
How to Write a Successful NIH Grant Application

Guide to Effective Grant Writing: How to Write a Successful NIH Grant, 2nd edition is a fully updated follow-up to the popular original. It is written to help the 100,000+ post-graduate students and professionals who need to write effective proposals for grants. There is little or no formal teaching about the process of writing grants for NIH, and many grant applications are rejected due to poor writing and weak formulation of ideas. Procuring grant funding is the central key to survival for any academic researcher in the biological sciences; thus, being able to write a proposal that effectively illustrates one’s ideas is essential. Covering all aspects of the proposal process, from the most basic questions about form and style to the task of seeking funding, this volume offers clear advice backed up with excellent examples. Included are a number of specimen proposals to help shed light on the important issues surrounding the writing of proposals. The Guide is a clear, straightforward, and[…]

Features
Getting funding from the NIH for research is one of the most important skills required of all academic researchers, and here, Otto O. Yang offers a fully updated second edition to his straightforward, common-sense Guide to Effective Grant Writing. Yang shares his perspectives from both ends: as a pioneering researcher applying for funding as well as an NIH scientific consultant reviewing grants. He […]

Contents

Fields of interest
Education (general); Administration, Organization and Leadership; Science Education; Teaching and Teacher Education; Learning and Instruction

Target groups
Professional/practitioner

Type of publication
Monograph

Usually dispatched within 3 to 5 business days.

2012. XIV, 90 p. 6 illus. Softcover

24,95 €
ISBN 978-1-4614-1580-0

Hochbegabung, Begabung und Inklusion
Schulische Entwicklung im Mehrebenensystem


Features
Hochbegabung wird vielfach als pädagogisches Phänomen betrachtet, weniger als Gegenstand empirischer Bildungsforschung. Vor dem Hintergrund von Schulentwicklungsprozessen in schulischen Netzwerken wird in dieser Studie ein solcher Ansatz gesucht. Als empirisches Fallbeispiel dienen die Kooperationen „Hochbegabung fördern“ in Niedersachsen, die seit 2003 als flächendeckendes, bildungspolitisches Konzept zur […]

Contents

Fields of interest
Education (general); Administration, Organization and Leadership; Science Education; Teaching and Teacher Education; Learning and Instruction

Target groups
Professional book

Usually dispatched within 3 to 5 business days.

2012. 344 S. 4 Abb. (Educational Governance, Vol. 1B) Softcover

37,34 €
ISBN 978-3-531-19485-1
Interkulturelle Pädagogik und Sprachliche Bildung

Herausforderungen für die Lehrerbildung


Features


Fields of interest

Education (general); Migration

Target groups

Professional/practitioner

Type of publication

Professional book

Online orders shipping within 2-3 days.

Making Sense of Education

Fifteen Contemporary Educational Theorists in their own Words

This volume gives educational theorists the chance to let rip and say what they really want to say. In doing so it sends a blast of fresh air through the dusty halls of academe. The vast majority of the literature in education theory and philosophy follows the conventions of academic writing, and rightly so. Yet its formal, abstract and objective style, which focuses on the careful presentation of theoretical and philosophical arguments, doesn’t always give us insights into what motivates and drives the authors —while for academic neophytes it can be dense and arcane. Here, those same theorists and philosophers have been given the chance to expand at length on the topics that most exercise them. What concerns them, what gets them up in the morning, and what really matters most to them? Readers will discover what happens when these thinkers are explicitly invited to go beyond academic conventions and experiment with form, style and content. Featuring collected essays from leading educationalists from...[...]

Features

This volume gives educational theorists the chance to let rip and say what they really want to say. In doing so it sends a blast of fresh air through the dusty halls of academe. The vast majority of the literature in education theory and philosophy follows the conventions of academic writing, and rightly so. Yet its formal, abstract and objective style, which focuses on the careful presentation of...[...]

Contents

**Rhetorical Ways of Thinking**

Vygotskian Theory and Mathematical Learning

Rhetorical Ways of Thinking focuses on how the construction of learning models the interpretation of a mathematical situation. It is a comprehensive examination of the role of sociocultural-historical theory developed by Vygotsky. This book puts forward the supposition that the major assumptions of sociocultural-historic theory are essential to understanding the theory’s application to mathematical pedagogy, which explores issues relevant to learning and teaching mathematics-in-context, thus providing a valuable practical tool for general mathematics education research. The most important goal, then, is to exemplify the merging of the theory with practice and the subsequent applications to mathematics teaching and learning. This monograph contains five chapters, including a primer to Vygotsky’s sociocultural historic theory, three comprehensive empirical studies examining: prospective teachers’ perception of mathematics teaching and learning and the practice of scaffolded instruction to assist…[

**Features**

Rhetorical Ways of Thinking focuses on how the construction of learning models the interpretation of a mathematical situation. It is a comprehensive examination of the role of sociocultural-historical theory developed by Vygotsky. This book puts forward the supposition that the major assumptions of sociocultural-historic theory are essential to understanding the theory’s application to mathematical…[

**Contents**


**Fields of interest**

Mathematics Education; Educational Philosophy; Educational Psychology; Learning and Instruction

**Target groups**

Research

**Type of publication**

Monograph

**Usually dispatched within 3 to 5 business days.**

2012. XII, 98 p. 21 illus. Hardcover

99.95 €

ISBN 978-94-007-4064-8

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**Student Participation in Online Discussions**

Challenges, Solutions, and Future Research

The increasingly prevalent use of online- or blended-learning in schools and universities has resulted in asynchronous online discussion forums becoming an increasingly common means to facilitate dialogue between instructors and students, as well as between students beyond the boundaries of their physical classrooms. This proposed academic book contributes to the literature on asynchronous online discussions in the following three main ways: First, it reviews previous research studies in order to identify the factors leading to limited student contribution. Limited student contribution is defined as students making few or no postings, students exhibiting surface-level thinking or students demonstrating low-level knowledge construction in online discussions. It then identifies the various empirically-based guidelines to address the factors. Second, three potential guideline dilemmas that educators may encounter: (a) use of grades, (b) use of number of posting guideline, and (c)[…[

**Features**

The increasingly prevalent use of online- or blended-learning in schools and universities has resulted in asynchronous online discussion forums becoming a common means of facilitating dialogue between instructors and students, as well as between students and students beyond the boundaries of the physical classroom. This book provides a comprehensive review of previous research studies…[

**Contents**

- 1 Introduction to asynchronous online discussion. - Literature Review. - 3 Challenges: Students making few or no postings, Students exhibiting surface-level critical thinking, Students showing low-level knowledge construction. - 4 Potential Solutions: Use of Grades, Use of number of posting guideline, Instructor facilitation, Student/Peer facilitation. - 5 Case Studies on student facilitation: What motivates students to participate? - 6 Case Studies on student facilitation: How to sustain participants’ online discussions? - 7 Case Studies on student facilitation: How to foster high levels of…[

**Fields of interest**

Mathematics Education

**Target groups**

Research

**Type of publication**

Monograph

**Usually dispatched within 3 to 5 business days.**

2012. XII, 140 p. 10 illus. Hardcover

99.95 €

ISBN 978-1-4614-2369-0

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**Überschlagsrechnen in der Grundschule**

Lösungsverhalten von Kindern bei direkten und indirekten Überschlagsfragen


**Features**

Überschlagsrechnen ist ein wichtiges Thema der Grundschulmathematik, das bisher kaum empirisch erforscht ist. Sabrina Hunke führt eine Interviewstudie mit 42 Kindern des vierten Schuljahres durch, um deren Lösungsverhalten beim Überschlagsrechnen zu untersuchen. Dazu werden Aufgaben des Typs „Wie viel ungefähr?“ und „Reicht das Geld?“ eingesetzt, das heißt direkte und indirekte Überschlagsfragen. Die […]

**Contents**


**Fields of interest**

Mathematics Education

**Target groups**

Research

**Type of publication**

Monograph

**Usually dispatched within 3 to 5 business days.**

2012. XVI, 314 S. 30 Abb. (Dortmunder Beiträge zur Entwicklung und Erforschung des Mathematikunterrichts) Softcover

65,37 €

ISBN 978-3-8348-2518-6
Engineering

Advanced Microsystems for Automotive Applications 2012

Smart Systems for Safe, Sustainable and Networked Vehicles

The ambitious objectives of future road mobility, i.e. fuel efficiency, reduced emissions, and zero accidents, imply a paradigm shift in the concept of the car regarding its architecture, materials, and propulsion technology, and require an intelligent integration into the systems of transportation and power. ICT, components and smart systems have been essential for a multitude of recent innovations, and are expected to be key enabling technologies for the changes ahead, both inside the vehicle and at its interfaces for the exchange of data and power with the outside world. It has been the objective of the International Forum on Advanced Microsystems for Automotive Applications (AMAA) for almost two decades to detect novel trends and to discuss technological implications and innovation potential from day one on. In 2012, the topic of the AMAA conference is "Smart Systems for Safe, Sustainable and Networked Vehicles". The conference papers selected for this book address current research, developments.[...]

Contents

Fields of interest
Electrical Engineering; Mechanical Engineering

Target groups
Professional/practitioner

Type of publication
Proceedings

Usually dispatched within 3 to 5 business days.

2012. XVIII, 366 p. 175 illus. Hardcover
189,95 €
ISBN 978-3-642-29672-7

Advanced Sliding Mode Control for Mechanical Systems

Design, Analysis and MATLAB Simulation

"Advanced Sliding Mode Control for Mechanical Systems: Design, Analysis and MATLAB Simulation" takes readers through the basic concepts, covering the most recent research in sliding mode control. The book is written from the perspective of practical engineering and examines numerous classical sliding mode controllers, including continuous time sliding mode control, discrete time sliding mode control, fuzzy sliding mode control, neural sliding mode control, backstepping sliding mode control, dynamic sliding mode control, sliding mode control based on observer, terminal sliding mode control, sliding mode control for robot manipulators, and sliding mode control for aircraft. This book is intended for engineers and researchers working in the field of control. Dr. Jinkun Liu works at Beijing University of Aeronautics and Astronautics and Dr. Xinhua Wang works at the National University of Singapore.

Features
"Advanced Sliding Mode Control for Mechanical Systems: Design, Analysis and MATLAB Simulation" takes readers through the basic concepts, covering the most recent research in sliding mode control. The book is written from the perspective of practical engineering and examines numerous classical sliding mode controllers, including continuous time sliding mode control, discrete time sliding mode control, fuzzy sliding mode control, neural sliding mode control, backstepping sliding mode control, dynamic sliding mode control, sliding mode control based on observer, terminal sliding mode control, sliding mode control for robot manipulators, and sliding mode control for aircraft. This book is intended for engineers and researchers working in the field of control.

Contents

Fields of interest
Control; Vibration, Dynamical Systems, Control; Systems Theory, Control; Aerospace Technology and Astronautics; Industrial and Production Engineering

Target groups
Research

Type of publication
Monograph

Online orders shipping within 2-3 days.

2012. 360 p. 165 illus. Hardcover
119,95 €
ISBN 978-3-642-20906-2

Advances in Mechanical and Electronic Engineering

Volume 2

This book includes the volume 2 of the proceedings of the 2012 International Conference on Mechanical and Electronic Engineering(ICMEE2012), held at June 23-24,2012 in Hefei, China. The conference provided a rare opportunity to bring together worldwide researchers who are working in the fields. This volume 2 is focusing on Mechatronic Engineering and Technology, Electronic Engineering and Electronic Information Technology.

Features
This book includes the volume 2 of the proceedings of the 2012 International Conference on Mechanical and Electronic Engineering(ICMEE2012), held at June 23-24,2012 in Hefei, China. The conference provided a rare opportunity to bring together worldwide researchers who are working in the fields. This volume 2 is focusing on Mechatronic Engineering and Technology, Electronic Engineering and Electronic Information Technology.

Contents
Mechatronic Engineering and Technology.- Electronic Engineering and Electronic Information Technology.

Fields of interest
Electrical Engineering; Mechanical Engineering

Target groups
Research

Type of publication
Proceedings

Usually dispatched within 3 to 5 business days.

2012. XX, 672 p. 365 illus. (Lecture Notes in Electrical Engineering, Vol. 177) Hardcover
199,95 €
ISBN 978-3-642-31515-2
Advances in Reconfigurable Mechanisms and Robots I

Advances in Reconfigurable Mechanisms and Robots I provides a selection of key papers presented in The Second ASME/IFToMM International Conference on Reconfigurable Mechanisms and Robots (ReMAR 2012) held on 9th -11th July 2012 in Tianjin, China. This ongoing series of conferences will be covered in this ongoing collection of books. A total of seventy-eight papers are divided into seven parts to cover the topology, kinematics and design of reconfigurable mechanisms and robots. Part I Reconfiguration Theory; Part II Topology, kinematics and Design of Reconfigurable Mechanisms; Part III Reconfigurable Parallel Mechanisms; Part IV Bio-Reconfiguration Techniques and Biomedical Devices; Part V Analysis and Design of Reconfigurable Robots; Part VI Control of Reconfigurable Robots; Part VII Deployable Mechanisms and Applications of Reconfigurable Mechanisms.

Fields of interest
Robotics and Automation; Manufacturing, Machines, Tools; Power Electronics, Electrical Machines and Networks

Target groups
Research

Type of publication
Proceedings

Usually dispatched within 3 to 5 business days.

2012. XVII, 880 p. 569 illus., 23 in color. Hardcover

69,95 €

Airbreathing Propulsion

An Introduction

Airbreathing Propulsion covers the physics of combustion, fluid and thermo-dynamics, and structural mechanics of airbreathing engines, including piston, turboprop, turboturb and ramjet engines. End-of-chapter exercises allow the reader to practice the fundamental concepts behind airbreathing propulsion, and the included PAGIC computer code will help the reader to examine the relationships between the performance parameters of different engines. Large amounts of data have on many different piston, turbojet, and turboprop engines have been compiled for this book and are included as an appendix. This textbook is ideal for senior undergraduate and graduate students studying aeronautical engineering, aerospace engineering, and mechanical engineering.

Features
Airbreathing Propulsion covers the physics of combustion, fluid and thermo-dynamics, and structural mechanics of airbreathing engines, including piston, turboprop, turbojet, turbofan, and ramjet engines. End-of-chapter exercises allow the reader to practice the fundamental concepts behind airbreathing propulsion, and the included PAGIC computer code will help the reader to examine the relationships [...]

Contents

Fields of interest
Aerospace Technology and Astronautics; Thermodynamics; Engineering Fluid Dynamics; Engineering Thermodynamics, Heat and Mass Transfer

Target groups
Graduate

Type of publication
Graduate/advanced undergraduate textbook

Usually dispatched within 3 to 5 business days.

2012. IX, 309 p. 98 illus., 9 in color. (Springer Aerospace Technology) Hardcover

69,95 €
ISBN 978-1-4614-3531-0

Angewandter Straßenbau

Straßenfertiger im Einsatz


Features
Beispiele aus der Baubetriebspraxis


Features

Contents

Fields of interest
Construction Management

Target groups
Upper undergraduate

Type of publication
German textbook

Online orders shipping within 2-3 days.

2012. XI, 282 S. 182 Abb. Softcover
32,66 €
ISBN 978-3-642-30478-1

Biotechnologische Energieumwandlung in Deutschland

Stand, Kontext, Perspektiven


Features

Contents

Fields of interest
Renewable and Green Energy; Energy Economics; Industrial and Production Engineering

Target groups
Research

Type of publication
Monograph

Online orders shipping within 2-3 days.

2012. 44 S. 8 Abb. in Farbe. (acatech POSITION, 2) Softcover
18,64 €
ISBN 978-3-642-30478-1

Climate Change Mitigation

A Balanced Approach to Climate Change

Climate change is mainly caused by emissions of CO2 from burning fossil fuels, which provides over 85% of the world’s energy. Strategies for mitigating climate change are connected with handling economic and social activities through their effects on the use of energy. Climate Change Mitigation investigates the costs of mitigation measures in comparison to their benefits, and compares the effects of implementing mitigation measures on various areas such as energy security and energy economy. “For 20 years, diplomats have struggled to make progress on climate change, mostly because global diplomacy is not well-linked to the realities of how nations and firms control emissions and adapt to the impacts of a changing climate. In this excellent book, Dr Yamaguchi has assembled experts to guide the redesign of global policy. The authors underscore how global warming efforts must resonate with other policy goals.” David G. Victor, Director, Laboratory on International Law and Regulation and Professor, [...]
Computational Biomechanics

Theoretical Background and Biological/Biomedical Problems

Rapid developments have taken place in biological/biomedical measurement and imaging technologies as well as in computer analysis and information technologies. The increase in data obtained with such technologies invites the reader into a virtual world that represents realistic biological tissue or organ structures in digital form and allows for simulation and what is called “in silico medicine.” This volume is the third in a textbook series and covers both the basics of continuum mechanics of biosolids and biofluids and the theoretical core of computational methods for continuum mechanics analyses. Several biomechanics problems are provided for better understanding of computational modeling and analysis. Topics include the mechanics of solid and fluid bodies, fundamental characteristics of biosolids and biofluids, computational methods in biomechanics analysis/simulation, practical problems in orthopedic biomechanics, dental biomechanics, ophthalmic biomechanics, cardiovascular biomechanics, etc.

Features

Rapid developments have taken place in biological/biomedical measurement and imaging technologies as well as in computer analysis and information technologies. The increase in data obtained with such technologies invites the reader into a virtual world that represents realistic biological tissue or organ structures in digital form and allows for simulation and what is called “in silico medicine.” This [-]

Contents


Fields of interest

Biomedical Engineering; Molecular Medicine; Medicinal Chemistry

Target groups

Research

Type of publication

Graduate/advanced undergraduate textbook

Due: March 31, 2012

Control of Surge in Centrifugal Compressors by Active Magnetic Bearings

Theory and Implementation

Surge Control of Active-Magnetic-bearing-suspended Centrifugal Compressors sets out the fundamentals of integrating active magnetic bearing (AMB) rotor suspension technology in compressor systems, and describes how this relatively new bearing technology can be employed in active control of compressor surge initiation. The authors provide a self-contained and comprehensive review of rotordynamics and the fundamentals of AMB technology. The active stabilization of compressor surge employing AMBs in a machine is fully explored, from modeling of instability and controller design, to the implementation and experimental testing of the control algorithm in a specially-constructed, industrial-size centrifugal compression system. The results of these tests demonstrate the great potential of the new surge control method suggested in this text. This book will be useful for engineers in industries that involve turboexpanders and magnetic bearings, as well as for researchers and graduate students in the field.

Features

Control of Surge in Centrifugal Compressors by Active Magnetic Bearings sets out the fundamentals of integrating the active magnetic bearing (AMB) rotor suspension technology in compressor systems, and describes how this relatively new bearing technology can be employed in the active control of compressor surge. The authors provide a self-contained and comprehensive review of rotordynamics and the fundamentals of AMB technology.

Contents


Fields of interest

Control; Aerospace Technology and Astronautics; Energy Storage; Manufacturing, Machines, Tools; Building Physics, HVAC; Fossil Fuels (incl. Carbon Capture)

Target groups

Research

Type of publication

Professional book

Usually dispatched within 3 to 5 business days.

2013. XXI, 275 p. 187 illus., 133 in color. (Advances in Industrial Control) Hardcover

99,95 €

Fundamentals of Mass Determination

In this book on Fundamentals of Mass Determination, the definition and dissemination of units of mass is explained, starting with an introduction to metrology and mass determination. Establishing a mass scale requires corresponding mass standards and mass comparators. The metrological requirements for weighing instruments, weight pieces, and measuring conditions are explained and discussed based on international directives and applicable legal regulations. International directives and institutions are striving towards the worldwide uniform implementation of these requirements. Processes used to determine density and volume are described to the extent that they apply to mass determination. Calculating measurement uncertainty entails taking into consideration the effect of influence variables on mass determination. An overview of this topic is provided to make it easier to determine and specify measurement uncertainty in practice, while additional information in the form of tables, illustrations, and [-]

Features

In this book on Fundamentals of Mass Determination, the definition and dissemination of units of mass is explained, starting with an introduction to metrology and mass determination. Establishing a mass scale requires corresponding mass standards and mass comparators. The metrological requirements for weighing instruments, weight pieces, and measuring conditions are explained and discussed based on international directives and applicable legal regulations.

Contents


Fields of interest

International Norms and Legal Requirements for Mass Determination.

Target groups

Professional/practitioner

Type of publication

Professional book

Online orders shipping within 2-3 days.

2012. IX, 114 p. Hardcover

79,95 €
ISBN 978-3-642-11936-1
Future Control and Automation
Proceedings of the 2nd International Conference on Future Control and Automation (ICFCA 2012) - Volume 1
This volume Future Control and Automation - Volume 1 includes best papers selected from 2012 2nd International Conference on Future Control and Automation (ICFCA 2012) held on July 1-2, 2012, Changsha, China. Future control and automation is the use of control systems and information technologies to reduce the need for human work in the production of goods and services. This volume can be divided into five sessions on the basis of the classification of manuscripts considered, which is listed as follows: Identification and Control, Navigation, Guidance and Sensor, Simulation Technology, Future Telecommunications and Control.

Features
This volume Future Control and Automation - Volume 1 includes best papers selected from 2012 2nd International Conference on Future Control and Automation (ICFCA 2012) held on July 1-2, 2012, Changsha, China. Future control and automation is the use of control systems and information technologies to reduce the need for human work in the production of goods and services. This volume can be divided into [...]
Mechanical Properties of Materials

The subject of mechanical behavior has been in the front line of basic studies in engineering curricula for many years. This textbook was written for engineering students with the aim of presenting, in a relatively simple manner, the basic concepts of mechanical behavior in solid materials. A second aim of the book is to guide students in their laboratory experiments by helping them to understand their observations in parallel with the lectures of their various courses; therefore the first chapter of the book is devoted to mechanical testing. Another aim of the book is to provide practicing engineers with basic help to bridge the gap of time that has passed from their graduation up to their actual involvement in engineering work. The book also serves as the basis for more advanced studies and seminars when pursuing courses on a graduate level. The content of this textbook and the topics discussed correspond to courses that are usually taught in universities and colleges all over the world, but with[...]

Features

The subject of mechanical behavior has been in the front line of basic studies in engineering curricula for many years. This textbook was written for engineering students with the aim of presenting, in a relatively simple manner, the basic concepts of mechanical behavior in solid materials. A second aim of the book is to guide students in their laboratory experiments by helping them to understand their[...]

Contents


Fields of interest

Continuum Mechanics and Mechanics of Materials; Characterization and Evaluation of Materials; Operating Procedures, Materials Treatment

Target groups

Research

Type of publication

Graduate/advanced undergraduate textbook

Usually dispatched within 3 to 5 business days.

Modelling and Controlling Hydropower Plants

Hydroelectric power stations are a major source of electricity around the world; understanding their dynamics is crucial to achieving good performance. The electrical power generated is normally controlled by individual feedback loops on each unit. The reference input to the power loop is the grid frequency deviation from its set point, thus structuring an external frequency control loop. The book discusses practical and well-documented cases of modelling and controlling hydropower stations, focused on a pumped storage scheme based in Dinorwig, North Wales. These accounts are valuable to specialist control engineers who are working in this industry. In addition, the theoretical treatment of modern and classic controllers will be useful for graduate and final year undergraduate engineering students. This book reviews SISO and MIMO models, which cover the linear and nonlinear characteristics of pumped storage hydroelectric power stations. The most important dynamic features are discussed. The[...]

Features

Hydroelectric power stations are a major source of electricity around the world; understanding their dynamics is crucial to achieving good performance. Modelling and Controlling Hydropower Plants discusses practical and well-documented cases of modelling and controlling hydropower station modelling and control, focusing on a pumped storage scheme based in Dinorwig, North Wales. [...]

Contents

Part I: Hydropower Plants.- Hydropower - a Historical Perspective.- Part II: Modelling the Power Plant.- Part III: Controlling the Power Plant.

Fields of interest

Control; Renewable and Green Energy; Renewable and Green Energy

Target groups

Professional/practitioner

Type of publication

Monograph

Usually dispatched within 3 to 5 business days.

Modern Advances in Intelligent Systems and Tools

Intelligent systems provide a platform to connect the research in artificial intelligence to real-world problem solving applications. Various intelligent systems have been developed to face real-world applications. This book discusses the modern advances in intelligent systems and the tools in applied artificial intelligence. It consists of twenty-three chapters authored by participants of the 25th International Conference on Industrial, Engineering & Other Applications of Applied Intelligent Systems (IEA/AIE 2012) which was held in Dalian, China. This book is divided into six parts, including Applied Intelligence, Cognitive Computing and Affective Computing, Data Mining and Intelligent Systems, Decision Support Systems, Machine Learning, and Natural Language Processing. Each part includes three to five chapters. In these chapters, many approaches, applications, restrictions, and discussions are presented. The material of each chapter is self-contained and was reviewed by at least two anonymous[...]

Features

Intelligent systems provide a platform to connect the research in artificial intelligence to real-world problem solving applications. Various intelligent systems have been developed to face real-world applications. This book discusses the modern advances in intelligent systems and the tools in applied artificial intelligence. It consists of twenty-three chapters authored by participants of the 25th[...]

Contents


Fields of interest

Computational Intelligence; Artificial Intelligence (incl. Robotics)

Target groups

Research

Type of publication

Proceedings

Usually dispatched within 3 to 5 business days.
Multi-Locomotion Robotic Systems

New Concepts of Bio-inspired Robotics

Nowadays, multiple attention have been paid on a robot working in the human living environment, such as in the field of medical, welfare, entertainment and so on. Various types of researches are being conducted actively in a variety of fields such as artificial intelligence, cognitive engineering, sensor-technology, interfaces and motion control. In the future, it is expected to realize super high functional human-like robot by integrating technologies in various fields including these types of researches. The book represents new developments and advances in the field of bio-inspired robotics research introducing the state of the art, the idea of multi-locomotion robotic system to implement the diversity of animal motion. It covers theoretical and computational aspects of Passive Dynamic Autonomous Control (PDAC), robot motion control, multi legged walking and climbing as well as brachiation focusing concrete robot systems, components and applications. In addition, gorilla type robot systems are [...]

Features

Nowadays, multiple attention have been paid on a robot working in the human living environment, such as in the field of medical, welfare, entertainment and so on. Various types of researches are being conducted actively in a variety of fields such as artificial intelligence, cognitive engineering, sensor-technology, interfaces and motion control. In the future, it is expected to realize super high functional [...]

Fields of interest

Robotics and Automation; Artificial Intelligence (incl. Robotics); Control

Target groups

Research

Type of publication

Monograph

Usually dispatched within 3 to 5 business days.


94,95 €
ISBN 978-3-642-30134-6

Multiple Fuzzy Classification Systems

Fuzzy classifiers are important tools in exploratory data analysis, which is a vital set of methods used in various engineering, scientific and business applications. Fuzzy classifiers use fuzzy rules and do not require assumptions common to statistical classification. Rough set theory is useful when data sets are incomplete. It defines a formal approximation of crisp sets by providing the lower and the upper approximation of the original set. Systems based on rough sets have natural ability to work on such data and incomplete vectors do not have to be preprocessed before classification. To achieve better performance than existing machine learning systems, fuzzy classifiers and rough sets can be combined in ensembles. Such ensembles consist of a finite set of learning models, usually weak learners. The present book discusses the three aforementioned fields – fuzzy systems, rough sets and ensemble techniques. As the trained ensemble should represent a single hypothesis, a lot of attention is placed on the [...] Features

Fuzzy classifiers are important tools in exploratory data analysis, which is a vital set of methods used in various engineering, scientific and business applications. Fuzzy classifiers use fuzzy rules and do not require assumptions common to statistical classification. Rough set theory is useful when data sets are incomplete. It defines a formal approximation of crisp sets by providing the lower and the upper [...] Contents


Fields of interest

Computational Intelligence; Pattern Recognition; Simulation and Modeling

Target groups

Research

Type of publication

Monograph

Usually dispatched within 3 to 5 business days.


99,95 €
ISBN 978-3-642-30603-7

Photovoltaik

Wie Sonne zu Strom wird


Features


Contents


Fields of interest

Renewable and Green Energy; Energy Technology; Popular Science in Mathematics / Natural Science / Technology; Renewable and Green Energy

Target groups

Popular/general

Type of publication

Popular science

Usually dispatched within 3 to 5 business days.

2012, VIII, 129 S. 57 Abb., 10 in Farbe. (Technik im Fokus, Vol. 2) Softcover

15,84 €
ISBN 978-3-642-24296-0
Production Systems and Supply Chain Management in Emerging Countries: Best Practices

Selected papers from the International Conference on Production Research (ICPR)
The book presents several highly selected cases in emerging countries where the production-logistics systems have been optimized or improved with the support of mathematical models. The book contains a selection of papers from the 5th International Conference on Production Research (ICPR) Americas 2010 held on July 21-23 in Bogotá, Colombia. The main topic of the conference was “Technologies in Logistics and Manufacturing for Small and Medium Enterprises” which is perfectly aligned with the realities of emerging countries. The book presents methodologies and case studies related to a wide variety of production/logistics systems such as diary production, auto parts, steel and iron production, and financial services. It is focused but not limited to Small/Medium Enterprises.

Features
The book presents several highly selected cases in emerging countries where the production-logistics systems have been optimized or improved with the support of mathematical models. The book contains a selection of papers from the 5th International Conference on Production Research (ICPR) Americas 2010 held on July 21-23 in Bogotá, Colombia. The main topic of the conference was “Technologies in Logistics and [...]”

Contents
Operation Management.- Logistics Planning.- Production Planning and Scheduling.- Case Study in SME’s.

Fields of interest
Engineering Economics, Organization, Logistics, Marketing, Production / Logistics, Computer-Aided Engineering (CAD, CAE) and Design

Target groups
Research

Type of publication
Proceedings

Usually dispatched within 3 to 5 business days.

2012. VIII, 284 p. 100 illus., 23 in color. Hardcover
129.95 €
ISBN 978-3-642-26003-2

C. Kohl, Technical University Berlin, Germany
Quantifying Quality Aspects of Multimodal Interactive Systems

This book systematically addresses the quantification of quality aspects of multimodal interactive systems. The conceptual structure is based on a schematic view on human-computer interaction where the user interacts with the system and perceives it via input and output interfaces. Thus, aspects of multimodal interaction are analyzed first, followed by a discussion of the evaluation of output and input and concluding with a view on the evaluation of a complete system.

Features
This book systematically addresses the quantification of quality aspects of multimodal interactive systems. The conceptual structure is based on a schematic view on human-computer interaction where the user interacts with the system and perceives it via input and output interfaces. Thus, aspects of multimodal interaction are analyzed first, followed by a discussion of the evaluation of output and input and [...]”

Contents

Fields of interest
Signal, Image and Speech Processing; User Interfaces and Human Computer Interaction

Target groups
Research

Type of publication
Monograph

Usually dispatched within 3 to 5 business days.

2012. XVI, 185 p. 37 illus. (T-Labs Series in Telecommunication Services) Hardcover
99.95 €
ISBN 978-3-642-29601-7

I. Bostan, Technical University of Moldova, Chişinău, Republic of Moldova; A. Gheorghe, Old Dominion University, Norfolk, VA, USA; V. Dulgheru, Technical University of Moldova, Chişinău, Republic of Moldova; I. Sobó, Technical University of Moldova, Chişinău, Republic of Moldova; V. Bostan, Technical University of Moldova, Chişinău, Moldova; A. Sochirean, Technical University of Moldova, Chişinău, Republic of Moldova
Resilient Energy Systems
Renewables: Wind, Solar, Hydro

Renewable energy systems are playing an important role in the current discourse on energy security and sustainability. Scientific, engineering and economic solutions are adopted, and their is a constant effort to understand mechanisms and options to allow a faster penetration of renewable systems in the current energy mix and energy market. Readers of this book will have access to information, engineering design and economic solutions for harvesting local and regional energy potential by means of solar, wind, hydro resources. It will enable graduate students, researchers, promoters of sustainable energy technologies, consulting engineering experts, knowledgeable public to understand the solutions, methods, techniques suitable for different phases of design and implementation of a large selection of renewable energy technologies, and to identify their sustainability in application and policy.

Features
Renewable energy systems are playing an important role in the current discourse on energy security and sustainability. Scientific, engineering and economic solutions are adopted, and there is a constant effort to understand mechanisms and options to allow a faster penetration of renewable systems in the current energy mix and energy market. Readers of this book will have access to information. [...]”

Contents

Fields of interest
Energy Technology; Renewable and Green Energy; Energy Technology; Energy Policy, Economics and Management

Target groups
Research

Type of publication
Monograph

Usually dispatched within 3 to 5 business days.

129.95 €
ISBN 978-94-007-4188-1
Riveted Lap Joints in Aircraft Fuselage

Design, Analysis and Properties

Fatigue of the pressurized fuselages of transport aircraft is a significant problem all builders and users of aircraft have to cope with for reasons associated with assuring a sufficient lifetime and safety, and formulating adequate inspection procedures. These aspects are all addressed in various formal protocols for creating and maintaining airworthiness, including damage tolerance considerations. In most transport aircraft, fatigue occurs in lap joints, sometimes leading to circumstances that threaten safety in critical ways. The problem of fatigue of lap joints has been considerably enlarged by the goal of extending aircraft lifetimes. Fatigue of riveted lap joints between aluminium alloy sheets, typical of the pressurized aircraft fuselage, is the major topic of the present book. The richly illustrated and well-structured chapters treat subjects such as: structural design solutions and loading conditions for fuselage skin joints; relevance of laboratory test results for simple lap[...]

Features
Fatigue of the pressurized fuselages of transport aircraft is a significant problem all builders and users of aircraft have to cope with for reasons associated with assuring a sufficient lifetime and safety, and formulating adequate inspection procedures. These aspects are all addressed in various formal protocols for creating and maintaining airworthiness, including damage tolerance considerations. In most [...]

Contents

Fields of interest
Aerospace Technology and Astronautics; Industrial and Production Engineering; Mechanics

Robot Mechanisms

This book provides a comprehensive introduction to the area of robot mechanisms, primarily considering industrial manipulators and humanoid arms. The book is intended for both teaching and self-study. Emphasis is given to the fundamentals of kinematic analysis and the design of robot mechanisms. The coverage of topics is not typical. The focus is on robot kinematics. The book creates a balance between theoretical and practical aspects in the development and application of robot mechanisms, and includes the latest achievements and trends in robot science and technology.

Features
This book provides a comprehensive introduction to the area of robot mechanisms, primarily considering industrial manipulators and humanoid arms. The book is intended for both teaching and self-study. Emphasis is given to the fundamentals of kinematic analysis and the design of robot mechanisms. The coverage of topics is not typical. The focus is on robot kinematics. The book creates a balance between [...]
Scalable Parallel Programming Applied to H.264/AVC Decoding

Existing software applications should be redesigned if programmers want to benefit from the performance offered by multi- and many-core architectures. Performance scalability now depends on the possibility of finding and exploiting enough Thread-Level Parallelism (TLP) in applications for using the increasing numbers of cores on a chip. Video decoding is an example of an application domain with increasing computational requirements every new generation. This is due, on the one hand, to the trend towards high quality video systems (high definition and frame rate, 3D displays, etc.) that results in a continuous increase in the amount of data that has to be processed in real-time. On the other hand, there is the requirement to maintain high compression efficiency which is only possible with video codes like H.264/AVC that use advanced coding techniques. In this book, the parallelization of H.264/AVC decoding is presented as a case study of parallel programming. H.264/AVC decoding is an example of a parallel application.

Features

None

Contents


Fields of interest

Signal, Image and Speech Processing; Programming Techniques

Target groups

Professional/practitioner

Type of publication

Brief

Usually dispatched within 3 to 5 business days.
Spanlose Fertigung Stanzen
Integrierte Fertigung komplexer Präzisions-Stanzteile


Features
Stochastic Averaging and Stochastic Extremum Seeking

Stochastic Averaging and Extremum Seeking treats methods inspired by attempts to understand the seemingly non-mathematical question of bacterial chemotaxis and their application in other environments. The text presents significant generalizations on existing stochastic averaging theory developed from scratch and necessitated by the need to avoid violation of previous theoretical assumptions by algorithms which are otherwise effective in treating these systems. Coverage is given to four main topics. Stochastic averaging theorems are developed for the analysis of continuous-time nonlinear systems with random forcing, removing prior restrictions on nonlinearity growth and on the finiteness of the time interval. The new stochastic averaging theorems are usable not only as approximation tools but also for providing stability guarantees. Stochastic extremum-seeking algorithms are introduced for optimization of systems without available models. Both gradient- and Newton-based algorithms are presented.[...]

Features
Stochastic Averaging and Stochastic Extremum Seeking develops methods of mathematical analysis inspired by the interest in reverse engineering and analysis of bacterial convergence by chemotaxis and to apply similar stochastic optimization techniques in other environments. The first half of the text presents significant advances in stochastic averaging theory, necessitated by the fact [...] Contents
Control; Calculus of Variations and Optimal Control; Optimization; Game Theory / Mathematical Methods; Systems Biology; Robotics and Automation; Systems Theory, Control Target groups
Research Type of publication
Monograph Usually dispatched within 3 to 5 business days.

2012. XII, 224 p. 45 illus., 32 in color. (Communications and Control Engineering) Hardcover


Technische Mechanik - Engineering Mechanics

Zweisprachiges Lehrbuch zu Grundlagen der Mechanik fester Körper - Bilingual textbook on the Fundamentals of Solid Mechanics


Features
Dieses Buch hilft in einem der wichtigsten Grundlagenfächer der Ingenieurwissenschaften in- und ausländischen Studierenden, sich möglichst früh an Fachbegriffe und Formulierungen in Deutsch und Englisch zu gewöhnen. Der den ausführlichen Formeltext in Verbindung mit vielen Abbildungen erläuternde zweisprachige Begleittext bietet mehr als ein Fachlexikon, weil die Begriffe im Rahmen ihrer Anwendung erklärt [...] Contents

Fields of interest
Theoretical and Applied Mechanics Target groups
Upper undergraduate Type of publication
German textbook Online orders shipping within 2-3 days.

2012. VII, 264 S. 115 Abb. Softcover

27,99 € ISBN 978-3-8348-1719-8
Technische Mechanik
Festigkeitslehre


Features
Dieses Lehrbuch gibt eine anschauliche Einführung in die Festigkeitslehre, wobei sich theoretische Grundlagen und praxisrelevante Beispiele abwechseln. Die vollständig durchgerechneten Beispiele dienen der Illustration und fördern das Verständnis für die Theorie. Dieses didaktische Konzept ermöglicht, sich selbständig erfolgreich in den Stoff einzuarbeiten. Die aktuelle Auflage beinhaltet jetzt eine [...] 

Contents

Fields of interest
Theoretical and Applied Mechanics

Target groups
Upper undergraduate

Type of publication
German textbook

Online orders shipping within 2-3 days.

2012. XVI, 387 S. 244 Abb. Mit 108 Aufg. u. 135 Bsp. mit Lösungen. Softcover

27,99 €
ISBN 978-3-8348-0970-4

Technology-Enhanced Systems and Tools for Collaborative Learning Scaffolding

Technology-Enhanced Systems and Tools for Collaborative Learning Scaffolding is a major research theme in CSCL and CSCW research community. This book presents up-to-date research approaches for developing technology-enhanced systems and tools to support functional online collaborative learning and work settings.

It comprises a variety of research topics that span from the study of frameworks and infrastructures that foster collaborative learning and work through the application of different methods (distributed e-learning repositories, content creation and customization, social networks, collaborative ontologies building, and educational games) to the use of personalization and adaptation techniques to support the development of more powerful e-collaboration settings, including methodologies and tools for analyzing students’ interactions with the aim to increase students’ collaborative behaviors, performance and group organization. Researchers will find in this book the latest trends in these [...] 

Features
Technology-Enhanced Systems and Tools for Collaborative Learning Scaffolding is a major research theme in CSCL and CSCW research community. This book presents up-to-date research approaches for developing technology-enhanced systems and tools to support functional online collaborative learning and work settings.

It comprises a variety of research topics that span from the study of frameworks and [...] 

Contents
User-centred evaluation and organisational acceptability of a distributed repository to support communities of learners.- Facebook as a Collaborative Platform in Higher Education: the Case Study of the Universität Oberta de Catalunya.- Development and Implementation of an Enterprise Learning Architecture for Collaborative Learning.- A rational framework for student interactions with collaborative educational systems.- Interaction analysis as a tool for supporting collaboration. An overview.- CLFP intrinsic constraints-based group management of blended learning situations.- A pedagogical [...] 

Fields of interest
Computational Intelligence; Artificial Intelligence (incl. Robotics)

Target groups
Research

Type of publication
Monograph

Usually dispatched within 3 to 5 business days.

2011. XVI, 312 p. 83 illus. (Studies in Computational Intelligence, Vol. 350) Hardcover

129,95 €
ISBN 978-3-642-19813-7

Tragedy and Triumph in Orbit

The Eighties and Early Nineties

April 12, 2011 is the 50th anniversary of Yuri Gagarin’s pioneering journey into space. To commemorate this momentous achievement, Springer-Praxis is producing a mini series of books that reveals how humanity’s knowledge of flying, working, and living in space has grown in the last half century. “Tragedy and Triumph” focuses on the 1980s and early 1990s, a time when relations between the United States and the Soviet Union swung like a pendulum between harmony and outright hostility. The glorious achievements of the shuttle were violently arrested by the devastating loss of Challenger in 1986, while the Soviet program appeared to prosper with the last Salyut and the next-generation Mir orbital station. This book explores the continued rivalry between the two superpowers during this period, with each attempting to outdo the other – the Americans keen to build a space station, the Soviets keen to build a space shuttle – and places their efforts in the context of a bitterly divisive decade, which [...] 

Features
April 12, 2011, was the 50th anniversary of Yuri Gagarin’s pioneering journey into space. To commemorate this momentous achievement, Springer-Praxis is producing a mini series of books that reveals how humanity’s knowledge of flying, working, and living in space has grown in the last half century. “Tragedy and Triumph in Orbit”, the fourth book in the series, explores the tumultuous events of the [...] 

Contents
Illustrations.- Author’s Preface.- Acknowledgements.- Chapter 1: “We deliver”.- Chapter 2: A final Soviet salute.- Chapter 3: An age of innocence.- Chapter 4: Road to Peace.- Chapter 5: New beginnings.- Bibliography.- Index.

Fields of interest
Aerospace Technology and Astronautics; Popular Science in Astronomy; Extraterrestrial Physics, Space Sciences

Target groups
Popular/general

Type of publication
Popular science

Usually dispatched within 3 to 5 business days.

2012. XVII, 614 p. 69 illus., 54 in color. (Space Exploration) Softcover

44,95 €
ISBN 978-1-4614-3429-0
Transportvorgänge in der Verfahrenstechnik

Grundlagen und apparative Umsetzungen


Features
Transportvorgänge spielen eine übertragende Rolle in verfahrenstechnischen Prozessen, die in unterschiedlichen Industriezweigen – speziell in der chemischen, pharmazeutischen und der Lebensmittelindustrie sowie in der Biotechnologie – die Basis der Produktherstellung bilden. Das fundamentale Verständnis von Transportvorgängen ist eine unverzichtbare Voraussetzung für diejenigen, die diese in der technischen [...]

Contents

Fields of interest
Engineering Thermodynamics, Heat and Mass Transfer, Industrial Chemistry / Chemical Engineering, Manufacturing, Machines, Tools

Target groups
Professional/practitioner

Type of publication
Professional book

Unsaturated Soils: Research and Applications

Volume 1

These volumes contain the contributions to the Second European Conference on Unsaturated Soils, E-UNSAT 2012, held in Napoli, Italy, in June 2012. The event is the second of a series of European conferences, and follows the first successful one, organised in Durham, UK, in 2008. The conference series is supported by Technical Committee 106 of the International Society of Soil Mechanics and Geotechnical Engineering on Unsaturated Soils. The published contributions were selected after a careful peer-review process. A collection of more than one hundred papers is included, addressing the three thematic areas experimental, including advances in testing techniques and soil behaviour, modelling, covering theoretical and constitutive issues together with numerical and physical modelling, and engineering, focusing on approaches, case histories and geo-environmental themes. The areas of application of the papers embrace most of the geotechnical problems related to unsaturated soils. Increasing interest in[...]

Features
These volumes contain the contributions to the Second European Conference on Unsaturated Soils, E-UNSAT 2012, held in Napoli, Italy, in June 2012. The event is the second of a series of European conferences, and follows the first successful one, organised in Durham, UK, in 2008. The conference series is supported by Technical Committee 106 of the International Society of Soil Mechanics and Geotechnical [...]
Environmental Issues in Supply Chain Management

New Trends and Applications

The aim of the book is to present the emerging environmental issues in organization and management of complex supply chains. The book includes set of solutions which show different stakeholders’ viewpoints on sustainability. The scope of book takes into consideration how the emerging environmental regulation might be transformed into business practices. Therefore, the authors present the innovative approach to eco-friendly organization and coordination of logistics processes and supply chain configuration. A broad scope of practical solutions from different countries and industries is provided.

Features

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Contents

Environmental and Non-Traditional Security (NTS) in Asia

Traditional notions of security are premised on the primacy of state security. In relation to energy security, traditional policy thinking has focused on ensuring supply without much emphasis on socioeconomic and environmental impacts. Non-traditional security (NTS) scholars argue that threats to human security have become increasingly prominent since the end of the Cold War, and that it is thus critical to adopt a holistic and multidisciplinary approach in addressing rising energy needs. This volume represents the perspectives of scholars from across Asia, looking at diverse aspects of energy security through a non-traditional security lens. The issues covered include environmental and socioeconomic impacts, the role of the market, the role of civil society, energy sustainability and policy trends in the ASEAN region.

Features

Traditional notions of security are premised on the primacy of state security. In relation to energy security, traditional policy thinking has focused on ensuring supply without much emphasis on socioeconomic and environmental impacts. Non-traditional security (NTS) scholars argue that threats to human security have become increasingly prominent since the end of the Cold War, and that it is thus critical to adopt a holistic and multidisciplinary approach in addressing rising energy needs. This volume represents the perspectives of scholars from across Asia, looking at diverse aspects of energy security through a non-traditional security lens. The issues covered include environmental and socioeconomic impacts, the role of the market, the role of civil society, energy sustainability and policy trends in the ASEAN region.

Contents


Fields of interest

Environmental Law / Policy / Ecotoxicology; Energy Policy, Economics and Management; Economic Geology; Earth System Sciences

Target groups

Research

Type of publication

Brief

Usually dispatched within 3 to 5 business days.

Human Pharmaceuticals in the Environment

Current and Future Perspectives

Human interaction with the environment remains one of the most pervasive facets of modern society. In a world characterized by rapid population growth, unprecedented global trade and digital communications, energy security, natural resource scarcities, climatic changes and environmental quality, emerging diseases and public health, biodiversity and habitat modifications are routinely touted by the popular press as they canvas global political agendas and scholarly endeavors.

Features

Fish on Prozac. Drugs found in drinking water. India’s drug problem. Chances are you’ve seen these headlines. Human pharmaceuticals represent environmental contaminants of emerging concern, and receive unprecedented attention from the scientific, regulatory and public sectors. This timely contribution, prepared by international experts in the field, synthesizes and critically examines topics ranging from [...]

Contents

Information Technologies for Remote Monitoring of the Environment

The key novelty of this book is first of all in the successful attempt to conduct jointly modeling of environment in terms of physical environment related parameters and measuring similar parameters by means of multispectral remote sensing, primarily by means of passive microwave remote sensing technology. Another new step is in the development and utilization of a multilevel approach which includes remote sensing of the land and water parameters like soil moisture, depth to water table, biomass of vegetation, temperature and salinity of water, in situ measurements of similar parameters and incorporation of GIS and data sets into the models of typical environments. The part of book, which contains remote sensing is focused on multipurpose observations from aircraft obtained in many soil-climatic zones in different countries and is reach of the examples of practical application. Applied mathematicians, geophysicists, hydrologists, socio-economists, statesmen and other researchers of environmental [...]?

Contents

Fields of interest
Monitoring / Environmental Analysis; Remote Sensing / Photogrammetry; Ecology; Geographical Information Systems / Cartography; Energy (general)

Target groups
Research

Type of publication
Monograph

Usually dispatched within 3 to 5 business days.

2012. XXXIV, 498 p. 90 illus., 35 in color. (Springer Praxis Books) Hardcover

129.95 €
ISBN 978-3-642-20566-8

K. Aleklett, Uppsala University, Sweden

Peeking at Peak Oil

The term “Peak Oil” was born in January 2001 when Colin Campbell formed the Association for the Study of Peak Oil & Gas (ASPO). Now, Peak Oil is used thousands of times a day by journalists, politicians, industry leaders, economists, scientists and countless others around the globe. Peak Oil is not the end of oil but it tells us the end is in sight. Anyone interested in food production, economic growth, climate change or global security needs to understand this new reality. In Peeking at Peak Oil, Professor Kjell Aleklett, President of ASPO International and head of the world’s leading research group on Peak Oil, describes the decade-long journey of Peak Oil from extremist fringe theory to today’s accepted fact: Global oil production is entering terminal decline. He explains everything you need to know about Peak Oil and its world-changing consequences from an insider’s perspective. In simple steps, Kjell tells us how oil is formed, discovered and produced. He uses science to reveal the errors and [...]?

Features

Contents

Rethinking Energy Security in Asia: A Non-Traditional View of Human Security

Traditional notions of security are premised on the primacy of state security. In relation to energy security, traditional policy thinking has focused on ensuring supply without much emphasis on socioeconomic and environmental impacts. Non-traditional security (NTS) scholars argue that threats to human security have become increasingly prominent since the end of the Cold War, and that it is thus critical to adopt a holistic and multidisciplinary approach in addressing rising energy needs. This volume represents the perspectives of scholars from across Asia, looking at diverse aspects of energy security through a non-traditional security lens. The issues covered include environmental and socioeconomic impacts, the role of the market, the role of civil society, energy sustainability and policy trends in the ASEAN region.

Features
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Contents

Fields of interest
Environmental Law / Policy / Ecojustice; Energy Policy, Economics and Management, Economic Geology; Earth System Sciences

Target groups
Research

Type of publication
Monograph

Usually dispatched within 3 to 5 business days.

2012. IX, 103 p. 6 illus. in color. (SpringerBriefs in Environment, Security, Development and Peace) Softcover

49.95 €
ISBN 978-3-642-29702-1
The Llobregat: The Story of a Polluted Mediterranean River

The Llobregat belongs to the most thoroughly studied rivers in Europe and is a paradigm of the confluence of human and natural disturbances in a single basin. Because of its location in a very densely populated region and its Mediterranean character, the Llobregat supports a mixture of irregular flow, water abstraction, excess nutrients, mining debris, and a wide array of pollutants. The aquatic organisms strive to survive in a dramatically changing river that passes through a succession of dams, weirs and channels. The long-term river monitoring as well as the research that has been carried out in the river for a long time have provided an extensive knowledge of these disturbances and their effects on the biological communities. This book highlights the available information, with emphasis on the hydrological, chemical and biological elements interspersed in the river. Experts in the field discuss the main nutrient patterns and pollutant occurrence and the responses of the biological quality.

Features
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Contents

Field of interest
Environmental Chemistry; Waste Water Technology / Water Pollution Control / Water Management / Aquatic Pollution; Marine & Freshwater Sciences; Freshwater & Marine Ecology; Geochemistry; Analytical Chemistry

Target groups
Research

Type of publication
Reviews

 Usually dispatched within 3 to 5 business days.

The Mekong Delta System: Interdisciplinary Analyses of a River Delta

This book about the Mekong Delta presents a unique collection of state-of-the-art contributions by international experts from different scientific disciplines about the characteristics and pressing water-related challenges of the Mekong Delta in Vietnam. The Mekong Delta belongs to one of the areas, which are to expect the largest challenges concerning environmental change and climate change induced sea level rise. The Delta acts as the "rice bowl" of Southeast Asia and is home to over 17 Million people, who need to cope with ecologic as well as socio-economic changes linked to the rapid economic development of the country: Annual floods, severe droughts, salt water intrusion, degrading water quality, tropical cyclones, hydrologic changes due to hydropower projects in the upstream of the Mekong, coastal erosion, and the loss of biodiversity are some of the problems in the region. Heterogeneous resource management responsibilities, and the fact that the Mekong – and thus also the Delta – is...

Features
This book about the Mekong Delta presents a unique collection of state-of-the-art contributions by international experts from different scientific disciplines about the characteristics and pressing water-related challenges of the Mekong Delta in Vietnam. The Mekong Delta belongs to one of the areas, which are to expect the largest challenges concerning environmental change and climate change induced sea.

Contents

Fields of interest
History, Artistry, and Cartography

usually dispatched within 3 to 5 business days.

Star Maps: History, Artistry, and Cartography

Until the publication of the first edition of 'Star Maps', books were either general histories of astronomy using examples of antiquarian celestial maps as illustrations, or catalogs of celestial atlases that failed to trace the flow of sky map development over time. The second edition focuses on the development of contemporary views of the heavens and advances in map-making. It captures the beauty and awe of the heavens through images from antiquarian celestial prints and star atlases. This book uniquely combines a number of features: 1) the history of celestial cartography is traced from ancient to modern times; 2) this development is integrated with contemporary cosmological systems; 3) the artistry of sky maps is shown using beautiful color images from actual celestial atlases and prints; 4) each illustration is accompanied by a legend explaining what is being shown; and 5) the text is written for the lay reader based on the author's experience with writing articles for amateur astronomy and maps.

Features
Star Maps captures the beauty and awe of the heavens through celestial prints and star atlases. It traces the history of celestial cartography and relates this history to the changing ideas of humanity's place in the universe. The text of this Second Edition is enriched with 263 photographs, 91 in color, showing images from actual antiquarian celestial books and atlases, each one with an explanation.

Contents

Fields of interest
History of Science; Popular Science in Astronomy; Geographical Information Systems / Cartography

usually dispatched within 3 to 5 business days.
Urban Growth Analysis and Remote Sensing
A Case Study of Kolkata, India 1980–2010

This book documents research conducted on the analysis of urban growth and sprawl by using remote sensing data and GIS techniques. The research was conducted between 1980-2010 in the city of Kolkata, India. The aim of the research was to use metrics that were less demanding in terms of data and computation than normal metrics. However, it has been found that most of them were inferior in capturing insights of urban sprawl. For this book, some of these metrics have therefore been modified and new ones are proposed. The research focuses on problems associated with the analysis of urban growth by using remote sensing data from a technological perspective.

Features
This book documents research conducted on the analysis of urban growth and sprawl by using remote sensing data and GIS techniques. The research was conducted between 1980-2010 in the city of Kolkata, India. The aim of the research was to use metrics that were less demanding in terms of data and computation than normal metrics. However, it has been found that most of them were inferior in capturing insights.

Contents
A.M. Louw, University of KwaZulu-Natal, Durban, South Africa

Ambush Marketing & the Mega-Event Monopoly
How Laws are Abused to Protect Commercial Rights to Major Sporting Events

This book undertakes a critical examination of commercial rights to sports mega-events (focusing on sponsorship), the exclusivity of such rights and the legal implications of the modern mega-event sponsorship model. It examines ambush marketing of events and the law's treatment of ambush (specifically in the form of sui generis event legislation) in a review of 10 major jurisdictions selected on the basis of the importance of the events they are to host in the near future or have hosted recently, and the relevant domestic legislation. It critically examines the legitimacy of such commercial rights protection by means of the use of laws in the context of accepted principles of intellectual property law, competition law and human rights law. Specifically, it questions the legitimacy of the creation of statutory 'association rights' to mega-events, and considers potential future developments in respect of the law's treatment of mega-event commercialisation. "Valuable for practitioners and academics."[...]

Contents

Fields of interest
Law (general); Commercial Law

Target groups
Research

Type of publication
Monograph

Usually dispatched within 3 to 5 business days.

199,95 €

F. Wille, Karlsruher Dr. Wille, Mann

Aussage gegen Aussage in sexuellen Missbrauchsverfahren
Defizitäre Angeklagterechte in Deutschland und Österreich und deren Korrekturmöglichkeiten


Contents

Fields of interest
Economics (general); Law; Civil Law; Commercial Law; Business & Economics (general)

Target groups
Research

Type of publication
Monograph

Usually dispatched within 3 to 5 business days.

2012, 156 p. 1 Illus. in color Hardcover
169,95 €
ISBN 978-3-642-27852-5

C. Chun, Korea Capital Market Institute, Seoul, Korea

Cross-border Transactions of Intermediated Securities
A Comparative Analysis in Substantive Law and Private International Law

This work aims to analyse substantive and conflict of laws rules regarding intermediated securities in a comparative way. For this purpose, it examines major jurisdictions’ rules for intermediated securities and the intermediated securities holding systems, such as the rules of the German, US, Korean, Japanese and Swiss systems, as well as the relevant EU regimes and initiatives. Above all, it analyses the two international instruments related to intermediated securities, i.e. the Geneva Securities Convention and the Hague Securities Convention. Through a functional comparative approach based upon legal traditions of the various jurisdictions, this book gives readers theoretical and practical information on intermediated securities and their national and international aspects.

Features
This work aims to analyse substantive and conflict of laws rules regarding intermediated securities in a comparative way. For this purpose, it examines major jurisdictions’ rules for intermediated securities and the intermediated securities holding systems, such as the rules of the German, US, Korean, Japanese and Swiss systems, as well as the relevant EU regimes and initiatives. Above all, it analyses the two international instruments related to intermediated securities, i.e. the Geneva Securities Convention and the Hague Securities Convention.

Target groups
Research

Type of publication
Monograph

Usually dispatched within 3 to 5 business days.

2012, XIX, 230 S. 1 Abb. Hardcover
93,41 €
ISBN 978-3-642-27421-3
Electronic Technology and Civil Procedure

New Paths to Justice from Around the World

The effect of modern and communication technology on civil procedure first appeared on the agenda of the conference organized by the International Association of Procedural Law in 1999, verifying Lord Woolf’s statement from the 90’s, that ‘IT will not only assist in streamlining and improving our existing systems and process; it is also likely, in due course, itself to be catalyst for radical change as well...’. At the conference in Pécs in the autumn of 2010 participants from three continents and twenty-five countries examined all aspects of the impact of modern information technology on civil procedure beginning with the electronic submission of the application, ranging from electronic service of documents and electronic means of proof supported by modern information technology. In addition to the practical issues they discussed the possible impact of electronic procedures on traditional principles of civil procedure. The conference book contains seven main reports and eleven correferates, the[...]

Features
This book contains the seven main reports and eleven correferates of the 2010 International Association of Procedural Law Conference in Pécs. During this conference, participants from around the world examined all aspects of the impact of modern information technology on civil procedure, ranging from the electronic submission of the application to electronic service of documents and electronic means of[...]
Handbuch Föderalismus - Föderalismus als demokratische Rechtsordnung und Rechtsekultur in Deutschland, Europa und der Welt

Band III: Entstehungsbereiche des Föderalismus

Das föderale Prinzip hat die Bundesrepublik Deutschland entscheidend geprägt – von der Nachkriegszeit bis in das 21. Jahrhundert. Theoretischer Anspruch und praktische Ausgestaltung, Wunsch und Wirklichkeit, waren und sind dabei nicht immer deckungsgleich. Band III entfaltet die große Bandbreite der Föderalismuswelt in Deutschland. Namhafte Experten zeigen problembereich orientiert Strukturen und Entwicklungen in einzelnen Politikfeldern auf, u.a.: • Kultur, Medien, Religion • Bildung und Erziehung • Innere Sicherheit, Katastrophenrecht, Datenschutz • Umweltschutz, Wasserwirtschaft, Raumanordnung • Sozialordnung • Landwirtschaft • Verbraucherrecht • Migration und Integration • Bürgergesellschaft und Engagementpolitik • Demografische Entwicklung • Erinnerungs- und Geschichtspolitik • Meinungsumfragen

Features

Legislative Delegation

The Erosion of Normative Limits in Modern Constitutionalism

An overarching question of contemporary constitutionalism is whether equilibriums devised prior to the emergence of the modern administrative-industrial state can be preserved or recreated by means of fundamental law. The book approaches this problem indirectly, through the conceptual lens offered by constitutional developments relating to the adoption of normative limitations on the delegation of law-making authority. Three analytical strands (constitutional theory, constitutional history, and contemporary constitutional and administrative law) run through the argument. They merge into a broader account of the conceptual ramifications, the phenomenon, and the constitutional treatment of delegation in a number of paradigmatic legal systems. As it is argued, the development and failure of constitutional rules imposing limits on legislative delegation reveal the conditions for the possibility of classical limited government and, conversely, the erosion of normativity in contemporary constitutionalism.

Contents

Fields of interest
Constitutional Law; Political Science, general; Theories of Law, Philosophy of Law; Legal History; Private International Law, International & Foreign Law, Comparative Law, Administrative Law.

Type of publication
Monograph

Usually dispatched within 3 to 5 business days.

2012. XI, 289 p. Hardcover

99,95 €
ISBN 978-3-642-22329-7

Netherlands Yearbook of International Law 2011

Agora: The Case of Iraq: International Law and Politics

The Netherlands Yearbook of International Law was first published in 1970. It has two main aims. It offers a forum for the publication of scholarly articles of a more general nature in the area of public international law including the law of the European Union. In addition, it aims to respond to the demand for information on state practice in the field of international law. Each Yearbook therefore includes documentation on Netherlands’ International Law practice.

Features
The Netherlands Yearbook of International Law (NYIL) was first published in 1970. It offers a forum for the publication of scholarly articles of a more general nature in the area of public international law including the law of the European Union. The main scholarly articles of this volume of the NYIL deal with the life and legacy of T.M.C. Asser and the legal aspects of the transfer of [...]

Contents

Fields of interest
Public International Law

Target groups
Research

Type of publication
Monograph

Usually dispatched within 3 to 5 business days.

2012. XVI, 245 p. 1 illus. (Netherlands Yearbook of International Law, Vol. 42) Hardcover

129,95 €

Self-sufficiency of Law

A Critical-institutional Theory of Social Order

The book investigates the role of law and legal experts in the organisational dynamics of a population, demonstrating that law is a stable practice among those who (in virtue of the special knowledge they master) are called upon to select the ‘normative facts’ of a population, i.e. the interactional standards that are proclaimed as binding for the entire population by the publicly recognised legal experts (whose peremptory judgments can be only revised by peers). It proposes an integration of the recent research outcomes achieved in three different areas of study: legal positivism, legal institutionalism and legal pluralism and examines the notions of rule, coercion, institution, practice elaborated by significant theorists in the mentioned areas and illumine both their merits and flaws. Furthermore it advances a notion of law and a description of the legal field which are able to account for the nature of the legal filed as the cradle of the social order. New back cover copy: In an era[...]

Contents

Fields of interest
Theories of Law, Philosophy of Law, Legal History; Philosophy of Law; Political Science, general; Fundamentals of Law; Anthropology

Target groups
Research

Type of publication
Monograph

Usually dispatched within 3 to 5 business days.


99,95 €
ISBN 978-94-007-4297-0
**Life Sciences**

A.K. Srivastava, National Research Centre for Citrus, Nagpur, India (Ed.)

**Advances in Citrus Nutrition**

This is a solitary attempt to streamline all the possible information related to citrus nutrition, with emphasis on diagnosis and management of nutrient constraints, employing a variety of state-of-the-art techniques evolved globally over the years. While doing so has been taken to include peripheral disciplines so that the discussion becomes more lively and authoritative. An entire array of exclusive subjects has been nicely portrayed with the help of latest data and photographs.

**Features**

Citrus nutrition has been the subject of worldwide research to not only soil scientists, but to researchers covering various other disciplines as well. Despite many breakthroughs in diagnosis and management of nutrient constraints, citrus nutritionists are still baffled by the complex processes associated with precise field diagnosis of different nutrient constraints. Hence, currently available diagnostic [...] contents.

**Contents**


**Fields of interest**

Plant Biochemistry; Soil Science & Conservation; Nutrition; Applied Microbiology; Geographical Information Systems / Cartography

**Target groups**

Research

**Type of publication**

Contributed volume

**Usually dispatched within 3 to 5 business days.**

2012. XIV, 477 p. 184 illus. Hardcover

169,95 €
ISBN 978-94-007-4170-6

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**Alice in the Land of Plants**

**Biography of Plants and Their Importance for Planet Earth**

Why is it that plants do not need to move? How does a nonmotile organism have sex or defend itself? Why are some plants virtually immortal? What is the mechanism that allows plants to exploit a practically inexhaustible extrarterrestrial energy source? How do plants regulate the composition of our planet’s atmosphere? Why have there not been mass extinctions among plants as there have been among animals? How do plants communicate with one another? In the end, are plants intelligent organisms? These are some of the questions the author discusses to demonstrate that plants are wrongly considered to be simple organisms lacking specific behaviour and intelligence. This book promises to be as pleasant a surprise as Alice’s experience in the white rabbit’s warren, in which she encountered a world very different from ours. The author explains the biology of plants following Einstein’s maxim that everything should be made as simple as possible, but not simpler.

**Features**

- Why is it that plants do not need to move?
- How does a nonmotile organism have sex or defend itself?
- Why are some plants virtually immortal?
- What is the mechanism that allows plants to exploit a practically inexhaustible extraterrestrial energy source?
- How do plants regulate the composition of our [...] contents.

**Contents**

Introduction: Plants are no less complex than animals – they are just different.- Basic plant organisation – how it differs from that of animals.- Why trees are almost immortal and other related issues.- Short evolutionary history of plants.- Sex in nonmotile organisms.- The world through the eyes of plants.- The defence of a stationary organism.- Symbiosis galore.- Deviations from the basic biological type.- A final word on plant intelligence. Epilogue: Tribute to Darwin.

**Fields of interest**

Plant Sciences; Popular Science in Nature and Environment

**Target groups**

Popular/general

**Type of publication**

Popular science

**Usually dispatched within 3 to 5 business days.**

2012. XVI, 372 p. 12 illus. Hardcover

39,95 €
ISBN 978-3-642-28337-6

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**Antiviral Resistance in Plants**

**Methods and Protocols**

Studies related to pathogen-mediated virus resistance in plants were instrumental in providing some of the historical observations which ultimately led to the vital discovery of double-stranded RNA (dsRNA)-induced gene silencing or RNA interference (RNAi), which has since revolutionized research on plant-virus interactions. In Antiviral Resistance in Plants: Methods and Protocols, expert researchers in the field detail many of the methods which are now commonly used to study the phenomenon of RNA silencing in relation to viral infections of plants. These include methods and techniques for the isolation and quantitative/qualitative analyses of plant small 21-24 nucleotide RNAs such as small interfering RNAs (siRNAs) and microRNAs (miRNAs) as well as the analysis and manipulation of virus-induced gene silencing (VIGS) in both monocotyledonous and dicotyledonous plants and the use of hairpin RNA (hpRNA) transgenes. Written in the highly successful Methods in Molecular Biology™ series format, chapters [...] contents.

**Features**

- Studies related to pathogen-mediated virus resistance in plants were instrumental in providing some of the historical observations which ultimately led to the vital discovery of double-stranded RNA (dsRNA)-induced gene silencing or RNA interference (RNAi), which has since revolutionized research on plant-virus interactions. In Antiviral Resistance in Plants: Methods and Protocols, expert researchers [...] contents.

**Contents**


**Fields of interest**

Plant Sciences; Plant Pathology; Virology

**Target groups**

Professional/practitioner

**Type of publication**

Contributed volume

**Usually dispatched within 3 to 5 business days.**


109,95 €
Arthropod Management in Vineyards:

Pests, Approaches, and Future Directions

Provides a state-of-the-science overview of arthropods affecting grape production around the world. Vineyard pest management is a dynamic and evolving field, and the contributed chapters provide insights into arthropods that limit this important crop and its products. Written by international experts from the major grape-growing regions, it provides a global overview of arthropods affecting vines and the novel strategies being used to prevent economic losses, including invasive pests affecting viticulture. The book contains reviews of the theoretical basis of integrated pest management, multiple chapters on biological control, current status of chemical control, as well as in-depth and well-illustrated reviews of the major arthropod pests affecting grape production and how they are being managed worldwide. This text will serve as a primary resource for applied entomologists, students, growers, and consultants with interests at the intersection of viticulture and applied entomology.

Features

In recent decades, viticulture has undergone a tremendous growth worldwide. Vineyard pest management is a dynamic and evolving field, and the contributed chapters in Arthropod Management in Vineyards: Pests, Approaches, and Future Directions provide insights on the management of insects and mites that limit this important crop and its products. It provides a state-of-the-science overview of [...]
Computational Modeling of Signaling Networks

Signaling networks are composed of numerous signaling pathways and each has its own intricate component parts. Signaling outputs are dynamic, extraordinarily complex and yet highly specific. In, Computational Modeling of Signaling Networks: Methods and Protocols, expert researchers in the field provide key techniques to study signaling networks. Focusing on Systems of ODEs, parameterization of signaling models, signaling pathways, mass-action kinetics and ODEs, and how to use modeling to plan experiments. Written in the highly successful Methods in Molecular Biology® series format, the chapters include the kind of detailed description and implementation advice that is crucial for getting optimal results in the laboratory. Thorough and intuitive, Computational Modeling of Signaling Networks: Methods and Protocols aids scientists in continuing study of how signaling networks behave in space and time to generate specific biological responses and how those responses impact biology and medicine.

Features

- Signaling networks are composed of numerous signaling pathways and each has its own intricate component parts. Signaling outputs are dynamic, extraordinarily complex and yet highly specific.
- In, Computational Modeling of Signaling Networks: Methods and Protocols, expert researchers in the field provide key techniques to study signaling networks.
- Focusing on Systems of ODEs, parameterization of signaling models, signaling pathways, mass-action kinetics and ODEs, and how to use modeling to plan experiments.
- Written in the highly successful Methods in Molecular Biology® series format, the chapters include the kind of detailed description and implementation advice that is crucial for getting optimal results in the laboratory.
- Thorough and intuitive, Computational Modeling of Signaling Networks: Methods and Protocols aids scientists in continuing study of how signaling networks behave in space and time to generate specific biological responses and how those responses impact biology and medicine.

Contents


Fields of interest

- Cell Biology

Target groups

- Professional/practitioner

Type of publication

- Contributed volume

Usually dispatched within 3 to 5 business days.

2012, XIV, 327 p. 75 illus., 10 in color. (Methods in Molecular Biology, Vol. 880) Hardcover

94,95 €
ISBN 978-1-61779-832-0

Die Parasiten des Menschen

Erfahrungen erkennen, bekämpfen und vorbeugen


Features

- Im Zuge der Globalisierung, bei der Container und Menschen von einem Kontinent zum anderen transportiert werden, landen täglich Erreger oder Krankheitsträger in Europa an und können sich schnell ausbreiten. Daher ist es notwendig, das Wissen um die Übertragungswege von Parasiten auf den Menschen stets aktuell zu halten und die Gefahren einer Einschleppung und Ausbreitung rechtzeitig […]

Contents

1 Das Phänomen Parasitismus.- 2 Welche Parasiten gibt es? - 2.1 Die Organe des Menschen und ihr Parasitenbefall.- 3 Einzeller beim Menschen.- 3.1 Was sind Einzeller (Protozoa/Protisten)?.- 3.2 Trichomonas vaginalis (Trichomoniasis).- 3.3 Flagellaten des Darms.- 3.4 Giardia lamblia (syn. G. duodenalis bzw. intestinalis; Giardiasis).- 3.5 Trypanosoma brucei-Gruppe (Afrikanische Trypanosomiasis).- 3.6 Südamerikanische Trypanosomiasen.- 3.7 Leishmania-Arten (Erreger der Haut-, Schleimhaut- und Amerikanischen Leishmaniasis).- 3.8 Leishmania donovani-Komplex (Viszerale Leishmaniasis).- 3.9 […]

Fields of interest

- Zoology; Parasitology; Infectious Diseases; Tropical Medicine

Target groups

- Upper undergraduate

Type of publication

- German textbook

Online orders shipping within 2-3 days.

2012, XII, 324 S. 193 Abb. in Farbe. Softcover

27,99 €

Edible Medicinal And Non-Medical Plants

Volume 4, Fruits

This book continues as volume 4 of a multi-compendium on Edible Medicinal and Non-Medical Plants. It covers edible fruits/seeds used fresh or processed, as vegetables, spices, stimulants, edible oils and beverages. It encompasses selected species from the following families: Fagaceae, Grossulariaceae, Hydropiperaceae, Myrsinaceae, Olacaceae, Olearia, Orchidaceae, Oxalidaceae, Pandanaceae, Passifloraceae, Pedaliaceae, Phyllanthaceae, Pinaceae, Piperaceae, Rosaceae and Rutaceae. This work will be of significant interest to scientists, researchers, medical practitioners, pharmacologists, ethnobotanists, horticulturists, food nutritionists, agriculturists, botanists, conservationists, lecturers, students and the general public. Topics covered include: taxonomy; common/English and vernacular names; origin and distribution; agroecology; edible plant parts and uses; botany; nutritive and pharmacological properties, medicinal uses and research findings; nonedible uses; and selected references.

Features

- This book continues as volume 4 of a multi-compendium on Edible Medicinal and Non-Medical Plants. It covers edible fruits/seeds used fresh, cooked or processed into other food products, or used as vegetables, spices, stimulants, edible oils and beverages. It encompasses Fagaceae, Grossulariaceae, Hydropiperaceae, Myrsinaceae, Olacaceae, Olearia, Orchidaceae, Oxalidaceae, Pandanaceae, […]

Contents


Fields of interest

- Plant Sciences; Agriculture; Biomedicine (general); Medicine (general); Biodiversity; Chemistry (general)

Target groups

- Research

Type of publication

- Monograph

Usually dispatched within 3 to 5 business days.

2012, XIII, 1022 p. 439 illus. in color. Hardcover

149,95 €
Environmental Stress and Amelioration in Livestock Production

Given the importance of livestock to the global economy, there is a substantial need for world-class reference material on the sustainable management of livestock in diverse eco-regions. With uncertain climates involving unpredictable extreme events (e.g., heat, drought, infectious disease), environmental stresses are becoming the most crucial factors affecting livestock productivity. By systematically and comprehensively addressing all aspects of environmental stresses and livestock productivity, this volume is a useful tool for understanding the various intricacies of stress physiology. With information and case studies collected and analyzed by professionals working in diversified ecological zones, this book explores the influence of the environment on livestock production across global biomes. The challenges the livestock industry faces in maintaining the delicate balance between animal welfare and production are also highlighted.

Features
Given the importance of livestock to the global economy, there is a substantial need for world-class reference material on the sustainable management of livestock in diverse eco-regions. With uncertain climates involving unpredictable extreme events (e.g., heat, drought, infectious disease), environmental stresses are becoming the most crucial factors affecting livestock productivity. By systematically and comprehensively addressing all aspects of environmental stresses and livestock productivity, this volume is a useful tool for understanding the various intricacies of stress physiology. With information and case studies collected and analyzed by professionals working in diversified ecological zones, this book explores the influence of the environment on livestock production across global biomes. The challenges the livestock industry faces in maintaining the delicate balance between animal welfare and production are also highlighted.

Contents
Introduction. - Factors influencing livestock productivity. - Heat stress impact on livestock production. - Walking stress influence on livestock production. - Environmental stresses and livestock reproduction. - Concept of multiple stresses and its significance on livestock productivity. - Ameliorative measures to counteract environmental stresses. - Nutritional manipulations to optimize productivity during environmental stresses in livestock. - Role of pineal gland in relieving environmental stress. - Basic principles involved in adaption of livestock to climate change. - Neuroendocrine[...]

Fields of interest
Animal Ecology; Animal Physiology

Target groups
Research

Type of publication
Contributed volume

Fungi Associated with Pandanaceae

The tropical plant family Pandanaceae comprises three genera, Freycinetia, Pandanus and Sararanga. One-hundred and fourteen genera and two species of fungi were found on dead leaves of Pandanaceae collected in Australia, Brunei Darussalam, Fiji, Hawaii, Hong Kong, Malaysia, Mauritius, Nepal, New Zealand, Niue, Philippines, Seychelles, Vanuatu and Vietnam. Taxonomic issues within each fungus genus are discussed and reference made to preceding work. All species are written up with bibliographic details, relevant measurements of the current specimens, known habitat and distribution, collection details, and discussion of taxonomic conclusions. [New taxa (4 genera, 35 species) are fully described and illustrated, each with a plate showing relevant macro- and microscopic details. Keys and/or synoptic tables are provided to all species in 28 genera. In addition, details on almost 700 species of fungi described and recorded worldwide from the Pandanaceae are listed.

Features
The tropical plant family Pandanaceae comprises three genera, Freycinetia, Pandanus and Sararanga. One-hundred and fourteen genera and 226 species of fungi were found on dead leaves of Pandanaceae collected in Australia, Brunei Darussalam, Fiji, Hawaii, Hong Kong, Malaysia, Mauritius, Nepal, New Zealand, Niue, Philippines, Seychelles, Vanuatu and Vietnam. Taxonomic issues[...]

Contents

Fields of interest
Biodiversity; Fungal Ecology; Microbiological Analysis; Microbial Ecology; Ecology

Target groups
Research

Type of publication
Monograph

Usually dispatched within 3 to 5 business days.
Genomics of Chloroplasts and Mitochondria

The past decade has witnessed an explosion of our knowledge on the structure, coding capacity and evolution of the genomes of the two DNA-containing cell organelles in plants: chloroplasts (plastids) and mitochondria. Comparative genomics analyses have provided new insights into the origin of organelles by endosymbioses and uncovered an enormous evolutionary dynamics of organellar genomes. In addition, they have greatly helped to clarify phylogenetic relationships, especially in algae and early land plants with limited morphological and anatomical diversity. This book, written by leading experts, summarizes our current knowledge about plastid and mitochondrial genomes in all major groups of algae and land plants. It also includes chapters on endosymbioses, plastid and mitochondrial mutants, gene expression profiling and methods for organelle transformation. The book is designed for students and researchers in plant molecular biology, taxonomy, biotechnology and evolutionary biology.

Contents

Features
- Issues In Agroecology approaches this complex panorama of interrelated topics by presenting authoritative, comprehensive, and analytical reviews by leading scientists in all areas of agroecology worldwide. Authors for each review are invited and represent a collaborative mix sufficient to provide strong summaries and scholarly advances that serve as foundations for discussion leading to novel routes[...]

Contents
Foreword.- Acknowledgements.- List of Contributors and Biosketches of Editors and Authors.- Future Visions for Experiential Education in the Agroecology Learning Landscape.- International Shifts in Agricultural Debates and Practice: An Historical View of Analyses of Global Agriculture.- Sustainability Standards and Their Implications for Agroecology.- Water Sustainability and Politics – Examples from Latin America and Implications for Agroecology.

Fields of interest
- Agriculture; Ecology; Environmental Management; Nature Conservation; Sustainable Development

Target groups
- Graduate

Type of publication
- Contributed volume

Usually dispatched within 3 to 5 business days.

2012. XXXIII, 475 p. 45 illus., 20 in color. (Advances in Photosynthesis and Respiration, Vol. 3) Hardcover

149.95 €
ISBN 978-94-007-4484-4

100 Life Sciences

Jak-Stat Signaling: From Basics to Disease

JAK tyrosine kinases and STAT transcription factors constitute a signaling pathway, which is activated by cytokines. By activating gene transcription it regulates essential biological responses to environmental cues. The Jak-Stat pathway is involved in the regulation of cell development, differentiation, proliferation and apoptosis. Improper function may contribute to hematopoietic malignancies and cancer. This book provides comprehensive insights into the latest basic and clinical developments in the field. The first part reviews recent findings and new technologies pertaining to basics of Jak-Stat function. The second part describes the evolution of Jak-Stat signaling and the role of the pathway in invertebrate organisms. The third part focuses on Jak-Stat signaling in hematopoietic cells under both physiological and pathophysiological conditions. Finally, chapters in the fourth section describe the relationship of Jak-Stat signaling to various states of disease, particularly infection, leukemias[...]

Features
- Jak-Stat Signaling and STAT transcription factors constitute a signaling pathway, which is activated by cytokines. By activating gene transcription it regulates essential biological responses to environmental cues. The Jak-Stat pathway is involved in the regulation of cell development, differentiation, proliferation and apoptosis. Improper function may contribute to hematopoietic malignancies and cancer.[...]

Contents

Fields of interest
- Stem Cells; Cell Biology; Cancer Research; Immunology; Hematology; Gene Function

Target groups
- Research

Type of publication
- Contributed volume

Usually dispatched within 3 to 5 business days.

149.95 €
ISBN 978-3-7091-0890-1
Loch Leven: 40 years of scientific research

Understanding the links between pollution, climate change and ecological response

Shallow lakes are important for their amenity value and the ecosystem services that they support. However, many are located in areas of high population density and intensive farming activity. As such, they are subject to many stressors, including eutrophication and climate change. This book examines 40 years of data from Loch Leven, a shallow lake in the lowlands of Scotland, UK, to gain a better understanding of the links between pollution, climate change and ecological response at the landscape scale. A wide range of topics is presented, including long term changes in nutrient inputs, internal phosphorus loading, water quality, algal concentrations, and the biodiversity of macrophytes, zooplankton, benthic invertebrates, fish and waterfowl. The book provides evidence that attempts to improve ecosystem services at this site in the past have often resulted in unintended consequences for the lake and the local community.

It concludes that successful management actions in the future are likely to be [...] Features

Shallow lakes are important for their amenity value and the ecosystem services that they support. However, many are located in areas of high population density and intensive farming activity. As such, they are subject to many stressors, including eutrophication and climate change. This book examines 40 years of data from Loch Leven, a shallow lake in the lowlands of Scotland, UK, to gain a better understanding [...] Contents

A history of scientific research at Loch Leven, Kinross, Scotland. - Historical changes (1905–2005) in external phosphorus loads to Loch Leven, Scotland, UK. - Long-term variation and regulation of internal phosphorus loading in Loch Leven. - Water quality of Loch Leven. - Changes in aquatic macrophyte communities in Loch Leven. - Long-term trends in Loch Leven invertebrate communities. - Changes in the fish community of Loch Leven. - Long-term variations in waterfowl populations in Loch Leven. - Modelling the response of phytoplankton in a shallow lake (Loch Leven, UK) to changes in lake [...] Fields of interest

Floodwater & Marine Ecology; Marine & Freshwater Sciences; Climate Change; Ecosystems; Biodiversity

Target groups

Research

Type of publication

Contributed volume

Usually dispatched within 3 to 5 business days.


94.95 €
ISBN 978-1-61779-917-4

Microbial Carotenoids From Fungi

Methods and Protocols

Carotenoids are a family of yellow to orange-red terpenoid pigments synthesized by photosynthetic organisms and many bacteria and fungi. They have beneficial health effects protecting against oxidative damage, and may be responsible for the colours associated with plants and animals. In Microbial Carotenoids From Fungi: Methods and Protocols, expert researchers in the field detail many of the most up-to-date methods which are now commonly used to study carotenoids. These include methods for the manipulation and metabolic engineering of the Beta-carotene producing fungi Blakeslea trispora and Muco circinelloides, lycopene production with the yeast Yarrowia lipolytica, peroxisome targeting of lycopene pathway enzymes in Pichia pastoris, and the manipulation of the heterobasidionzymonyceous yeast Xanthophyllumodes dendrothous, which produces astaxanthin, a red xanthophyll with large importance in the aquaculture, pharmaceutical, and food industries. Additionally, the book includes a DNA assembler method [...] Features

Carotenoids are a family of yellow to orange-red terpenoid pigments synthesized by photosynthetic organisms and many bacteria and fungi. They have beneficial health effects protecting against oxidative damage, and may be responsible for the colours associated with plants and animals. In Microbial Carotenoids From Fungi: Methods and Protocols, expert researchers in the field detail many of the most up-to-date methods which are now commonly used to study carotenoids. These include methods for the manipulation and metabolic engineering of the Beta-carotene producing fungi Blakeslea trispora and Muco circinelloides, lycopene production with the yeast Yarrowia lipolytica, peroxisome targeting of lycopene pathway enzymes in Pichia pastoris, and the manipulation of the heterobasidionzymonyceous yeast Xanthophyllumodes dendrothous, which produces astaxanthin, a red xanthophyll with large importance in the aquaculture, pharmaceutical, and food industries. Additionally, the book includes a DNA assembler method [...] Contents

Essential Role of Genetics in the Advancement of Biotechnology - Microbial Carotenoids - Biosynthesis, Extraction, Purification and Analysis of Trisporoid Sexual Communication Compounds from Mated Cultures of Blakeslea trispora - Isolation of Mutants and Construction of Interspecific Heterokaryons of Blakeslea trispora - Molecular Tools for Carotenogenesis Analysis in the Zygomycete Muco circinelloides - Gene Fusions for the Directed Modification of the Carotenoid Biosynthesis Pathway in Muco circinelloides - Integration of a Bacterial b-carotene Ketolase Gene into the Muco circinelloides [...] Fields of interest

Microbiology

Target groups

Professional/practitioner

Type of publication

Contributed volume

Usually dispatched within 3 to 5 business days.


94.95 €
ISBN 978-1-61779-917-4

Mikrobiologie

Eine Wissenschaft mit Zukunft


Teil 1 Die mikrobielle Zelle - 1 Mikrobielles Leben: Ursprung und Entdeckung - 2 Das Beobachten der mikrobiellen Zelle - 3 Struktur und Funktion der Zelle - 4 Kultur, Wachstum und Entwicklung von Bakterien - 5 Umwelteinflüsse und die Kontrolle des mikrobiellen Wachstums - 6 Struktur und Funktion von Viren - 7 Genome und Chromosomen - 8 Transkription, Translation und Bioinformatik - 9 Gentransfer, Mutationen und Evolution des Genoms - 10 Molekulare Regulation - 11 Molekularbiologie der Viren - 12 Molekularbiologische Methoden und Biotechnologie - Teil 2 [...] Fields of interest

Microbiology; Medical Microbiology; Infectious Diseases; Environmental Engineering; Biotechnology; Biomedical Engineering

Target groups

Upper undergraduate

Type of publication

German textbook

Online orders shipping within 2-3 days.

2012. XXVI, 1425 S. 940 Abb. in Farbe. Hardcover

74.72 €
ISBN 978-3-8274-2909-4
## Molecular Biological Technologies for Ocean Sensing

The development of ocean sensors remains a ripe area for future investigation from science, policy and systems engineering standpoints. Clearly, there are many options for realizing integrated molecular analytical sensing systems. The definition of key target molecules, detection methods and signal transduction models largely remain to be determined. Moreover, there remains an unmet challenge of merging this new class of instrument with different deployment platforms, and supplying necessary power and data telemetry infrastructure for their operation. Molecular Biological Technologies for Ocean Sensing features methods papers on the application of ecogenomic sensors on autonomous platforms in the ocean. Topics include the use of ecogenomic sensors as a tool in whole-cell and cell-free based detection and monitoring a suite of pathogens and biotoxins that are of public health concern; documenting species diversity, evolution and metabolic function; identification and quantification of aquatic organisms; and [...] 

### Contents

- Chapter 1. Genome-enabled microbial sensors on ocean platforms
- Chapter 2. Development of a Capillary Waveguide Biosensor Analytical Module for use with the MBARI Environmental Sample Processor
- Chapter 3. Microfabricated Flow-Through Device For In Situ Gene Analysis
- Chapter 4. Method for the Quantification of Aquatic Primary Production and Net Ecosystem Metabolism Using In Situ Dissolved Oxygen Sensors
- Chapter 5. DNAzyme-Based Sensing for Metal Ions in Ocean Platforms
- Chapter 6. Ultrasensitive Visual Fluorescence Detection of Heavy Metal Ions in Water Based on DNA-Functionalized [...] 

### Fields of interest

- Microbiology
- Ecology
- Oceanography

### Target groups

- Graduate

### Type of publication

- Handbook

### Usually dispatched within 3 to 5 business days.


109,95 €

ISBN 978-1-61779-914-3

## Plant Breeding for Abiotic Stress Tolerance

The rapid population growth and the increase in the per capita income, especially in the group of emerging countries referred to as BRIC countries (Brazil, Russia, India, China and South Africa) has created huge pressure for the expansion of the agricultural growing area and the crop yields to meet the rising demand. As a result, many areas that have been considered marginal for growing crops, due to their low fertility, drought, salinity, and many other abiotic stresses, have now been incorporated in the production system. Additionally, climate change has brought new challenges to agriculture to produce food, feed, fiber and biofuels. To cope with these new challenges, many plant breeding programs have reoriented their breeding scope to stress tolerance in the last years. The authors of this book have collected the most recent advances and discoveries applied to breeding for abiotic stresses in this book, starting with new physiological concepts and breeding methods, and moving on to discuss modern [...] 

### Features

- The rapid population growth and the increase in the per capita income, especially in the group of emerging countries referred to as BRIC countries (Brazil, Russia, India, China and South Africa) has created huge pressure for the expansion of the agricultural growing area and the crop yields to meet the rising demand. As a result, many areas that have been considered marginal for growing crops, due to their [...] 

### Contents

- Abiotic Stresses: Challenges for Plant Breeding in the Coming Decades
- Breeding for Stress-Tolerance or Resource-Use Efficiency
- The Physiology of the Abiotic Stresses
- Breeding for Nitrogen Use Efficiency
- Breeding for Phosphorus Use Efficiency
- Breeding for Water Use Efficiency
- Breeding for Salinity Tolerance
- Breeding for Aluminum Tolerance
- Breeding Heat-Stress Tolerance
- Breeding Perennial Species for Abiotic Stresses

### Fields of interest

- Plant Breeding
- Biotechnology
- Agriculture
- Plant Genetics and Genomics
- Plant Physiology

### Target groups

- Research

### Type of publication

- Contributed volume

### Usually dispatched within 3 to 5 business days.

2012. XII, 175 p. 24 illus., 8 in color. Hardcover

139,95 €

ISBN 978-3-642-30552-8

## Plant Signaling Peptides

Plants have evolved with a complex array of signaling molecules to facilitate their growth and development and their interactions with the environment. A vast number of different peptide molecules form an important but until recently often overlooked component amongst these signaling molecules. Plant peptide signals are involved in regulating meristem growth and organogenesis, modulating plant growth and homeostatic responses. They also have important roles as signals of imminent danger or pathogen attack. This volume focuses on the roles of various peptide signaling molecules in development, defence and homeostasis. As it is likely that further plant peptide signaling molecules remain to be discovered, the last section takes a practical look at methods to identify new peptides and characterise their functions. 

### Features

- Plants have evolved with a complex array of signaling molecules to facilitate their growth and development and their interactions with the environment. A vast number of different peptide molecules form an important but until recently often overlooked component amongst these signaling molecules. Plant peptide signals are involved in regulating meristem growth and organogenesis, modulating plant growth and [...] 

### Contents

- Overview of Signalling Peptides in Plants Focusing on Evolutionary Adaptations
- Peptides Regulating Apical Meristem Development
- Peptides Regulating Root Growth
- Peptides Regulating Vessel Development
- Peptides Involved in Self Incompatibility
- Peptides Modulating Development of Specialised Cells
- Anti-microbial Peptides
- The Role of Plant Peptides in Symbiotic Interactions
- Danger Signals Relayed by Peptidic MAMPs and DAMPs
- Peptides Regulating Plant Homeostasis
- Processing of Peptides
- Methods to Isolate and Identify New Plant Signalling Peptides
- Methods to Identify [...] 

### Fields of interest

- Plant Biochemistry
- Plant Physiology
- Protein-Ligand Interactions
- Plant Anatomy / Development
- Protein Science

### Target groups

- Research

### Type of publication

- Contributed volume

### Usually dispatched within 3 to 5 business days.

2012. X, 284 p. 37 illus., 27 in color. (Springing and Communication in Plants, Vol. 16) Hardcover

139,95 €

ISBN 978-3-642-27602-6
Prenatal Gene Therapy

Concepts, Methods, and Protocols

The emerging field of prenatal gene therapy is founded on scientific and technical advances in fetal medicine, molecular biology and gene therapy. This preclinical research subject aims at applying gene therapy during pregnancy for the prevention of human diseases caused by early onset congenital or gestation related conditions. In Prenatal Gene Therapy: Concepts, Methods and Protocols, expert researchers in the field detail many of the protocols which are now commonly used to study gene therapy, fetal medicine and medical ethics. These include detailed protocols for vector production, for breeding and husbandry of the animal models, for the surgical procedures of gene delivery in large and small animals and for the methods of gene transfer analysis. Written in the highly successful Methods in Molecular Biology™ series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and key[...]

Features

The emerging field of prenatal gene therapy is founded on scientific and technical advances in fetal medicine, molecular biology and gene therapy. This preclinical research subject aims at applying gene therapy during pregnancy for the prevention of human diseases caused by early onset congenital or gestation related conditions. In Prenatal Gene Therapy: Concepts, Methods and Protocols, expert[...]

Contents


Fields of interest

Animal Genetics and Genomics; Human Genetics; Gene Therapy

Target groups

Professional/practitioner

Type of publication

Contributed volume

Usually dispatched within 3 to 5 business days.

2012, X, 392 p. 33 illus., 7 in color. (Methods in Molecular Biology, Vol. 891) Hardcover

109,95 €
ISBN 978-1-61779-872-6

Quantitative Methods in Proteomics

Protein modifications and changes made to them, as well as the quantities of expressed proteins, can define the various functional stages of the cell. Accordingly, perturbations can lead to various diseases and disorders. As a result, it has become paramount to be able to detect and monitor post-translational modifications and to measure the abundance of proteins within the cell with extreme sensitivity. While protein identification is an almost routine requirement nowadays, reliable techniques for quantifying unmodified proteins (including those that escape detection under standard conditions, such as protein isoforms and membrane proteins) is not routine. Quantitative Methods in Proteomics gives a detailed survey of topics and methods on the principles underlying modern protein analysis, from statistical issues when planning proteomics experiments, to gel-based and mass spectrometry-based applications. The quantification of post-translational modifications is also addressed, followed by the "hot"[...]

Features

Protein modifications and changes made to them, as well as the quantities of expressed proteins, can define the various functional stages of the cell. Accordingly, perturbations can lead to various diseases and disorders. As a result, it has become paramount to be able to detect and monitor post-translational modifications and to measure the abundance of proteins within the cell with extreme sensitivity.[...]

Contents


Fields of interest

Protein Science; Proteomics

Target groups

Professional/practitioner

Type of publication

Contributed volume

Usually dispatched within 3 to 5 business days.

2012, XV, 539 p. 97 illus., 11 in color. (Methods in Molecular Biology, Vol. 893) Hardcover

109,95 €

RNA Metabolism in Trypanosomes

Trypanosomes are unicellular protozoa of ancient evolutionary origin that are responsible for several tropical diseases, such as African sleeping sickness. Over the last few decades, research in trypanosome biology has revealed many unique and fascinating features, many of which have helped to establish new paradigms in other biological systems. This applies in particular to studies in gene expression and regulation, which benefit enormously from the trypanosome genome projects and from the new genome-wide approaches recently introduced in trypanosome research. This volume covers the most important aspects of biosynthesis, processing, and functions of RNA in trypanosomes, ranging from transcription to RNA editing, mRNA splicing/translation/turnover, processing of transfer and ribosomal RNA, RNA interference, and current transcriptome-wide analyses. Recent progress in RNA focused research in trypanosomatids promises to yield novel insights into trypanosome-specific features, as well as to reveal in[...]

Features

Trypanosomes are unicellular protozoa of ancient evolutionary origin that are responsible for several tropical diseases, such as African sleeping sickness. Over the last few decades, research in trypanosome biology has revealed many unique and fascinating features, many of which have helped to establish new paradigms in other biological systems. This applies in particular to studies in gene expression and[...]

Contents


Fields of interest

Nucleic Acid Chemistry; Eukaryotic Microbiology; Parasitology; Gene Expression

Target groups

Research

Type of publication

Contributed volume

Usually dispatched within 3 to 5 business days.

2012, VI, 271 p. 27 illus., 22 in color. (Nucleic Acids and Molecular Biology, Vol. 28) Hardcover

139,95 €
ISBN 978-3-642-28686-5
Receptor Binding Techniques

A broad definition of a receptor is a specialized protein on or in a cell that recognizes and binds a specific ligand to undergo a conformational change, leading to a physiological response or change in cell function. A ligand can be an endogenous neurotransmitter, hormone, paracrine/autocrine factor, or a synthetic drug that may function as an agonist or antagonist. The third edition of Receptor Binding Techniques expands upon the methods and techniques used for studying receptors in silico, in vitro and in vivo. Comprehensive chapters describe how to use online resources for experimental research such as prediction of receptor-ligand interactions and mine the IUPHAR receptor database. Classical techniques of radioligand binding, quantitative autoradiography and their analyses are complemented by the use of immunocytochemistry for the cellular localization of receptor protein and hybridization to detect receptor mRNA. Protocols using fluorescent labeled ligands are described to visualize

Features

- A broad definition of a receptor is a specialized protein on or in a cell that recognizes and binds a specific ligand to undergo a conformational change, leading to a physiological response or change in cell function. A ligand can be an endogenous neurotransmitter, hormone, paracrine/autocrine factor, or a synthetic drug that may function as an agonist or antagonist.

Contents

- Receptor Databases and Computational Websites for Ligand Binding
- How to use the IUPHAR Receptor Database to Navigate Pharmacological Data
- Radioligand Binding Assays and their Analysis
- Use of Scintillation Proximity Assay (SPA) to Measure Radioligand Binding to Immobilised Receptors without Separation of Bound from Free Ligand
- Visualization and Analysis of Vascular Receptors using Confocal Laser Scanning Microscopy and Fluorescent Ligands
- Dissecting the Pharmacology of G Protein Coupled Receptor Signalling Complexes using Bimolecular Fluorescence Complementation
- Live Cell Imaging of...

Fields of interest

- Protein Science
- Protein-Ligand Interactions

Target groups

Professional/practitioner

Type of publication

Contributed volume

Usually dispatched within 3 to 5 business days.

Robustness, Plasticity, and Evolvability in Mammals

A Thermal Niche Approach

Among the unresolved topics in evolutionary biology and behavioral ecology are the origins, mechanisms, evolution, and consequences of developmental and phenotypic diversity. In an attempt to address these challenges, plasticity has been investigated empirically and theoretically at all levels of biological organization—from biochemical to whole organism and beyond to the population, community, and ecosystem levels. Less commonly explored are constraints (e.g., ecological), costs (e.g., increased response error), perturbations (e.g., alterations in selection intensity), and stressors (e.g., resource limitation) influencing not only selective values of heritable phenotypic components but, also, decisions and choices (not necessarily conscious ones) available to individuals in populations. Treating extant mammals, the primary purpose of the proposed work is to provide new perspectives on common themes in the literature on robustness (“functional diversity”; differential resistance to “deconstraint” of...)

Features

- None

Contents

- 4. Robustness and polymorphisms in mammals: Core processes, repatterning, constrained variation?, and regulatory logic?.
- 5. Learning may generate phenotypic variability in heterogeneous regimes.

Fields of interest

- Evolutionary Biology
- Animal Ecology
- Developmental Biology
- Animal Genetics and Genomics
- Animal Physiology
- Biodiversity

Target groups

Graduate

Type of publication

Brief

Usually dispatched within 3 to 5 business days.

Studies in Oat Evolution

A Man’s Life with Avena

The book is based on the author’s life time experience in exploring and researching the genus Avena. It describes some great events in oat research and minor stories along the way. It will be of interest and value to all those working with oats and to students and scientists of crop evolution, including those dealing with collecting and conserving wild genetic resources. A first part deals with the morphology and taxonomy of the genus and a classification based on the biological species concept is presented. A further part is devoted to the author’s research accomplishments in this genus. It describes morphological characters distinguishing between diploids and tetraploids of series Eubarbatae, the genetic relationships between them, and the mode of origin of the tetraploid form. The section Denticulatae, to which the common oat belongs, is extensively treated. Further, oat domestication and the newly domesticated protein rich A. magna are described. A third part deals with wild genetic resources of oat.

Features

- None

Contents

- Oat morphology and taxonomy
- Collection of Avena wild genetic resources
- Plant Systematics / Taxonomy / Biogeography
- Agriculture
- Biodiversity

Target groups

Research

Type of publication

Brief

Usually dispatched within 3 to 5 business days.

2012, X, 87 p. 17 illus., 10 in color. (SpringerBriefs in Agriculture) Softcover

49,95 €

ISBN 978-3-642-30546-7

Avena. It describes some great events in oat research and minor stories along the way. It will be of interest and value to all those working with oats and to students and scientists of crop evolution, including those dealing with collecting and conserving wild genetic resources. A first part deals with the morphology and taxonomy of the genus and a classification based on the biological species concept is presented. A further part is devoted to the author’s research accomplishments in this genus. It describes morphological characters distinguishing between diploids and tetraploids of series Eubarbatae, the genetic relationships between them, and the mode of origin of the tetraploid form. The section Denticulatae, to which the common oat belongs, is extensively treated. Further, oat domestication and the newly domesticated protein rich A. magna are described. A third part deals with wild genetic resources of oat.

Features

- None

Contents

- Oat morphology and taxonomy
- Collection of Avena wild genetic resources
- Plant Systematics / Taxonomy / Biogeography
- Agriculture
- Biodiversity

Target groups

Research

Type of publication

Brief

Usually dispatched within 3 to 5 business days.

2012, X, 87 p. 17 illus., 10 in color. (SpringerBriefs in Evolutionary Biology) Softcover

49,95 €

Sulfur Metabolism in Plants

Mechanisms and Applications to Food Security and Responses to Climate Change

This proceedings volume contains the invited and a selection of the contributed papers of the 8th International Workshop on Sulfur Metabolism in Higher Plants, which was held at Department of Forest and Ecosystem Science, University of Melbourne, Water Street, Creswick, Victoria 3363, Australia from November 22-27, 2010. Content of the volume shows that the understanding of sulfur metabolism in plants and the interaction of the environment are rapidly progressing. This volume covers various aspects of the regulation of sulfate uptake and assimilation in plants, from a cellular to a whole plant level, and additionally emphasizes interactions with other minerals. Moreover the significance of sulfur metabolism in biotic and abiotic stress responses, in food security and quality, and in relation to interactions with global change factors is discussed in detail.

Features

This proceedings volume contains the invited and a selection of the contributed papers of the 8th International Workshop on Sulfur Metabolism in Higher Plants, which was held at Department of Forest and Ecosystem Science, University of Melbourne, Water Street, Creswick, Victoria 3363, Australia, from November 22-27, 2010. The content of the volume shows that the understanding of sulfur metabolism in plants [...]
Analytical Imaging Techniques for Soft Matter Characterization

The book aims to describe the microscopic characterization of the soft matter in the light of new advances acquired in the science of microscopy techniques like AFM, SEM, TEM etc. It does not focus on the traditional information on the microscopy methods as well as systems already present in different books, but intends to answer more fundamental questions associated with commercially important systems by using new advances in microscopy. Such questions are generally not answered by other techniques. The contents of the book also reflect this as the chapters are not based on describing only material systems, but are based on the answering the problems or questions arising in their characterization. Both qualitative as well as quantitative analysis using such microscopic techniques is discussed. Moreover, efforts have been made to provide a broader reach as discussions on both polymers as well as biological matter have been included as different sections. Such a text with comprehensive overview of [...] 

Features
This book describes the microscopic characterization of the soft matter in the light of new advances acquired in the science of microscopy techniques like AFM, SEM, TEM etc. The book does not focus on the traditional information on the microscopy methods as well as systems already present in different books, but intends to answer more fundamental questions associated with commercially important systems by [...] 

Contents

Fields of interest
Characterization and Evaluation of Materials; Spectroscopy and Microscopy; Soft and Granular Matter, Complex Fluids and Microfluidics

Target groups
Research

Type of publication
Monograph

Mathematical Modeling in Mechanics of Granular Materials

This monograph contains original results in the field of mathematical and numerical modeling of mechanical behavior of granular materials and materials with different strengths. It proposes new models helping to define zones of the strain localization. The book shows how to analyze processes of the propagation of elastic and elastic-plastic waves in loosened materials, and constructs models of mixed type, describing the flow of granular materials in the presence of quasi-static deformation zones. In a last part, the book studies a numerical realization of the models on multiprocessor computer systems. The book is intended for scientific researchers, lecturers of universities, post-graduates and senior students, who specialize in the field of the deformable materials mechanics, mathematical modeling and adjacent fields of applied and calculus mathematics.

Features
This monograph contains original results in the field of mathematical and numerical modeling of mechanical behavior of granular materials and materials with different strengths. It proposes new models helping to define zones of the strain localization. The book shows how to analyze processes of the propagation of elastic and elastic-plastic waves in loosened materials, and constructs models of mixed type, [...] 

Contents

Fields of interest
Characterization and Evaluation of Materials; Continuum Mechanics and Mechanics of Materials; Soft and Granular Matter, Complex Fluids and Microfluidics; Algorithms

Target groups
Research

Type of publication
Monograph

Usually dispatched within 3 to 5 business days.


129,95 €
ISBN 978-3-642-29052-7
Microsystems and Nanotechnology

“Microsystems and Nanotechnology” presents the latest science and engineering research and achievements in the fields of Microsystems and nanotechnology, bringing together contributions from authoritative experts from the United States, Germany, Great Britain, Japan and China to discuss the latest advances in microelectromechanical systems (MEMS) technology and micro/nanotechnology. The book is divided into five parts – the fundamentals of Microsystems and Nanotechnology, Microsystems technology, Nanotechnology, application issues, and the developments and prospects – and is a valuable reference for students, teachers and engineers working with the involved technologies. Professor Zhaoying Zhou is a professor at the Department of Precision Instruments & Mechatronics, Tsinghua University, and the Chairman of the MEMS & NEMS Society of China. Dr. Zhonglin Wang is the Director of the Center for Nanostucture Characterization, Georgia Tech, USA. Dr. Liewei Lin is a Professor at the Department of Mechanical[...]

Contents

Fields of interest
Nanotechnology

Target groups
Research

Type of publication
Monograph

Online orders shipping within 2-3 days.

2012. 880 p. 400 illus. Hardcover
198,00 €
ISBN 978-3-642-18292-1

Mathematics

Arithmetic Tales

Number theory was once famously labeled the queen of mathematics by Gauss. The multiplicative structure of the integers in particular deals with many fascinating problems some of which are easy to understand but very difficult to solve. In the past, a variety of very different techniques has been applied to further its understanding. Classical methods in analytic theory such as Mertens’ theorem and Chebyshyev’s inequalities and the celebrated Prime Number Theorem give estimates for the distribution of prime numbers. Later on, multiplicative structure of integers leads to multiplicative arithmetical functions for which there are many important applications in number theory. Their theory involves the Dirichlet convolution product which arises with the inclusion of several summation techniques and a survey of classical results such as Hall and Tenenbaum’s theorem and the Möbius Inversion Formula. Another topic is the counting integer points close to smooth curves and its relation to the distribution of[...]

Contents

Fields of interest
Number Theory; Mathematics (general)

Target groups
Graduate

Type of publication
Graduate/advanced undergraduate textbook

Usually dispatched within 3 to 5 business days.

2012. XXI, 556 p. 5 illus. (Universitext) Softcover
69,95 €

Mathematics

O. Bordellès, Aiguilhe, France

Numerical Analysis of Heat and Mass Transfer in Porous Media

The purpose of ‘Numerical Analysis of Heat and Mass Transfer in Porous Media’ is to provide a collection of recent contributions in the field of computational heat and mass transfer in porous media. The main benefit of the book is that it discusses the majority of the topics related to numerical transport phenomenon in engineering (including state-of-the-art and applications) and presents some of the most important theoretical and computational developments in porous media and transport phenomenon domain, providing a self-contained major reference that is appealing to both the scientists, researchers and the engineers. At the same time, these topics encounter of a variety of scientific and engineering disciplines, such as chemical, civil, agricultural, mechanical engineering, etc. The book is divided in several chapters that intend to be a resume of the current state of knowledge for benefit of professional colleagues.

Features
The purpose of ‘Numerical Analysis of Heat and Mass Transfer in Porous Media’ is to provide a collection of recent contributions in the field of computational heat and mass transfer in porous media. The main benefit of the book is that it discusses the majority of the topics related to numerical transport phenomenon in engineering (including state-of-the-art and applications) and presents some of the most[...]

Contents

Fields of interest
Characterization and Evaluation of Materials; Continuum Mechanics and Mechanics of Materials; Soft and Granular Matter; Complex Fluids and Microfluidics

Target groups
Research

Type of publication
Monograph

Usually dispatched within 3 to 5 business days.

129,95 €
ISBN 978-3-642-30531-3

Mathematics

**Around and Beyond the Square of Opposition**

The theory of oppositions based on Aristotelian foundations of logic has been pictured in a striking square diagram which can be understood and applied in many different ways having repercussions in various fields: epistemology, linguistics, mathematics, sociology, physics. The square can also be generalized in other two-dimensional or multi-dimensional objects extending in breadth and depth the original Aristotelian theory. The square of opposition from its origin in antiquity to the present day continues to exert a profound impact on the development of deductive logic. Since 10 years there is a new growing interest for the square due to recent discoveries and challenging interpretations. This book presents a collection of previously unpublished papers by high level specialists on the square from all over the world.

**Features**
The theory of oppositions based on Aristotelian foundations of logic has been pictured in a striking square diagram which can be understood and applied in many different ways having repercussions in various fields: epistemology, linguistics, mathematics, sociology, physics. The square can also be generalized in other two-dimensional or multi-dimensional objects extending in breadth and depth the original [...]
For Better or For Worse? Collaborative Couples in the Sciences

In this volume, a distinguished set of international scholars examine the nature of collaboration between life partners in the sciences, with particular attention to the ways in which personal and professional dynamics can foster or inhibit scientific practice. Breaking from traditional gender analyses which focus on divisions of labor and the assignment of credit, the studies scrutinize collaboration as a variable process between partners living in the nineteenth and twentieth centuries who were married and divorced, heterosexual and homosexual, aristocratic and working-class and politically right and left. The contributors analyze cases shaped by their particular geographical locations, ranging from retreat settings like the English countryside and Woods Hole, Massachusetts, to university laboratories and urban centers in Berlin, Stockholm, Geneva and London. The volume demonstrates how the terms and meanings of collaboration, variably shaped by disciplinary imperatives, cultural mores, and the [...] Features

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Internal and External Stabilization of Linear Systems with Constraints

Most nonlinear systems can be modeled as linear systems with constraints on their inputs and selected outputs. Unifying two decades of research, this book is the first to establish a comprehensive foundation for a systematic analysis and design of such systems. The authors address the following issues in the work: * Internal or Lyapunov stability, external $L_p$ stability, and simultaneous internal and external stability* Control system feedback design laws for different types of stability* New notions of external stability* Additional constraints on controller architecture under decentralized internal and external stabilization* Satisfactory performance, which also guarantees stability * Internal Stabilization of Linear Systems with Constraints is an excellent reference for practicing engineers, graduate students, and researchers in control systems theory and design. The book may also serve as an advanced graduate text for a course or a seminar in nonlinear control systems theory and design in...}

**Features**

- Linear systems with constraints on inputs and states are ubiquitous. Control of such systems has been a long-time challenge to control engineers and will continue to remain so. Indeed, the challenge of constraints is intense and dauntingly formidable and familiar. This book focuses on the very fundamental and primary goal of providing internal stability as well as external stability in the presence of...]

**Contents**


**Fields of interest**

- Systems Theory, Control; Control, Robotics, Mechatronics; Engineering Design; Vibration, Dynamical Systems, Control; Applications of Mathematics

**Target groups**

- Graduate

**Type of publication**

- Monograph

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**Introduction to Mathematical Structures and Proofs**

**Reviews of the first edition:** "...Gerstein wants very gently to teach his students to think. He wants to show them how to wrestle with a problem (one that is more sophisticated than "plug and chug"), how to build a solution, and ultimately he wants to teach the students to take a statement and develop a way to prove it...Gerstein writes with a certain flair that I think students will find appealing. For instance, after his discussion of cardinals he has a section entitled Languages and Finite Automata. This allows him to illustrate some of the ideas he has been discussing with problems that almost anyone can understand, but most importantly he shows how these rather transparent problems can be subjected to a mathematical analysis. His discussion of how a machine might determine whether the sequence of words "Celui fromage de la parce que maintenant" is a legitimate French sentence is just delightful (and even more so if one knows a little French)...I am confident that a student who works through...]

**Features**

- As a student moves from basic calculus courses into upper-division courses in linear and abstract algebra, real and complex analysis, number theory, topology, and so on, a "bridge" course can help ensure a smooth transition. Introduction to Mathematical Structures and Proofs is a textbook intended for such a course, or for self-study. This book introduces an array of fundamental mathematical [...]
Measure and Integration

This collection of Heinz König’s publications connects to his book of 1997 “Measure and Integration” and presents significant developments in the subject from then up to the present day. The result is a consistent new version of measure theory, including selected applications. The basic step is the introduction of the inner • (bullet) and outer • (bullet) premeasures and their extension to unique maximal measures. New "envelopes" for the initial set function (to replace the traditional Carathéodory outer measures) have been created, which lead to much simpler and more explicit treatment. In view of these new concepts, the main results are unmatched in scope and plainness, as well as in explicitness. Important examples are the formation of products, a unified Daniell-Stone-Riesz representation theorem, and projective limits.

Features
This volume presents a collection of twenty-five of Heinz König’s recent and most influential works. Connecting to his book of 1997 “Measure and Integration”, the author has developed a consistent new version of measure theory over the past years. For the first time, his publications are collected here in one single volume.Key features include: - A first-time, original and entirely uniform [...] Contents


Measure and Integration

Target groups

Research

Type of publication

Proceedings

Usually dispatched within 3 to 5 business days.

2012. XII, 508 p. 1 illus. in color. Hardcover

94,95 €
ISBN 978-3-0348-0381-6
Modeling with Stochastic Programming

While there are several texts on how to solve and analyze stochastic programs, this is the first text to address basic questions about how to model uncertainty, and how to reformulate a deterministic model so that it can be analyzed in a stochastic setting. This text would be suitable as a stand-alone or supplement for a second course in OR/MS or in optimization-oriented engineering disciplines where the instructor wants to explain where models come from and what the fundamental issues are. The book is easy-to-read, highly illustrated with lots of examples and discussions. It will be suitable for graduate students and researchers working in operations research, mathematics, engineering and related departments where there is interest in learning how to model uncertainty. Alan King is a Research Staff Member at IBM’s Thomas J. Watson Research Center in New York. Stein W. Wallace is a Professor of Operational Research at Lancaster University Management School in England.

Features
While there are several texts on how to solve and analyze stochastic programs, this is the first text to address basic questions about how to model uncertainty, and how to reformulate a deterministic model so that it can be analyzed in a stochastic setting. This text would be suitable as a stand-alone or supplement for a second course in OR/MS or in optimization-oriented engineering disciplines where the [...]
Ramanujan’s Lost Notebook

Part III

In the spring of 1976, George Andrews of Pennsylvania State University visited the library at Trinity College, Cambridge to examine the papers of the late G.N. Watson. Among these papers, Andrews discovered a sheaf of 138 pages in the handwriting of Srinivasa Ramanujan. This manuscript was soon designated, “Ramanujan’s lost notebook.” Its discovery has frequently been deemed the mathematical equivalent of finding Beethoven’s tenth symphony. This volume is the third of five volumes that the authors plan to write on Ramanujan’s lost notebook and other manuscripts and fragments found in The Lost Notebook and Other Unpublished Papers, published by Narosa in 1988. The ordinary partition function p(n) is the focus of this third volume. In particular, ranks, cranks, and congruences for p(n) are in the spotlight. Other topics include the Ramanujan tau-function, the Rogers–Ramanujan functions, highly composite numbers, and sums of powers of theta functions. Review from the second volume: “Fans of Ramanujan’s [...]”

Features

In the spring of 1976, George Andrews of Pennsylvania State University visited the library at Trinity College, Cambridge to examine the papers of the late G.N. Watson. Among these papers, Andrews discovered a sheaf of 138 pages in the handwriting of Srinivasa Ramanujan. This manuscript was soon designated, “Ramanujan’s lost notebook.” Its discovery has frequently been deemed the mathematical equivalent of [...]”

Contents


Fields of interest

Number Theory

Target groups

Research

Type of publication

Monograph

Random Perturbations of Dynamical Systems

Many notions and results presented in the previous editions of this volume have since become quite popular in applications, and many of them have been “rediscovered” in applied papers. In the present 3rd edition small changes were made to the chapters in which long-time behavior of the perturbed system is determined by large deviations. Most of these changes concern terminology. In particular, it is explained that the notion of sub-limiting distribution for a given initial point and a time scale is identical to the idea of metastability, that the stochastic resonance is a manifestation of metastability, and that the theory of this effect is a part of the large deviation theory. The reader will also find new comments on the notion of quasi-potential that the authors introduced more than forty years ago, and new references to recent papers in which the proofs of some conjectures included in previous editions have been obtained. Apart from the above mentioned changes the main innovations in the 3rd [...]”

Features

Many notions and results presented in the previous editions of this volume have since become quite popular in applications, and many of them have been “rediscovered” in applied papers. In the present 3rd edition small changes were made to the chapters in which long-time behavior of the perturbed system is determined by large deviations. Most of these changes concern terminology. In particular, it [...]”

Contents


Fields of interest

Probability Theory and Stochastic Processes

Target groups

Graduate

Type of publication

Graduate/advanced undergraduate textbook

Spectral Theory of Operators on Hilbert Spaces

This work is a concise introduction to spectral theory of Hilbert space operators. Its emphasis is on recent aspects of theory and detailed proofs, with the primary goal of offering a modern introductory textbook for a first graduate course in the subject. The coverage of topics is thorough, as the book explores various delicate points and hidden features often left untreated. Spectral Theory of Operators on Hilbert Spaces is addressed to an interdisciplinary audience of graduate students in mathematics, statistics, economics, engineering, and physics. It will also be useful to working mathematicians using spectral theory of Hilbert space operators, as well as for scientists wishing to apply spectral theory to their field.

Features

This work is intended to provide a concise introduction to the spectral theory of Hilbert space operators. With an emphasis on detailed proofs and recent aspects of theory, it can serve as a modern textbook for a first graduate course in the subject. The coverage of topics is thorough, exploring various intricate points and hidden features often left untreated. The book begins with a primer on [...]”

Contents


Fields of interest

Operator Theory; Functional Analysis; Non-associative Rings and Algebras

Target groups

Graduate

Type of publication

Graduate/advanced undergraduate textbook

Usually dispatched within 3 to 5 business days.
Spectral Theory, Mathematical System Theory, Evolution Equations, Differential and Difference Equations

21st International Workshop on Operator Theory and Applications, Berlin, July 2010

The present volume contains a collection of original research articles and expository contributions on recent developments in operator theory and its multifaceted applications. They cover a wide range of themes from the IWOTA 2010 conference held at the TU Berlin, Germany, including spectral theory, function spaces, mathematical system theory, evolution equations and semigroups, and differential and difference operators. The book encompasses new trends and various modern topics in operator theory, and serves as a useful source of information to mathematicians, scientists and engineers.

Features
The present volume contains a collection of original research articles and expository contributions on recent developments in operator theory and its multifaceted applications. They cover a wide range of themes from the IWOTA 2010 conference held at the TU Berlin, Germany, including spectral theory, function spaces, mathematical system theory, evolution equations and semigroups, and differential and difference operators. The book encompasses new trends and various modern topics in operator theory, and serves as a useful source of information to mathematicians, scientists and engineers.

Fields of interest
Operator Theory; Functional Analysis

Target groups
Research

Type of publication
Proceedings

Usually dispatched within 3 to 5 business days.


139.95 €
ISBN 978-3-0348-0296-3

Active Surveillance for Localized Prostate Cancer

L. Klotz, University of Toronto, ON, Canada (Ed.)

Active Surveillance for Localized Prostate Cancer

A New Paradigm for Clinical Management

Chapter 1. The Problem of Cancer Overdiagnosis and Overtreatment.
Chapter 2. Patient Selection for Active Surveillance.
Chapter 3. Predicting High Risk Disease Using Tissue Biomarkers.
Chapter 4. Predicting High Risk Disease Using Serum and DNA Biomarkers.
Chapter 5. Triggers for Intervention in Men on Surveillance.
Chapter 6. The Role of MRI in Active Surveillance.
Chapter 7. Active Surveillance: The European Experience.
Chapter 10. Statistical Considerations for...

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

Target groups
Professional/practitioner

Type of publication
Contributed volume

Usually dispatched within 3 to 5 business days.

2012. XI, 208 p. 33 illus., 22 in color. (Current Clinical Urology) Hardcover

139.95 €

Anästhesie und Intensivmedizin für die Fachpflege

R. Larsen, Homburg

Anästhesie und Intensivmedizin für die Fachpflege


Features
Der Standard in der Anästhesie und Intensivpflege in neuer Auflage! Als Pflegende auf der Intensivstation oder in der Anästhesie benötigen Sie medizinisches wie auch pflegerisches Fachwissen auf höchstem Niveau. Als professionell Pflegende finden Sie im „Larsen“ die wesentlichen Themen der Anästhesie wie der Intensivmedizin systematisch dargestellt, verständlich geschrieben und praxissnah ausgerichtet: [...]
Atlas of Muscle Innervation Zones
Understanding Surface Electromyography and Its Applications

Invasive electromyography is a well-established diagnostic tool that has been used for decades by neurologists. Recently, new and alternative devices have increasingly become available that permit diagnosis without the use of needles. This developing area of science and the new tools have not, however, been sufficiently investigated in academic training. Consequently a gap exists between what science is making possible and the competence acquired during graduate studies. This handy volume has the aim of filling this gap by providing the information required by medical practitioners in rehabilitation, sports, and occupational health as well as by rehabilitation therapists, ergonomists, and sport coaches. The techniques that are presented and explained will help in monitoring and recording changes, evaluating the effectiveness of treatments and training, evaluating work stations, and preventing and documenting the evolution of occupational disorders of the neuromuscular system.

Features
Invasive electromyography is a well-established diagnostic tool that has been used for decades by neurologists. Recently, new and alternative devices have increasingly become available that permit diagnosis without the use of needles. This developing area of science and the new tools have not, however, been sufficiently investigated in academic training. Consequently a gap exists between what science is making possible [...]

Contents

Fields of interest
Neurology; Rehabilitation; Pain Medicine

Target groups
Professional/practitioner

Type of publication
Monograph

Usually dispatched within 3 to 5 business days.

Bone-Metabolic Functions and Modulators

Recent research, which Bone Metabolic Function and Modulators expands on, has added new support to the idea that bone not only serves as a support system, but also functions as an integrating organ, with a significant regulatory role for lipid and energy metabolism. Links between physical activity and the skeleton are also becoming increasingly clear. This fully illustrated volume contains up-to-date information on the metabolic role of the skeleton and what this can mean for the treatment of metabolic as well as skeletal and auditory diseases. Bone Metabolic Function and Modulators is of particular interest to clinician scientists, clinical and basic bone researchers, orthopedists, endocrinologists, internists, dentists, nurse practitioners, medical and dental residents and physiotherapists as well as students of the musculoskeletal system. Bone Metabolic Function and Modulators is the seventh volume in the series Topics in Bone Biology, edited by Felix Bronner and Mary C. Farach-Carson. Other [...]

Features
Recent research, which Bone Metabolic Functions and Modulators expands on, has added new support to the idea that bone not only serves as a support system, but also functions as an integrating organ, with a significant regulatory role for lipid and energy metabolism. Links between physical activity and the skeleton are also becoming increasingly clear. This fully illustrated volume contains [...]

Contents
Parathyroid Hormone and Parathyroid Hormone-Related Protein: Normal Function, Diseases, and Emerging Therapeutics. - Vitamin D: Normal Function, Metabolism, Diseases, and Emerging Therapeutics. - Gonadal Hormones, Diseases, and Emerging Therapeutics. - Thyroid and Thyroid Hormone: Normal Function, Diseases, Disorders, Emerging Therapeutics. - Pituitary Hormones and the Pathophysiology of Osteoporosis. - Calcitonin: Its Physiological Role and Emerging Therapeutics. - Glucocorticoids, Inflammation and Bone. - Diseases of Energy and Lipid Metabolism and Bone: Emerging Therapeutics. - Diseases [...]

Fields of interest
Medical Biochemistry; Metabolic Diseases; Orthopedics; Rheumatology; Internal Medicine

Target groups
Professional/practitioner

Type of publication
Professional book

Usually dispatched within 3 to 5 business days.
Chirurgie
mit integriertem Fallquiz - 40 Fälle nach neuer AO

Features

Contents

Fields of interest
Surgery

Target groups
Upper undergraduate

Type of publication
German textbook

Coma and Disorders of Consciousness
In spite of medical advances and the increasing number of severely brain-injured patients, the assessment and treatment of patients recovering from coma remain challenging. For over 10 years now, the Coma Science Group has been working on the scientific exploration of disorders of consciousness, with both scientific and clinical research agendas. This book is the result of all this work. The aim is to offer both clinicians and researchers an opportunity to acquire expertise in a field which is constantly developing. Besides diagnostic, prognostic and ethical issues, this book includes well-established findings on assessment techniques (i.e., behavioral scales, electrophysiological explorations and structural/functional neuroimaging) and treatment procedures, but also techniques under development (i.e., the use of classifiers, brain-computer interfaces, transcranial magnetic stimulation or deep brain stimulation) which will stimulate ideas for future research. The Coma Science Group presents here […]

Features
In spite of medical advances and the increasing number of severely brain-injured patients, the assessment and treatment of patients recovering from coma remain challenging. For over 10 years now, the Coma Science Group has been working on the scientific exploration of disorders of consciousness, with both scientific and clinical research agendas. This book is the result of all this work. The aim is to offer […]

Contents

Fields of interest
Neurology; Rehabilitation; Internal Medicine; Neurosurgery; Psychiatry; Neuroradiology

Target groups
Professional/practitioner

Type of publication
Contributed volume

Usually dispatched within 3 to 5 business days.

2012. XXI, 169 p. 24 illus., 10 in color. Hardcover

99,95 €

Dicke Luft - Konfliktmanagement in Gesundheitsberufen


Features
An Konflikten können Sie wachen Konflikte gehören zu beruflichen Alltag der Gesundheitsberufe. Oft belasten und überfordern sie die Beteiligten, die Mitarbeiterzufriedenheit sinkt und die Kosten für das Unternehmen steigen. Es geht auch anders! Dieses Buch macht Sie konfliktfähig. Es zeigt, wie Sie in eine gelebte Konfliktkultur investieren können, die Ihr Wohlbefinden steigert und […]

Contents

Fields of interest
Nursing; Nursing Management / Nursing Research; Physiotherapy; Practice Management; Medicine (general); Popular Science

Target groups
Professional/practitioner

Type of publication
Professional book

Online orders shipping within 2-3 days.

2012. IX, 156 S. 11 Abb. (Top im Gesundheitsjob) Softcover

9,30 €
ISBN 978-3-642-24928-0
Ecocontrastografia dell’apparato urinario

L’obiettivo del presente contributo è quello di identificare e definire il ruolo dell’ecocontrastografia nella patologia renale. Svariate sono le pubblicazioni in merito riguardanti il featto mentre l’attenzione per le applicazioni nella patologia urinaria sta aumentando in modo cospicuo negli ultimi anni. La metodica è da subito apparsa affascinante in quanto spesso risolutiva ai fini della diagnosi rendendo superfluo il ricorso superfluo il ricorso ad altre metodiche d’imaging sicuramente più impegnative per il paziente e più costose per la collettività. Infatti considerando l’affidabilità diagnostica della metodica nella valutazione dei trauami, della patologia flogistica, nella tipizzazione delle lesioni cistiche si comprende l’enorme impatto nella pratica clinica della metodica.
Ciò ha spinto i cultori della materia ad un sempre maggiore utilizzo delle “microbolle” anche in altri campi di applicazione come quella del trapianto renale, del reflusso vesico-ureterale sino ad arrivare ad un tentativo di [...] 

Features
L’ecocontrastografia si è rivelata spesso risolutiva ai fini della diagnosi rendendo superfluo il ricorso ad altre metodiche d’imaging sicuramente più impegnative per il paziente e più costose per la collettività. Questo ha spinto ad un sempre maggiore utilizzo delle “microbolle” anche in altri campi di applicazione come quello del trapianto renale, del reflusso vesico-ureterale sino ad arrivare ad un tentativo di [...] 

Contents

Fields of interest
.Imaging / Radiology

Target groups
Professional/practitioner

Type of publication
Monograph

Online orders shipping within 2-3 days.

2012. Ca. 65 pagg. 30 figg., 5 a colori. Softcover

19,18 €
ISBN 978-88-470-2717-6

P. Chabrot, L. Boyer (Eds.)

Embolsion

Features
La sophistication des techniques de cathéterisme et des agents d'embolisation amenés par voie endovasculaire a contribué à un essor considérable des techniques d’occlusion endovasculaire, tant au niveau des troncs artériels et veineux qu’au niveau du lit capillaire parenchymateux distal. Thérapeutiques mini-invasives, embolisation et chimioembolisation par voie endovasculaire constituent désormais des [...] 

Fields of interest
.Interventional Radiology; Angiology; Oncology; Vascular Surgery

Target groups
Professional/practitioner

Type of publication
Monograph

Online orders shipping within 2-3 days.

2012. Env. 435 p. (Collection de la Société française d’imagerie cardiaque et vasculaire) Softcover

79,44 €
ISBN 978-2-287-99169-1

J.-L. Vincent, Erasme Hospital, Brussels, Belgium; J.B. Hall, University of Chicago Medical Center, Chicago, IL, USA (Eds.)

Encyclopedia of Intensive Care Medicine

The aim of this comprehensive encyclopedia is to provide detailed information on intensive care medicine contributing to the broad field of emergency medicine. The wide range of entries in the Encyclopedia of Intensive Care Medicine are written by leading experts in the field. They will provide basic and clinical scientists in academia, practice, as well as industry with valuable information about the field of intensive care medicine, but also people in related fields, students and teachers will benefit from the important and relevant information on the most recent developments in emergency medicine. The Encyclopedia will contain 4 volumes, and published simultaneously online. The entire field has been divided into 14 sections. All entries will be arranged in alphabetical order with extensive cross-referencing between them.

Features
The aim of this comprehensive encyclopedia is to provide detailed information on intensive care medicine contributing to the broad field of emergency medicine. The wide range of entries in the Encyclopedia of Intensive Care Medicine are written by leading experts in the field. They provide basic and clinical scientists in academia, practice, as well as industry with valuable information about the [...] 

Contents
Entires A - Z covering the following disciplines:Neurologic Problems, Respiratory Disorders, Cardiovascular Disorders, Gastrointestinal Disorders, Nutrition Therapy, Metabolic Disorders, Renal Disorders, Infectious Diseases, Hematologic Disorders, Special Populations, Emergency Medicine, Trauma, ICU Procedures, Special Issues.

Fields of interest
.Intensive / Critical Care Medicine; Emergency Medicine; Anesthesiology; Pneumology/Respiratory System; Nutrition; Emergency Services

Target groups
Professional/practitioner

Type of publication
Encyclopedia

Online orders shipping within 2-3 days.


1.250,00 €
ISBN 978-3-642-00419-3

G. Regine, Ospedale S.Camillo-Forlanini, Roma, Italy; M. Atzori, Ospedale S.Camillo-Forlanini, Roma, Italy; R. Fabbro, Ospedale S.Camillo-Forlanini, Roma, Italy
Hals-Nasen-Ohren-Heilkunde


Features

Contents

Fields of interest
Otorhinolaryngology; Speech Pathology

Type of publication
German textbook

Online orders shipping within 2-3 days.

2012. XVI, 488 S. 414 Abb. in Farbe. (Springer-Lehrbuch) Softcover
27,99 €
ISBN 978-3-642-21130-0

Hyperkinetic Movement Disorders

Hyperkinetic Movement Disorders is a state-of-the-art resource devoted to disorders characterized by excessive movement. Organized according to specific disorders or syndromes, each chapter is written by a group of internationally recognized experts. Chapters have been organized by the individual authors to best highlight the salient features of the disorders. Each chapter features a video accommodation that provides highly instructive examples of each disorder, offering clinicians an important video-based tool to aid in making correct diagnoses. Without a visual evaluation of the phenomenology, diagnosis of the hyperkinetic disorder is fraught with error.

Hyperkinetic Movement Disorders is a unique and essential new text written for neurologists, psychiatrists, neurosurgeons, internists, residents and all others interested in movement disorders.

An invaluable resource, it will lead to a better understanding and recognition of the hyperkinetic movement disorders, and that, in turn, will lead to[...]

Contents
Pathophysiology of Hyperkinetic Movement Disorders.- Huntington Disease and Other Choreaes.- Dystonia.- Tourette Syndrome and the Spectrum of Neurodevelopmental Tic Disorders.- Myoclonus.- Paroxysmal Dyskinesias.- Psychogenic Movement Disorders.- Drug-Induced Hyperkinetic Movement Disorders.- Hyperkinetic Disorders in Childhood.- Surgery for Hyperkinetic Movement Disorders.

Fields of interest
Neurology; Internal Medicine; Neurosurgery

Type of publication
Contributed volume

Usually dispatched within 3 to 5 business days.

2012. XIV, 288 S. 5 Illus. (Current Clinical Neurology) Hardcover
139,95 €
ISBN 978-1-58829-805-8
Idiopathic generalised epilepsies

Idiopathic generalised epilepsies provides a concise, authoritative guide to this category of epilepsies. Each syndrome of idiopathic generalised epilepsy is detailed in regard to demographic data, clinical manifestations, aetiology, diagnosis, prognosis and management. The book finishes with a chapter on AED treatment for idiopathic generalised epilepsies. C. P. Panayiotopoulos is an internationally renowned leader and expert in the diagnosis, treatment and management of epilepsy. This pocket-sized reference work will be a valuable resource for all those involved in the care of patients with epileptic seizures.

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Contents
Introduction - Syndromes of IGE recognised by the ILAE - Epilepsy with myoclonic-astatic seizures - Childhood absence epilepsy - Epilepsy with myoclonic absences - Juvenile absence epilepsy - Juvenile myoclonic epilepsy - Epilepsy with GTCs only - Other probable syndromes of IGE to consider - IGE with absences of early childhood - Periarterial myoclonia with absences - IGE with phantom absences - Autosomal dominant cortical tremor, myoclonus and epilepsy - AED treatment of IGEs.

Fields of interest
Neurology; Internal Medicine; Pediatrics

Target groups
Professional/practitioner

Type of publication
Monograph

Online orders shipping within 2-3 days.

2012. XIV, 83 p. 14 illus. in color. Softcover
24,95 €

Il Dentascan

Il successo del trattamento chirurgico implantare è strettamente correlato a un’adeguata pianificazione dell’intervento e a una rigorosa valutazione preoperatoria. L’impiego di software di ricostruzione delle immagini dedicati alla diagnosi dentale, del tipo Dentascan, permette di ottenere ricostruzioni cross-section e simili-panoramiche (panorex) che misurano la quantità di tessuto osseo disponibile e definiscono accuratamente le strutture anatomiche contigue o la presenza di eventuali patologie associate. Questo manuale, dal taglio pratico e sintetico, affronta le principali questioni di ordine tecnico e metodologico relative allo studio TC mirato delle arcate dentarie e alla descrizione dell’anatomia e dei punti critici. Particolare rilievo è attribuito alle problematiche relative alla valutazione pre-implantologica, ai risultati e alle complicanze del trattamento, con cenni anche ad alcune indicazioni extra-implantari

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Contents
Introduzione - Tecnica d’indagine - Anatomia e punti critici - Ruolo della TC nella valutazione preimplantare - Altre applicazioni della TC Dentascan - Bibliografia.

Fields of interest
Medicine (general)

Target groups
Graduate

Type of publication
Monograph

Online orders shipping within 2-3 days.

2012. X. 54 pagg. 39 figg. a colori. (Springer ABC, 5) Softcover
19,18 €
ISBN 978-88-470-2738-1

Imaging Tumor Response to Therapy

Measurement of solid tumor response to treatment relies mainly on imaging. WHO tumor response criteria and, more recently, RECIST (response evaluation criteria in solid tumors) have provided means to objectively measure tumor response in clinical trials with imaging. These guidelines have been rapidly adopted in clinical practice to monitor patient treatment and for therapy planning. However, relying only on anatomical information is not always sufficient when evaluating new drugs that will reduce a tumor’s functionality while preserving its size. Finding more reliable and reproducible measures of tumor response is one of the most important and difficult challenges facing modern radiology as it requires an entirely new approach to imaging. The aim of this book is to address the assessment of response to treatment by adopting a multidisciplinary perspective, just as occurs in real life in a comprehensive cancer center. Oncologists and imaging experts consider two cancer models, locally advanced [..]

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Contents

Fields of interest
Imaging / Radiology; Oncology; Nuclear Medicine

Target groups
Professional/practitioner

Type of publication
Contributed volume

Online orders shipping within 2-3 days.

2012. XVIII, 158 p. 40 illus. in color. Hardcover
99,95 €
ISBN 978-88-470-2612-4

Idiopathic generalised epilepsies

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Target groups
Professional/practitioner

Type of publication
Monograph

Online orders shipping within 2-3 days.

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Fields of interest
Medicine (general)

Target groups
Graduate

Type of publication
Monograph

Online orders shipping within 2-3 days.

2012. X. 54 pagg. 39 figg. a colori. (Springer ABC, 5) Softcover
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ISBN 978-88-470-2738-1

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Contents

Fields of interest
Imaging / Radiology; Oncology; Nuclear Medicine

Target groups
Professional/practitioner

Type of publication
Contributed volume

Online orders shipping within 2-3 days.

2012. XVIII, 158 p. 40 illus. in color. Hardcover
99,95 €
ISBN 978-88-470-2612-4
Imitators of epileptic seizures

Imitators of epileptic seizures provides a concise, authoritative guide to non-epileptic paroxysmal events. The first chapter outlines the main types of epileptic seizures that imitate non-epileptic paroxysmal events. The main bulk of the book details the numerous types of non-epileptic paroxysmal event which may look like epileptic seizures although they are not. C. P. Panayiotopoulos is an internationally renowned leader and expert in the diagnosis, treatment and management of epilepsy. This pocket-sized reference work will be a valuable resource for all those involved in the care of patients with imitators of epileptic seizures.

Features

Imitators of epileptic seizures provides a concise, authoritative guide to non-epileptic paroxysmal events. The first chapter outlines the main types of epileptic seizures that imitate non-epileptic paroxysmal events. The main bulk of the book details the numerous types of non-epileptic paroxysmal event which may look like epileptic seizures although they are not. C. P. Panayiotopoulos is an [...]
La cardio-TC

La cardio-TC è un esame non invasivo del cuore e delle coronarie che sta entrando sempre più frequentemente negli algoritmi diagnostici delle patologie cardiache, con un ruolo complementare rispetto alla coronarografia convenzionale: la cardio-TC permette infatti di valutare direttamente la parete delle coronarie, rendendo possibile uno studio morfologico delle placche aterosclerotiche, al quale è inoltre possibile affiancare la valutazione funzionale della cinesi delle camere e delle valvole cardiache, arricchendo ulteriormente il valore diagnostico dell’indagine. Per utilizzare al meglio tutte le possibilità offerte dalla tecnologia è importante che il Radiologo sia opportunamente formato, con approfondite competenze diagnostica per immagini, e che sia in grado di interagire pariteticamente con il Clinico. Uno studio Cardio-TC di alta qualità richiede aggiornamenti in merito a tecnologia, protocolli di studio e modalità di analisi delle immagini, oltre al riconoscimento dell’appropriatezza[…].

Features
La Cardio-TC è un esame non invasivo del cuore e delle coronarie che sta entrando sempre più frequentemente negli algoritmi diagnostici delle patologie cardiache, con un ruolo complementare rispetto alla coronarografia convenzionale: la cardio-TC permette infatti di valutare direttamente la parete delle coronarie, rendendo possibile uno studio morfologico delle placche aterosclerotiche, al quale è inoltre possibile[…].

Contents

Fields of interest
Medicine (general)

Target groups
Graduate

Type of publication
Monograph

Online orders shipping within 2-3 days.

2012, VIII, 64 pagg. (Springer ABC, Vol. 4) Softcover
23,99 €

Lachen erlaubt! - Humor in Gesundheitsberufen


Features
Humor ist ein einfaches und wirksames „Therapeutikum“ im Umgang mit kranken und älteren Menschen wie auch für die eigene Stressbewältigung. Dass schon die richtige Einstellung und einfache Mittel genügen, um Humor im Alltag von Gesundheitsberufen zu leben, zeigt dieses Buch. In diesem Buch lernen Gesundheitsberufe die Instrumente des Humors kennen, wie sie Humor in der Interaktion mit Patienten, im[…].

Contents

Fields of interest
Nursing, Nursing Management / Nursing Research; Popular Science in Medicine and Health; Physiotherapy; Personality and Social Psychology

Target groups
Professional/practitioner

Type of publication
Professional book

Online orders shipping within 2-3 days.

2012, XI, 134 S. 7 Abb. (Top im Gesundheitsjob) Softcover
9,30 €
ISBN 978-3-642-24944-0

L’angio-TC dell’aorta

Il recente sviluppo tecnologico degli scanner TC e dei sistemi di visualizzazione delle immagini ha consentito un imponente ingresso della tecnica di angio-TC nella pratica clinico-diagnostica, conferendole un ruolo di primo piano sia nello studio in elezione che in situazioni di urgenza/ emergenza, grazie ad immagini di qualità ottimale e di facile interpretazione. Il presente volume intende offrire un’introduzione alle tecniche di imaging vascolare con la massima semplicità e praticità possibili, cercando di riportare in maniera esaustiva le basi della tecnica d’esame, le principali patologie riscontrabili nella pratica clinica e i quadri normali e patologici da riconoscere nello studio post-operatorio. L’angio-TC dell’aorta si propone quindi come utile strumento di aggiornamento per tutte le figure professionali diversamente coinvolte nelle diagnosi e nella gestione delle patologie aortiche: dal radiologo, al chirurgo, al tecnico di radiologia.

Features
Il recente sviluppo tecnologico degli scanner TC e dei sistemi di visualizzazione delle immagini ha consentito un imponente ingresso della tecnica di angio-TC nella pratica clinico-diagnostica, conferendole un ruolo di primo piano sia nello studio in elezione che in situazioni di urgenza/ emergenza, grazie ad immagini di qualità ottimale e di facile interpretazione. Il presente volume intende offrire[…].

Contents
Introduzione.- Tecnica d’esame.- Patologia malformativa.- Sintomi aortiche acute e patologia traumatica.- Patologia aterosclerotica e aneurismatica imaging post-operatorio.- Bibliografia.

Fields of interest
Medicine (general)

Target groups
Graduate

Type of publication
Monograph

Online orders shipping within 2-3 days.

2012, VIII, 44 pagg. (Springer ABC) Softcover
19,18 €
Male Infertility
Contemporary Clinical Approaches, Andrology, ART & Antioxidants

A ground-breaking contribution to the literature, Male Infertility: Contemporary Clinical Approaches, Andrology, ART & Antioxidants offers a comprehensive review of well-established, current diagnostic and treatment techniques for male infertility. This state-of-the-art, evidence-based resource incorporates new multidisciplinary and complementary medicine approaches to create a first-of-its-kind guide to treatment strategies involving antioxidants for male infertility. Designed as an easily accessible practical reference for daily use, Male Infertility: Contemporary Clinical Approaches, Andrology, ART & Antioxidants provides a high quality guide for urologists, reproductive endocrinologists, embryologists, andrologists, biologists and research scientists interested in the role that antioxidants play in male infertility.

Features
A ground-breaking contribution to the literature, Male Infertility: Contemporary Clinical Approaches, Andrology, ART & Antioxidants offers a comprehensive review of well-established, current diagnostic and treatment techniques for male infertility. This state-of-the-art, evidence-based resource incorporates new multidisciplinary and complementary medicine approaches to create a first-of-its-kind guide to treatment strategies involving antioxidants for male infertility.

Contents

Fields of interest
Urology / Andrology; Endocrinology; Reproductive Medicine; Developmental Biology; Cell Biology; Obstetrics / Perinatology

Target groups
Professional/practitioner

Type of publication
Professional/practitioner

Usually dispatched within 3 to 5 business days.

Management of Severe Traumatic Brain Injury
Evidence, Tricks, and Pitfalls

In order to reduce the number of deaths from severe head injuries, systematic management is essential. This book is a practical, comprehensive guide to the treatment of patients (both adults and children) with such injuries, from the time of initial contact through to the rehabilitation center. Sections are devoted to prehospital treatment, admission and diagnostics, acute management, and neurointensive care and rehabilitation. Evidence-based recommendations are presented for each diagnostic and therapeutic measure, and tips, tricks, and pitfalls are highlighted. Throughout, the emphasis is on the provision of sound clinical advice that will maximize the likelihood of an optimal outcome. Helpful flowcharts designed for use in daily routine are also provided. The authors are all members of the Scandinavian Neurotrauma Committee and have extensive practical experience in the areas they write about.

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Contents
Prehospital treatment and initial contact. - Admission and diagnostics. - Acute management. - Neurointensive care including neurorehabilitation. - Additional aspects.

Fields of interest
Intensive / Critical Care Medicine; Neurosurgery; Anesthesiology; Emergency Medicine

Target groups
Professional/practitioner

Type of publication
Professional book

Usually dispatched within 3 to 5 business days.

Marke >Ich< - Selbstmarketing in Gesundheitsberufen

Viele, die in Gesundheitsberufen tätig sind, gehen davon aus, dass ihre Arbeit, ihre Qualitäten, Kompetenzen und Fertigkeiten ausreichend dokumentiert. Das ist sicher richtig – dennoch ist es von nicht zu unterschätzendem Wert, wenn Sie in der Lage sind, angemessen ins Gespräch zu bringen, was Sie gut machen. In diesem Buch lernen Sie professionell Öffentlichkeit in eigener Sache herauszustellen, Ihre Sache am Gegenüber orientiert zu präsentieren und Ihre Persönlichkeit und Ihren Erfolg ins rechte Licht zu rücken. Ein Buch für alle, die sich als Marke entdecken und positionieren möchten.

Features
Selbstmarketing: Tue Gutes und rede darüber Angehörige aus Gesundheitsberufen leisten hervorragende Arbeit - wirksam darüber reden tun die wenigsten. Dieses Buch ist für alle, die sich noch besser mit ihren Qualitäten und Fähigkeiten ins Gespräch bringen möchten: Lernen Sie, sich professionell zu präsentieren und Ihre Persönlichkeit ins rechte Licht zu rücken. Lesen Sie zu [...]
OP-Pflege Prüfungswissen

Fragen und Antworten rund um den OP

Für eine erfolgreiche Vorbereitung auf die Prüfung! Das Buch führt Prüflinge der Fachweiterbildung im Operationsdienst und Operationstechnische Assistenten (OTA) durch eine strukturierte und zeiteffektive Prüfungsvorbereitung. Zu allen prüfungsrelevanten Themen werden Fragen gestellt. Durch die Vielfalt an Übungen z.B. Lückentexte, Bildbeschriftungen, Definitionen, Beschreibungen, Wahr/Falsch-Fragen und Multiple Choice-Fragen erhält der Leser Abwechslung im Lernen und Wiederholen.


Features

Fragen und Antworten rund um den OP. Kennen Sie das spezielle Instrumentarium für die Laparotomie und ihre Verwendung? Was ist unter dem Begriff „linksseitige Aneurysmektomie“ zu verstehen? Sicher in die Prüfung! Das Buch führt Prüflinge der Fachweiterbildung im Operationsdienst und Operationstechnische Assistenten (OTA) durch eine strukturierte und zeiteffektive […]

Contents


Fields of interest

Nursing Management / Nursing Research; Nursing: Intensive Care / Critical Care Medicine; Medicine (general); Medical Education; Assessment, Testing and Evaluation

Target groups

Professional/practitioner

Type of publication

Professional book

Online orders shipping within 2-3 days.

2012, XVI, 484 S. 106 Abb. Softcover

18,64 €
ISBN 978-3-642-24926-6

L. Schmetterer, Medical University of Vienna, Austria; J. Kiel, University of Texas, San Antonio, TX, USA (Eds.)

Ocular Blood Flow

Adequate blood supply to the eye is an important prerequisite for normal visual function. Over the past 40 years our knowledge of ocular blood flow regulation has improved significantly. This reader-friendly textbook provides a comprehensive overview of the current knowledge of ocular blood flow. Lavishly illustrated, it evaluates the wide array of methods that have been used to measure ocular blood flow. Furthermore, it not only offers the reader an evidence-based summary of the physiological and pharmacological properties of ocular blood flow regulation, but also demonstrates the ocular blood flow abnormalities in different vascular diseases. This book will enhance the understanding of all who are interested in learning more about ocular blood flow in health and disease.

Features

Adequate blood supply to the eye is an important prerequisite for normal visual function. Over the past 40 years our knowledge of ocular blood flow regulation has improved significantly. This lavishly illustrated textbook provides a comprehensive overview of the current knowledge of ocular blood flow and body shunting and offers the wide array of methods for measuring ocular blood flow and offers the wide array of methods for measuring ocular blood flow and offering the […]

Contents

Anatomy of the Ocular Vasculature.
- Determination of Ocular Blood Flows with the Microsphere Method.
- Measurement of retinal vessel diameters.
- Laser Doppler Techniques for Ocular Blood Velocity and Flow.
- Color Doppler Imaging.
- Other approaches.
- Systemic determinants.
- Local determinants.
- Neural Control of Ocular Blood Flow.
- Endothelial control.
- Retinal ischemia in relation to glaucoma and neuroprotection.
- Ocular blood flow in diabetes: contribution to the microvascular […]

Fields of interest

Ophthalmology; Pharmacology / Toxicology; Human Physiology; Human Genetics; Biomedicine (general)

Target groups

Professional/practitioner

Type of publication

Contributed volume

Online orders shipping within 2-3 days.

2012, VI, 457 p. 227 illus., 93 in color. Hardcover

179,95 €
ISBN 978-3-540-69468-7

A.I. Meyer, Administration for Children and Families, Washington, DC, USA; Th.P. Gullotta, Child and Family Agency of Southeastern Connecticut, New London, CT, USA (Eds.)

Physical Activity Across the Lifespan

Prevention and Treatment for Health and Well-Being

The statistics are disturbing: steadily rising numbers of sedentary overweight children and obese teens, and a generation looking at a shorter life expectancy than their parents’. But while it may be obvious that physical fitness benefits both the mind and body, a growing research base is supplying evidence of why this is so, and how these benefits may be reproduced in greater numbers. Physical Activity Across the Lifespan makes a clear, scientific case for exercise, sports, and an active lifestyle in preventing illness and establishing lifetime health habits at both the individual and the population levels. The focus is on key aspects of physical/mental well-being — weight, mood, and self-regulation — and the role of physical activity in public health and school-based interventions targeting these areas. Contributors review definitional and measurement issues salient to understanding what physical activity is, to analyzing benefits of participation, and to implementing effective interventions. Also [...] 

Features

The statistics are disturbing: steadily rising numbers of sedentary overweight children and obese teens, and a generation looking at a shorter life expectancy than their parents’. But while it may be obvious that physical fitness benefits both the mind and body, a growing research base is supplying evidence of why this is so, and how these benefits may be reproduced in greater [...] 

Contents


Fields of interest

Health Promotion and Disease Prevention; Child and School Psychology; Health Psychology; Medicine (general); Educational Policy and Politics; Social Policy

Target groups

Research

Type of publication

Contributed volume

Usually dispatched within 3 to 5 business days.


139,95 €
Praxis des Intensivtransports

Für Rettungsdienst und Pflegepersonal


Features

Patienten, die auf einer Intensivstation liegen, sollten im Idealfall nicht transportiert werden. Aufgrund veränderter Organisationssstrukturen im Gesundheitswesen mit Zentrenbildung und zunehmender Spezialisierung von Krankenhäusern, werden Intensivtransporte aber immer häufiger erforderlich. Der Transport von einer in die andere Klinik erfolgt meist mit dem Auto oder dem Flugzeug. Beim Transport eines...

Contents


Fields of interest

Anesthesiologie; Intensive / Critical Care Medicine; Emergency Medicine

Target groups

Professional/practitioner

Type of publication

Professional book

Online orders shipping within 2-3 days.

2012. XX, 316 S. 60 Abb. Softcover

23,92 €
ISBN 978-3-642-21613-8

Primary Liver Cancer

Surveillance, Diagnosis and Treatment

Primary Liver Cancer: Surveillance, Diagnosis and Treatment focuses on the many therapies rapidly evolving to assist with controlling hepatocellular carcinoma as well as emerging technologies to assist in early diagnosis as well as prevention. All chapters are written by experts in their fields and include the most up to date information for diagnosis, treatment, surveillance, epidemiology, staging, recurrence and prevention. This volume will serve as a useful resource for clinical gastroenterologists, hepatologists, oncologists, pathologists, and physicians who treat patients with chronic liver disease and hepatocellular carcinoma.

Features

Primary Liver Cancer: Surveillance, Diagnosis and Treatment focuses on the many therapies rapidly evolving to assist with controlling hepatocellular carcinoma as well as emerging technologies to assist in early diagnosis as well as prevention. All chapters are written by experts in their fields and include the most up to date information for diagnosis, treatment, surveillance, epidemiology, staging, ...

Contents

Hepatocellular Carcinoma: Etiology and Natural History. - Surveillance for Hepatocellular Carcinoma. - Radiologic Diagnosis of Hepatocellular Carcinoma. - Pathology of Hepatocellular Carcinoma. - Differential Diagnosis of Focal Hepatic Lesions. - Paraneoplastic Syndromes. - Hepatocellular Carcinoma in Children. - Staging of Hepatocellular Carcinoma. - Liver Anatomy and Function in the Planning of Hepatic Interventions. - Treatment of HCC. - Resection, Local-Regional Therapy, Systemic therapy and Liver Transplantation. - Recurrence - Prevention and Management. - The Impact of Treating Chronic Liver...

Fields of interest

Gastroenterology; Hepatology; Oncology; Pathology; Primary Care Medicine

Target groups

Professional/practitioner

Type of publication

Contributed volume

Usually dispatched within 3 to 5 business days.

2012. XI, 295 p. 61 illus., 29 in color. (Clinical Gastroenterology) Hardcover

149,95 €
ISBN 978-1-61779-862-7

Principles of Renal Physiology

A good knowledge of renal physiology is essential to the understanding of many disease states. The purpose of the book is to set out the principles of renal physiology and normal renal function. Now in its 30th year of continuous publication, this new edition offers a logical progression through renal physiology and pathophysiology. In addition, the anatomy, physiology, pharmacology and pathology of the kidney are covered – making it highly suitable for system based courses. This 5th edition has been extensively revised and features a wealth of new and widely accepted information about kidney function. This includes our understanding of the role of the glomus, and structural proteins in glomerular filtration; details of tubular transport, tight junctions and paracellular transport; and an update of the loops of Henle functioning. Principles of Renal Physiology, 5th Edition is a concise and easily readable text ideal for undergraduate medical and medical science students.

Features

A good knowledge of renal physiology is essential to the understanding of many disease states. The purpose of the book is to set out the principles of renal physiology and normal renal function. Now in its 30th year of continuous publication, this new edition offers a logical progression through renal physiology and pathophysiology. In addition, the anatomy, physiology, ...

Contents


Fields of interest

Nephrology; Human Physiology

Target groups

Professional/practitioner

Type of publication

Professional book

Usually dispatched within 3 to 5 business days.

2012. XV, 204 p. 78 illus., 31 in color. Softcover

49,95 €
ISBN 978-1-4614-3784-0
Principles of Research Methodology
A Guide for Clinical Investigators

Principles of Research Methodology: A Guide for Clinical Investigators is the definitive, comprehensive guide to understanding and performing clinical research. Designed for medical students, physicians, basic scientists involved in translational research, and other health professionals, this indispensable reference also addresses the unique challenges and demands of clinical research and offers clear guidance in becoming a more successful member of a medical research team and critical reader of the medical research literature. The book covers the entire research process, beginning with the conception of the research problem to publication of findings. Principles of Research Methodology: A Guide for Clinical Investigators comprehensively and concisely presents concepts in a manner that is relevant and engaging to read. The text combines theory and practical application to familiarize the reader with the logic of research design and hypothesis construction, the importance of research planning, the [...]

Features
Principles of Research Methodology: A Guide for Clinical Investigators is the definitive, comprehensive guide to understanding and performing clinical research. Designed for medical students, physicians, basic scientists involved in translational research, and other health professionals, this indispensable reference also addresses the unique challenges and demands of clinical research and offers [...]}

Contents

Fields of interest
Oncology; Cardiology; Internal Medicine; Endocrinology; Neurology

Target groups
Professional/practitioner

Type of publication
Contributed volume

Usually dispatched within 3 to 5 business days.

2012. XVII, 461 p. 380 illus., 80 in color. With online files/update. (Diagnostic Imaging) Hardcover

149,95 €
ISBN 978-1-4614-3359-0

Radiation Dose from Multidetector CT

Computed tomography (CT) is a powerful technique providing precise and confident diagnoses. The burgeoning use of CT has resulted in an exponential increase in collective radiation dose to the population. Despite investigations supporting the use of lower radiation doses, surveys highlight the lack of proper understanding of CT parameters that affect radiation dose. Dynamic advances in CT technology also make it important to explain the latest dose-saving strategies in an easy-to-comprehend manner. This book aims to review all aspects of the radiation dose from CT and to provide simple rules and tricks for radiologists and radiographers that will assist in the appropriate use of CT technique. The second edition includes a number of new chapters on the most up-to-date strategies and technologies for radiation dose reduction while updating the outstanding contents of the first edition. Vendor perspectives are included, and an online image gallery will also be available to readers.

Features
Computed tomography (CT) is a powerful technique providing precise and confident diagnoses. Close to 65 million CT examinations are performed each year in the United States alone, an astonishing number achieved with an annual double digit growth rate over the past 30 years. The burgeoning use of CT has resulted in an exponential increase in collective radiation dose to the population. Despite investigations [...]}

Contents

Fields of interest
Imaging / Radiology; Diagnostic Radiology; Pediatrics; Neuroradiology; Internal Medicine

Target groups
Professional/practitioner

Type of publication
Contributed volume

Online orders shipping within 2-3 days.

2012. XVIII, 650 p. 380 illus., 80 in color. With online files/update. (Diagnostische Radiologie) Hardcover

269,00 €
ISBN 978-3-642-24534-3

Recherches sur les Origines et la Formation de la Médecine Traditionnelle Chinoise

Un guide de référence du Classique de l’Intérieur de l’Empereur Jaune Huang Di Nei Jing et de ses origines

Cet ouvrage présente le Corpus médical de l’Empereur Jaune, le Huang Di Nei Jing, un ensemble de textes chinois compilés il y a 2000 ans environ. Il s’agit d’une œuvre composite, une recension qui peut être considérée comme l’équivalent extrême-oriental du Corpus médical d’Hippocrate. Ces textes ont eu une grande importance culturelle et ont été à la base de tous les autres ouvrages chinois et d’Extrême-Orient, d’acupuncture et de moxibustion. Le livre traite spécialement de l’histoire ancienne de ce corpus, à partir de son origine jusqu’à la fin du Moyen Âge chinois (+581) au travers d’une approche didactique. L’ouvrage proposé est enrichi de deux courts essais finaux : l’un sur le Corps hippocratique de la Grèce Antique et l’autre présentant les traductions en langues occidentales de ce Corpus. Il s’adresse aux étudiants, aux médecins spécialisés en médecine traditionnelle chinoise et à toute personne intéressée par cette thématique.

Features
Cet ouvrage présente le Corpus médical de l’Empereur Jaune, le Huang Di Nei Jing, un ensemble de textes chinois compilés il y a 2000 ans environ. Il s’agit d’une œuvre composite, une recension qui peut être considérée comme l’équivalent extrême-oriental du Corpus médical d’Hippocrate. Ces textes ont eu une grande importance culturelle et ont été à la base de tous les autres ouvrages [...]}

Fields of interest
Medicine (general); Complementary & Alternative Medicine; History of Medicine

Target groups
Professional/practitioner

Type of publication
Reference work

Online orders shipping within 2-3 days.

2012. Env. 215 p. (Médecines d’Asie: Savoirs et Pratiques) Softcover

42,06 €
Reflex seizures and related epileptic syndromes

Reflex seizures and related epileptic syndromes provides a concise, authoritative guide to this category of epilepsies. The clinical manifestations, aetiology, diagnosis, prognosis and management of the main types of visually induced seizures and epilepsies and also the main types of complex reflex epilepsies are described. C. P. Panayiotopoulos is an internationally renowned leader and expert in the diagnosis, treatment and management of epilepsy. This pocket-sized reference work will be a valuable resource for all those involved in the care of patients with epileptic seizures.

Features
Reflex seizures and related epileptic syndromes provides a concise, authoritative guide to this category of epilepsies. The clinical manifestations, aetiology, diagnosis, prognosis and management of the main types of visually induced seizures and epilepsies and also the main types of complex reflex epilepsies are described. C. P. Panayiotopoulos is an internationally renowned leader and expert [...] (Continued)

Contents

Fields of interest
Neurology; Internal Medicine; Pediatrics

Target groups
Professional/practitioner

Type of publication
Monograph

Online orders shipping within 2-3 days.

2012. 484 p. (Approche pratique en orthopédie-traumatologie) Softcover
130,84 €

Réparations tissulaires à la jambe
De l’os...à la peau

Features
Dans cet ouvrage, les auteurs témoignent de leur attachement de chirurgiens réparateurs à une prise en charge globale et complète des traumatismes ouverts du segment jambier. Ils réservent une place aussi importante à la réparation osseuse et aux procédés d’aide à la consolidation, en plein essor (greffes osseuses, BMP, moelle osseuse...), qu’à la réparation cutanée, intégrant la chirurgie des lambeaux et des [...] (Continued)

Contents

Fields of interest
Neurology; Internal Medicine; Pediatrics

Target groups
Professional/practitioner

Type of publication
Monograph

Online orders shipping within 2-3 days.

2012. XVI, 62 p. 12 illus. in color. Softcover
24,95 €

Skills-Training bei Borderline- und Posttraumatischer Belastungsstörung


Contents

Fields of interest
Psychotherapy; Psychiatry; Clinical Psychology; Behavioral Therapy; Personality and Social Psychology; Pedagogic Psychology

Target groups
Professional/practitioner

Type of publication
Monograph

Online orders shipping within 2-3 days.

2012. XVI, 318 S. 66 Abb. Mit CD-ROM. Softcover
45,41 €
ISBN 978-3-7091-0934-2
Sleep Loss and Obesity

Intersecting Epidemics

Sleep Loss and Obesity: Intersecting Epidemics represents a major contribution to the field of sleep medicine. It is a comprehensive review of the neurobiology of sleep, circadian timing and obesity, the deleterious effects of sleep loss and obesity on health, and the worrisome associated social and medical costs in a range of patient populations and overall to society. The number of individuals who are obese has reached alarming levels. As a result, the incidence of Type 2 diabetes, cardiovascular disorders, heart disease, and kidney failure have also increased. The surgeon general estimates that the total annual cost of obesity in the US is about $177 billion. This cost is expected to escalate significantly because the number of overweight and obese children is increasing rapidly. Indeed, the new generation is expected to have a shorter life span than their parents. In addition, sleep loss is emerging as an important contributing factor to obesity. People who sleep less or are sleep deprived are...[]

Contents

- Circadian Clock Genes and the Regulation of Sleep
- Clock Genes and Energy Metabolism
- Neural Circuits Underlying Sleep and Waking
- Feeding as a Reward Mechanism
- Plasticity of Brain Feeding Circuits in Response to Food
- The Neurogenetics of Energy Balance
- Short Sleep and Obesity in Children
- Circadian Misalignment and Sleep Disruption in Shift Work: Implications for Fatigue and Risk of Weight Gain and Obesity
- Sleep Apnea and Obesity: The Connection Between Sleep Loss and Obesity
- Sleep Disturbances: Impact on Risk and Severity of Diabetes
- Insufficient Sleep and...[]

Fields of interest

- Neurology
- Endocrinology
- Pneumology/Respiratory System
- Internal Medicine
- Neurosciences
- Psychiatry

Target groups

- Professional/practitioner

Type of publication

Contributed volume

Usually dispatched within 3 to 5 business days.

2012. XIV, 440 p. 89 illus., 43 in color. (Healthcare Delivery in the Information Age, Vol.) Hardcover
149,95 €
ISBN 978-1-4614-3494-8

Technology Enabled Knowledge Translation for eHealth

Principles and Practice

Rapid progress in health research has led to generation of new knowledge and innovative practices in management of illness. This has resulted in a significant challenge for health professionals: if today we discovered a new therapy through research, when will this discovery be regularly prescribed or utilized to treat all patients suffering from this condition? Knowledge translation is the non-linear and often complicated process of translating knowledge into routine health practices. Technology enabled knowledge translation (TEKT) is the use of information and communication technologies (ICT) to accelerate knowledge translation. With the ubiquity of the internet, the proliferation of different approaches in communication and social networking, and the continuously improving technologies from netbooks to smartphones, there are rich opportunities for TEKT in health education, service delivery, and research.

Features

Better health for the world’s people is a moral imperative. Digital innovation linking the globe is a growing reality. Intersecting these critical imperatives, Digital innovation linking the globe...[]

Contents

- Overview of TBI
- Imaging Diagnosis of TBI
- Neurocognitive Assessment of mTBI
- Management of Moderate and Severe TBI
- Sports Concussion
- Blast-Related Concussion
- Sleep/Wake Disturbances and Fatigue following mTBI
- Vestibular Consequences of mTBI
- Post-Traumatic Headache
- Seizures after TBI
- Endocrine Disturbances following TBI
- Confronting Mild TBI and Co-occurring PTSD Symptoms in Combat Deployed Service Members
- Behavioral and Psychiatric Comorbidities of TBI
- Rehabilitation of TBI
- Interventions to Improve Cognitive Functioning after TBI
- Current Diagnostic and...[]

Fields of interest

- Neurology
- General Practice / Family Medicine
- Psychiatry

Target groups

- Professional/practitioner

Type of publication

Contributed volume

Usually dispatched within 3 to 5 business days.

2012. XIV, 339 p. 63 illus., 20 in color. Hardcover
149,95 €
Ultrasonic-guided Musculoskeletal Procedures

The Upper Limb

As it is quick, inexpensive, and non-invasive, ultrasonography is the modality of choice for guidance of interventional procedures in the soft tissues. Furthermore, the rising mean age of the general population is being accompanied by increasing demand among patients for minimally invasive procedures to treat painful chronic and degenerative syndromes of the musculoskeletal system. This handbook is a clear, practical guide to ultrasonic-guided minimally invasive treatments of musculoskeletal pain in the upper limb. Each chapter is clearly structured, with brief but comprehensive descriptions of the disease to be treated and of the materials and drugs needed. High-quality images and easy-to-follow schemes explain the best approach in each situation, and practical tips and tricks of value in daily clinical routine are provided.

Features
As it is quick, inexpensive, and non-invasive, ultrasonography is the modality of choice for guidance of interventional procedures in the soft tissues. Furthermore, the rising mean age of the general population is being accompanied by increasing demand among patients for minimally invasive procedures to treat painful chronic and degenerative syndromes of the musculoskeletal system. This handbook is a clear, practical guide to ultrasonic-guided minimally invasive treatments of musculoskeletal pain in the upper limb. Each chapter is clearly structured, with brief but comprehensive descriptions of the disease to be treated and of the materials and drugs needed. High-quality images and easy-to-follow schemes explain the best approach in each situation, and practical tips and tricks of value in daily clinical routine are provided.

Contents
Vaccinia Virus and Poxvirology

Methods and Protocols

Since the first edition of Vaccinia Virus and Poxvirology: Methods and Protocols was published, a number of important events related to poxvirology have occurred, such as FDA approval of a culture-based live smallpox vaccine and the vaccination of large numbers of U.S. military and relatively large numbers of U.S. civilians. Novel anti-poxvirus therapeutics have been developed and have been used in emergency settings. The second edition of Vaccinia Virus and Poxvirology expands upon the previous edition with entirely new sets of protocols. Written in the highly successful Methods in Molecular Biology™ series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and key tips on troubleshooting and avoiding known pitfalls. Authoritative and practical, Vaccinia Virus and Poxvirology: Methods and Protocols, Second Edition seeks to aid scientists in continuing to study poxviruses using new [...]

Features

Since the first edition of Vaccinia Virus and Poxvirology: Methods and Protocols was published, a number of important events related to poxvirology have occurred, such as FDA approval of a culture-based live smallpox vaccine and the vaccination of large numbers of U.S. military personnel and relatively large numbers of U.S. civilians. Novel anti-poxvirus therapeutics have been developed and have been [...]

Contents


Fields of interest

Infectious Diseases; Virology

Target groups

Professional/practitioner

Type of publication

Contributed volume

Usually dispatched within 3 to 5 business days.

Ventricular Geometry in Post-Myocardial Infarction Aneurysms

Implications for Surgical Ventricular Restoration

The topic of heart failure although extensively researched and reported, has several gray areas. This is especially seen in determining strategies for combating advanced heart failure. The global burden of ischemic heart disease is increasing at an alarming rate to almost pandemic proportions. Even in the presence of state-of art technology for prompt and successful coronary reperfusion, the population progressing to ischemic cardiomyopathy is substantial. The treatment strategies for ischemic cardiomyopathy do not always ensure optimal clinical results, the reasons for which are varied. The proper patient selection is vital as is the tailoring of suitable therapy. The approach is thus multi-pronged, of which surgical ventricular restoration (SVR) has a definite role. Despite various randomized studies like the STICH-hypothesis 2, where there was a huge selection bias, with patients subjected to an erroneous technique of SVR, with inadequate ventricular remodelling assessment. The present need [...]

Features

Following a transmural myocardial infarctions (MI), the resultant dilated, aneurismal ventricle can make patient management difficult in those ineligible for cardiac transplantation. This mechanical complication leads to refractory heart failure and continues to be a persisting problem for clinical management in both the developed and developing countries of the world. It continues to exist despite [...]

Contents


Fields of interest

Cardiac Surgery; Cardiology; Medicine (general)

Target groups

Professional/practitioner

Type of publication

Monograph

Usually dispatched within 3 to 5 business days.

Vorfußchirurgie

Die Vorfußchirurgie in 2. Auflage: Bewährtes und noch mehr Neues für Sie!

Die Vorfußchirurgie in 2. Auflage: Bewährtes und noch mehr Neues für Sie!

Die Vorfußchirurgie in 2. Auflage: Bewährtes und noch mehr Neues für Sie!

Die Vorfußchirurgie in 2. Auflage: Bewährtes und noch mehr Neues für Sie!

Die Vorfußchirurgie in 2. Auflage: Bewährtes und noch mehr Neues für Sie!
Major Aspects of Chinese Religion and Philosophy

Dao of Inner Saint and Outer King

The book addresses academically the major aspects of Chinese religion and philosophy, designated as the doctrine of being internal sage and external king. The perspective applied is the integration between western and Chinese scholarship and English readers may gain an easy and interesting access to Chinese intellectual tradition, distinctive itself in a harmony between being holy and secular in any mundane human being to the western tradition of "Give to Caesar what is Caesar’s, and to God what is God’s." By this contrast the intellectual charms and spiritual merits of Chinese tradition will be better appreciated, hence conducive to the much anticipated dialogues between western and eastern civilizations at this globalized yet conflicted world.

Features
"In his capacious work Major Aspects of Chinese Religion and Philosophy - Dao of Inner Saint and Outer King Shan Chun does not only explore the innate relations between Confucianism, Daoism and Buddhism since their origins till its recent developments. By relating the three major traditions of Chinese philosophy he also attempts to concentrate the New-Confucianism on its unified origins and [...]"

Contents
B. Bhushan, The Ohio State University, Columbus, OH, USA

Biomimetics
Biospired Hierarchical-Structured Surfaces for Green Science and Technology

This book presents an overview of the general field of biomimetics - lessons from nature. It presents various examples of biomimetics, including roughness-induced superomniphobic surfaces which provide functionality of commercial interest. The major focus in the book is on lotus effect, rose petal effect, shark skin effect, and gecko adhesion. For each example, the book first presents characterization of an object to understand how a natural object provides functionality, followed by modeling and then fabrication of structures in the lab using nature’s route to verify one’s understanding of nature and provide guidance for development of optimum structures. Once it is understood how nature does it, examples of fabrication of optimum structures using smart materials and fabrication techniques, are presented. Examples of nature inspired objects are also presented throughout.

Features
This book presents an overview of the general field of biomimetics - lessons from nature. It presents various examples of biomimetics, including roughness-induced superomniphobic surfaces which provide functionality of commercial interest. The major focus in the book is on lotus effect, rose petal effect, shark skin effect, and gecko adhesion. For each example, the book first presents characterization of an [...]
Elektrodynamik
Lehrbuch zur Theoretischen Physik II

Dieses Lehrbuch gibt eine Einführung in die Elektrodynamik, wie sie an der Universität im Zyklus "Theoretische Physik" angeboten wird. Besonderer Wert hat der Autor auf eine gut lesbare, verständliche und überschaubare Darstellung gelegt. Die einzelnen Schritte sind so ausführlich dargestellt, dass der Leser sie ohne größere Schwierigkeiten nachvollziehen kann. Der vorbereitende Teil I stellt die für das Folgende benötigten mathematischen Hilfsmittel in kompakter Form zusammen. Es schließen sich die Behandlung der Elektrostastik (Teil II) und der Magnetostatik (Teil III) an. Dabei werden ausgebildet von experimentellen Befunden die Feldgleichungen motiviert und die verschiedenen Methoden zu ihrer Lösung ausführlich diskutiert. Hierauf aufbauend behandelt der Teil IV die Maxwellsche Theorie, die die Kopplung von elektrischen und magnetischen Feldern im zeitabhängigen Fall beschreibt. Die Eigenschaften der Maxwellgleichungen werden untersucht, insbesondere die allgemeine Lösung und das Verhalten unter [...]

Features
Dieses Lehrbuch gibt eine Einführung in die Elektrodynamik, wie sie an der Universität im Zyklus "Theoretische Physik" angeboten wird. Besonderer Wert hat der Autor auf eine gut lesbare, verständliche und überschaubare Darstellung gelegt. Die einzelnen Schritte sind so ausführlich dargestellt, dass der Leser sie ohne größere Schwierigkeiten nachvollziehen kann. Der vorbereitende Teil I stellt die für das [...]
From the Atomic Bomb to the Landau Institute

Autobiography. Top Non-Secret

The book is an expanded autobiography of the famous theoretical physicist Isaak Khalatnikov. He worked together with L.D. Landau at the Institute for Physical Problems leading by P.L. Kapitza. He is the co-author of L.D. Landau in a number of important works. They worked together in the frame of the so-called Nuclear Bomb Project. After the death of L.D. Landau, I.M. Khalatnikov initiated the establishment of the Institute for Theoretical Physics, named in honour of L.D. Landau, within the USSR Academy of Sciences. He headed this institute from the beginning as its Director. The institute inherited almost all traditions of the Landau scientific school and played a prominent role in the development of theoretical physics. So, this is a story about how the institute was created, how it worked, and about the life of the physicists in the ‘golden age’ of the Soviet science. A separate chapter is devoted to today’s life of the institute and the young generation of physicists working now in science.

Features

The book is an expanded autobiography of the famous theoretical physicist Isaak Khalatnikov. He worked together with L.D. Landau in a number of important works. They worked together in the frame of the so-called Nuclear Bomb Project. After the death of L.D. Landau, I.M. Khalatnikov initiated the establishment of the Institute for Theoretical Physics, named in honour of L.D. Landau, within the USSR Academy of Sciences. He headed this institute from the beginning as its Director. The institute inherited almost all traditions of the Landau scientific school and played a prominent role in the development of theoretical physics. So, this is a story about how the institute was created, how it worked, and about the life of the physicists in the ‘golden age’ of the Soviet science. A separate chapter is devoted to today’s life of the institute and the young generation of physicists working now in science.

Contents

THE BEGINNING.- THE WAR.- A SPECIAL PROBLEM IN THE INSTITUTE OF PHYSICAL PROBLEMS.- MY TEACHER.- THE INSTITUTE.- WINDOW TO THE WORLD.- TODAY.

Fields of interest

History and Philosophical Foundations of Physics; Physics (general); Strongly Correlated Systems, Superconductivity; Nuclear Fusion; Classical and Quantum Gravitation, Relativity Theory

Target groups

Research

Type of publication

Monograph

Usually dispatched within 3 to 5 business days.

2012. XII, 214 p. 55 illus., 12 in color. Hardcover

49,95 €

ISBN 978-3-642-27560-9

Handbook of Spectral Lines in Diamond

Volume 1: Tables and Interpretations

This handbook is a breakthrough in the understanding of the large number of spectral lines in diamond. Data on more than 2000 lines and bands are presented in 200 tables, including many unpublished results. With a novel organization scheme, the search for a specific line is greatly simplified as a benefit for researchers and students. In order to meet the interest in the understanding of the spectra, structure assignments for 80% of the lines are given, of which 15% only were published before. The majority of the structures for the 300 centers is explained in most cases for the first time. A key instrument in the interpretation is the analysis by donor-acceptor pair transitions. In a special chapter 95 such centers are listed and discussed, of which only two have been published before, the first one by the present author in 1994.

Features

This handbook is a breakthrough in the understanding of the large number of spectral lines in diamond. Data on more than 2000 lines and bands are presented in 200 tables, including many unpublished results. With a novel organization scheme, the search for a specific line is greatly simplified as a benefit for researchers and students. In order to meet the interest in the understanding of the spectra, structure assignments for 80% of the lines are given, of which 15% only were published before. The majority of the structures for the 300 centers is explained in most cases for the first time. A key instrument in the interpretation is the analysis by donor-acceptor pair transitions. In a special chapter 95 such centers are listed and discussed, of which only two have been published before, the first one by the present author in 1994.

Contents


Fields of interest

Spectroscopy and Microscopy; Applied Optics, Optoelectronics, Optical Devices; Characterization and Evaluation of Materials; Optical and Electronic Materials; Microwaves, RF and Optical Engineering

Target groups

Research

Type of publication

Handbook

Usually dispatched within 3 to 5 business days.

2012. XI, 467 p. Hardcover

99,95 €

ISBN 978-3-642-22214-6

Laser Diode Beam Basics, Manipulations and Characterizations

Many optical design technical books are available for many years which mainly deal with image optics design based on geometric optics and using sequential raytracing technique. Some books slightly touched laser beam manipulation optics design. On the other hand many books on laser diodes have been published that extensively deal with laser diode physics with little touching on laser diode beam manipulations and characterizations. There are some internet resources dealing with laser diode beams. However, these internet resources have not covered enough materials with enough details on laser diode beam manipulations and characterizations. A technical book concentrated on laser diode beam manipulations and characterizations can fit in to the open and provide useful information to laser diode users. Laser Diode Beam Basics, Manipulations and Characterizations is concentrated on the very practical side of the subject, it only discusses the basic physics and mathematics that are necessary for the readers.

Features

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Contents


Fields of interest

Laser Technology and Physics, Photonics; Applied Optics, Optoelectronics, Optical Devices; Microwaves, RF and Optical Engineering; Applied and Technical Physics

Target groups

Research

Type of publication

Brief

Usually dispatched within 3 to 5 business days.

2012. IX, 76 p. 63 illus. (SpringerBriefs in Physics) Softcover

49,95 €

ISBN 978-94-007-4663-3
Light Pollution

Responses and Remedies

There have been many developments in the field of light pollution over the last few years, and this second edition of ‘Light Pollution - Responses and Remedies’ will introduce them in detail. Examples include the appearance of anti-light pollution legislation in various countries, new departures in lighting design, human health implications, and the growing realization among the general public that lighting is not always a good thing. In this title, author Bob Mizon discusses the various ways in which wasted artificial light has damaged the quality of modern life, and suggest solutions. This book is for anyone who has experienced glare, discomfort, or nuisance from poorly directed lights; has wondered why we waste so much money lighting the sky; or anyone who simply wants to see the stars instead of a baleful urban glow. “Light Pollution, 2nd Edition” offers practical and inexpensive solutions to the world-wide problem of wasted artificial light, and emphasizes that light pollution is not just an...[]

Features

Light pollution is a major threat to astronomy across the entire developed world. The night sky that most of us can see bears little relationship to the spectacular vistas that our ancestors have gazed at for tens of thousands of years. It is ironic that as our understanding of the universe has improved, our ability to see it has been dramatically reduced by the skyglow of our civilization. In the [...] Contents


Astronomy; Observations and Techniques; Popular Science in Astronomy; Environmental Law / Policy / Ecostechnology; Energy Policy, Economics and Management

Target groups

Popular/general

Type of publication

Popular science

Usually dispatched within 3 to 5 business days.

Load-Pull Techniques with Applications to Power Amplifier Design

This first book on load-pull systems is intended for readers with a broad knowledge of high frequency transistor device characterization, nonlinear and linear microwave measurements, RF power amplifiers and transmitters. Load-Pull Techniques with Applications to Power Amplifier Design fulfills the demands of users, designers, and researchers both from industry and academia who have felt the need of a book on this topic. It presents a comprehensive reference spanning different load-pull measurement systems, waveform measurement and engineering systems, and associated calibration procedures for accurate large signal characterization. Besides, this book also provides in-depth practical considerations required in the realization and usage of load-pull and waveform engineering systems. In addition, it also provides procedure to design application specific load-pull setup and includes several case studies where the user can customize architecture of load-pull setups to meet any specific measurement [...] Features

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Fields of interest

Physics (general)

Target groups

Research

Type of publication

Monograph

Usually dispatched within 3 to 5 business days.

Magnetism and Superconductivity in Iron-based Superconductors as Probed by Nuclear Magnetic Resonance

Nuclear Magnetic Resonance (NMR) has been a fundamental player in the studies of superconducting materials for many decades. This local probe technique allows for the study of the static electronic properties as well as of the low energy excitations of the electrons in the normal and the superconducting state. On that account it has also been widely applied to Fe-based superconductors from the very beginning of their discovery in February 2008. This dissertation comprises some of these very first NMR results, reflecting the unconventional nature of superconductivity and its strong link to magnetism in the investigated compounds LaO$_1$–xFxFeAs and LiFeAs.

Features

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Basic Principles of NMR.- NMR in the Superconducting State.- Iron-based Superconductors.- Experimental Setup.- NMR on LaO$_1$–xFxFeAs in the Normal State.- NMR and NQR on LaO$_1$–xFxFeAs in the Superconducting State.- NMR and NQR on LiFeAs.

Fields of interest

Physics (general)

Target groups

Research

Type of publication

Ph.D. thesis

Online orders shipping within 2-3 days.

2012, XVI, 172 p. 165 illus., 39 in color. Softcover

65,37 €
ISBN 978-3-8348-2422-6


99,95 €
ISBN 978-94-007-4460-8
Mars and How to Observe It

Mars, popularly known as the Red Planet because of its distinct color, is visible with the naked eye and is one of very few planets in the Solar System in which it is possible to see weather phenomena and surface features and thus is a favorite for amateur and professional astronomers. Commercially made telescopes can reveal its dusty surface markings, brilliant polar ice caps, and atmospheric phenomena. Many of Mars’s features appear to change shape and intensity with the seasons: its polar caps grow and shrink cyclically, clouds billow above the Martian surface, and sometimes great dust storms obscure vast sections of the planet. The first part of Mars and How to Observe It sets out our current knowledge of Mars as a planet - its orbit, physical characteristics, evolution over time, and current geology. A planet-wide tour of Mars’s topography is featured, along with clearly labeled maps and close-up images of a variety of features. The second part of the book explains how amateur and practical astronomers, both amateur and professional. Known as the Red Planet because of its distinct color, it shines brightly in the skies when it is closest to the Earth every two years. Exciting to view through a telescope, this most Earth-like of planets transforms into a real world showing phases, brilliant polar ice caps, seasonal changes in its dusty desert markings, and much more.

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Contents

Fields of interest
Astronomy, Observations and Techniques; Popular Science in Astronomy; Planetology

Target groups
Popular/general

Type of publication
Popular science

Usually dispatched within 3 to 5 business days.

2012, XIX, 238 p. 199 illus., 46 in color. (Astronomers’ Observing Guides) Softcover

39,95 €
ISBN 978-1-4614-2301-0

Nonlinear Optics and Laser Emission through Random Media

Disorder is everywhere, inherently present in nature, and is commonly believed to be a synonymous with disturbance. As a consequence, the methodical and customary study of the dynamics of the electromagnetic field, both in the linear and nonlinear optical regimes, leads to that from the treatment. On the other hand, nonlinearity enriches the physical disciplines and brings them closer to reality with respect to the linear approximation. Nonlinearity allows to stimulate a wide and rich ensemble of optical responses that beautifies the role of matter in the active processes with electromagnetic fields. Independently of each other, both of these mechanisms foster localization of light. What happens when light enlightens their synergistic interaction? When pushed together, light, disorder and nonlinearity make new and intriguing phenomena emerge. This text provides a comprehensive investigation of the role of disorder in the nonlinear optical propagation both in transparent media and lasers. [...]

Features
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Contents

Fields of interest
Electronic Circuits and Devices; Soft and Granular Matter, Complex Fluids and Microfluidics; Classical Electrodynamics, Wave Phenomena

Target groups
Research

Type of publication
Monograph

Usually dispatched within 3 to 5 business days.

2012, XI, 117 p. 60 illus., 12 in color. (Springer Theses) Hardcover

99,95 €
ISBN 978-94-007-8512-4
On the Formation of the Most Massive Stars in the Galaxy

The most massive stars in the galaxy - those with more than 15 to 20 solar masses - are likely to ionize their surroundings before they reach their final mass. How can they accrete in spite of the presence of over-pressurized gas? This thesis presents results of Submillimeter Array (SMA) and Very Large Array (VLA) studies of massive star formation regions in the early stages of ionization, as well as an analysis of numerical simulations of the evolution of these young HII regions. The results favor a picture in which very massive stars form in accretion flows that are partially ionized and that keep accreting material from their environment.

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Contents
Foreword by Prof. Luis F. Rodriguez (CRyA-UNAM) and Dr. Qizhou Zhang (Harvard-Smithsonian Center for Astrophysics). - Chapter 1: Introduction to the Scientific Problem. - Chapter 2: A MSFR at the Onset of Ionization: W33A. - Chapter 3: A MSFR with young UC and HC HII Regions: G20.08N. - Chapter 4: Time Variability of HII Regions: A Signature of Accretion?. - Chapter 5: Time Variability of HII Regions in Numerical Simulations of MSFR. - Chapter 6: Conclusions. - Bibliography. - Appendix I: Radio and (Sub)millimeter Interferometers. - Appendix II: Molecular-line Emission. - Appendix III: Ionized-Gas. -

Fields of interest
Astronomy, Astrophysics and Cosmology

Target groups
Research

Type of publication
Monograph

Optical Cooling Using the Dipole Force

This thesis unifies the dissipative dynamics of an atom, particle or structure within an optical field that is influenced by the position of the atom, particle or structure itself. This allows the identification and exploration of the fundamental 'mirror-mediated' mechanisms of cavity-mediated cooling leading to the proposal of a range of new techniques based upon the same underlying principles. It also reveals powerful mechanisms for the enhancement of the radiation force cooling of micromechanical systems, using both active gain and the resonance of a cavity to which the cooled species are external. This work has implications for the cooling not only of weakly-scattering individual atoms, ions and molecules, but also for highly reflective optomechanical structures ranging from nanometre-scale cantilevers to the metre-sized mirrors of massive interferometers.

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Contents

Fields of interest
Atomic, Molecular, Optical and Plasma Physics; Laser Technology and Physics, Photonics; Low Temperature Physics

Target groups
Research

Type of publication
Monograph

Usually dispatched within 3 to 5 business days.

2012. XVI, 187 p. 59 illus., 7 in color. (Springer Theses) Hardcover
99,95 €
ISBN 978-3-642-29714-4

Particelle e interazioni fondamentali

Il mondo delle particelle
Il libro intende fornire le conoscenze teoriche e fenomenologiche di base della struttura della materia a livello subatomico, presentando in maniera coordinata concetti e caratteristiche della fisica nucleare e della fisica delle particelle. Partendo da un livello di base (nomenclatura, classificazione, tecniche di accelerazione e di rivelazione delle particelle), si passano in rassegna le proprietà delle interazioni fondamentali (elettromagnetica, debole e forte). Vengono descritti poi i risultati che confermano il Modello Standard del microcosmo, per terminare con i problemi ancora aperti. Questa seconda edizione, rivisitata, corretta e ampliata, nasce a seguito della traduzione in Inglese del libro effettuata dagli stessi autori. Oltre ad una rilettura critica e accurata di ogni paragrafo (necessaria quando si vuole esprimere in altra lingua un concetto), abbiamo inserito alcune figure nuove e una sezione che si riferisce ai primi risultati di fisica ottenuti con l'acceleratore LHC al CERN. […]

Features
Il libro intende fornire le conoscenze teoriche e fenomenologiche di base della struttura della materia a livello subatomico, presentando in maniera coordinata concetti e caratteristiche della fisica nucleare e della fisica delle particelle. Partendo da un livello di base (nomenclatura, classificazione, tecniche di accelerazione e di rivelazione delle particelle), si passano in rassegna le proprietà delle […]

Contents

Fields of interest
Particle and Nuclear Physics; Nuclear Physics, Heavy Ions, Hadrons; Elementary Particles, Quantum Field Theory; Particle Acceleration and Detection, Beam Physics; Astrophysics and Astroparticles

Target groups
Lower undergraduate

Type of publication
Undergraduate textbook

Online orders shipping within 2-3 days.

2012. Ca. 530 pagg. (Collana di Fisica e Astronomia) Softcover
30,72 €
ISBN 978-88-470-2753-4
Photomodulated Optical Reflectance
A Fundamental Study Aimed at Non-Destructive Carrier Profiling in Silicon

One of the critical issues in semiconductor technology is the precise electrical characterization of ultra-shallow junctions. Among the plethora of measurement techniques, the optical reflectance approach developed in this work is the sole concept that does not require physical contact, making it suitable for non-invasive in-line metrology. This work develops extensively all the fundamental physical models of the photomodulated optical reflectance technique and introduces novel approaches that extend its applicability from dose monitoring towards detailed carrier profile reconstruction. It represents a significant breakthrough in junction metrology with potential for industrial implementation.

Contents


Fields of interest
Semiconductors; Applied and Technical Physics

Features
One of the critical issues in semiconductor technology is the precise electrical characterization of ultra-shallow junctions. Among the plethora of measurement techniques, the optical reflectance approach developed in this work is the sole concept that does not require physical contact, making it suitable for non-invasive in-line metrology. This work develops extensively all the fundamental physical models of [...]
Semiconductor Modeling Techniques

This book describes the key theoretical techniques for semiconductor research to quantitatively calculate and simulate the properties. It presents particular techniques to study novel semiconductor materials, such as 2D heterostructures, quantum wires, quantum dots and nitrogen containing III–V alloys. The book is aimed primarily at newcomers working in the field of semiconductor physics to give guidance in theory and experiment. The theoretical techniques for electronic and optoelectronic devices are explained in detail.

Features

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Contents


Fields of interest

Semiconductors; Optical and Electronic Materials; Electronics and Microelectronics, Instrumentation; Electronic Circuits and Devices; Applied and Technical Physics; Nanoscale Science and Technology

Target groups

Research

Type of publication

Monograph

Usually dispatched within 3 to 5 business days.

2012, XI, 261 p. 120 illus., 48 in color. (Springer Series in Materials Science, Vol. 159) Hardcover

119,95 €
ISBN 978-3-642-27511-1

Space Groups (135) P42/mbc – (123) P4/mm

Structure Types

Volume 43 of Group III deals with crystallographic data of both intermetallic and classical inorganic compounds, thus forming an update of the former Landolt–Börnstein volumes III/6 (Structure Data of Elements and Intermetallic Phases) and III/7 (Crystal Structure Data of Inorganic Compounds). It does not include compounds that contain C–H bonds. Moreover, in contrast to the earlier edition the present volume presents the data in a different, more modern arrangement - known crystal structures are combined in groups according to their type of structure; each structure type is therefore represented by a complete set of crystallographic data holding for all isotypic structures, with the data comprising space group, cell parameters and atom coordinates. Remarks, descriptions and figures are provided where necessary. The present subvolume A11, which utilizes the databases TYPiX and Pauling file, forms the eleventh contribution to volume 43, which is going to be published in a series of subvolumes.[..]

Features

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Fields of interest

Physics (general); Condensed Matter Physics; Crystallography

Target groups

Research

Type of publication

Reference work

Usually dispatched within 3 to 5 business days.


3.790,00 €
ISBN 978-3-642-22846-9

Statistical Physics

An Advanced Approach with Applications

The application of statistical methods to physics is essential. This unique book on statistical physics offers an advanced approach with numerous applications to the modern problems students are confronted with. Therefore the text contains more concepts and methods in statistics than the student would need for statistical mechanics alone. Methods from mathematical statistics and stochastics for the analysis of data are discussed as well. The book is divided into two parts, focusing first on the modeling of statistical systems and then on the analysis of these systems. Problems with hints for solution help the students to deepen their knowledge. The third edition has been updated and enlarged with new sections deepening the knowledge about data analysis. Moreover, a customized set of problems with solutions is accessible on the Web at extras.springer.com.

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Contents


Fields of interest

Statistical Physics, Dynamical Systems and Complexity; Mathematical Methods in Physics; Statistics for Engineering, Physics, Computer Science, Chemistry and Earth Sciences

Target groups

Graduate

Type of publication

Graduate/advanced undergraduate textbook

Usually dispatched within 3 to 5 business days.

2012, XIV, 553 p. 140 illus. (Graduate Texts in Physics) Hardcover

60,95 €
ISBN 978-3-642-28683-4
Ten Physical Applications of Spectral Zeta Functions

Zeta-function regularization is a powerful method in perturbation theory, and this book is a comprehensive guide for the student of this subject. Everything is explained in detail, in particular the mathematical difficulties and tricky points, and several applications are given to show how the procedure works in practice, for example in the Casimir effect, gravity and string theory, high-temperature phase transition, topological symmetry breaking, and non-commutative spacetime. The formulae, some of which are new, can be directly applied in creating physically meaningful, accurate numerical calculations. The book acts both as a basic introduction and a collection of exercises for those who want to apply this regularization procedure in practice. Thoroughly revised, updated and expanded, this new edition includes novel, explicit formulas on the general quadratic, the Chowla Selberg series case, an interplay with the Hadamard calculus, and also features a fresh chapter on recent cosmological.[…]

Features
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Contents

Fields of interest
Mathematical Methods in Physics; Mathematical Physics; Quantum Field Theories; String Theory; Mathematical Applications in the Physical Sciences

Target groups
Research

Type of publication
Monograph

Usually dispatched within 3 to 5 business days.


44,95 €
ISBN 978-3-642-29404-4

The Arrows of Time
A Debate in Cosmology

The concept of time has fascinated humanity throughout recorded history, and it remains one of the biggest mysteries in science and philosophy. Time is clearly one of the fundamental building blocks of the universe and thus a deeper understanding of nature at a fundamental level also demands a comprehension of time. Furthermore, the origins of the universe are closely intertwined with the puzzle of time: Did time emerge at the Big Bang? Why does the arrow of time ‘conspire’ with the order of the initial state of the universe? This book addresses many of the most important questions about time: What is time, and is it fundamental or emergent? Why is there such an arrow of time, closely related to the initial state of the universe, and why do the cosmic, thermodynamic and other arrows agree? These issues are discussed here by leading experts, and each offers a new perspective on the debate. Their contributions delve into the most difficult research topic in physics, also describing the latest cutting.[…]

Features
The concept of time has fascinated humanity throughout history, and remains one of the biggest mysteries in science and philosophy. Yet a deeper understanding of nature at a fundamental level can only be achieved through a comprehension of this strange fourth dimension. Furthermore, the origin of the universe is closely intertwined with the puzzle of time: Did time emerge at the big bang? Why does the […]

Contents

Fields of interest
Classical and Quantum Gravitation, Relativity Theory; Philosophy of Science; Quantum Field Theories, String Theory

Target groups
Research

Type of publication
Monograph

Usually dispatched within 3 to 5 business days.

2012, V, 221 p. 16 illus. (Fundamental Theories of Physics, Vol. 172) Hardcover

99,95 €
ISBN 978-3-642-23258-9

The General Theory of Relativity
A Mathematical Exposition

The General Theory of Relativity: A Mathematical Exposition will serve readers as a modern mathematical introduction to the general theory of relativity. Throughout the book, examples, worked-out problems, and exercises (with hints and solutions) are furnished. Topics in this book include, but are not limited to: tensor analysis • the special theory of relativity • the general […]

Features
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Contents
The Innovation Butterfly

Managing Emergent Opportunities and Risks During Distributed Innovation

Product and service innovations are the result of mutually interacting creative and coordination tasks within a system that has to balance technical decisions, marketplace taste, personnel management, and stakeholder commitment. The constituent elements of such systems are often scattered across multiple firms and across the globe and constitute a complex system consisting of many interacting parts. In the spirit of the "butterfly effect", metaphorically describing the sensitivity to initial conditions of chaotic systems, this book builds an argument that "innovation butterflies" can, in the short term, take up significant amounts of effort and sap efficiencies within individual innovation projects. Such "innovation butterflies" can be prompted by external forces such as government legislation or unexpected spikes in the price of basic goods (such as oil), unexpected shifts in market tastes, or from a company manager's decisions or those of its competitors. Even the smallest change, the smallest...[

Features

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Contents


Fields of interest

Complex Networks; Complexity; Operation Research / Decision Theory; R & D / Technology Policy

Target groups

Research

Type of publication

Monograph

Usually dispatched within 3 to 5 business days.

2012. XI, 173 p. 36 illus. (Understanding Complex Systems) Hardcover

99,95 €


G.F. Bignami, IASF-INAF, Milano, Italy

We are the Martians

Connecting Cosmology with Biology

For many thousands of years, human beings have been asking themselves whether they are more frightened of being alone in the universe or of the thought that there is someone else out there. Over the past few decades, however, we have moved from imagination to action, exploring the cosmos using new techniques, often with surprising results. Numerous fascinating but little known facts have emerged – for example, that every year many rocks from Mars fall on the Earth, that one of our amino acids has been found in the coma of a comet, and that some of the known thousands of extrasolar planets are similar to our own. There are further exciting and important discoveries around the corner that will cast more light on the great enigma of how life started on Earth. In this intriguing book, one of the World's leading researchers in astrophysics and space science examines fundamental questions concerning life on Earth and the rest of the cosmos in an accessible and stimulating way.

Features

What frightens you more? Believing you are alone in the universe or rather thinking that there's someone else out there? Human beings have been asking themselves this question for many thousands of years while looking at the starry sky. Over the past few decades, however, we have moved from imagination to action, exploring the cosmos using new techniques, often with surprising results. Did you...[

Contents

Overture: Man vs. The Universe : the Match.- Let's build the Universe - light and matter.- Let's build the rest of the Universe.- Astronomy in search of alien. - Contact astronomy: the Universe invading us. - Contact astronomy: comets and their dust. - Building from bricks: what is life?. - Anyone out there?.- Coda: What remains to be discovered?.

Fields of interest

Astrobiology; Popular Science in Astronomy; Extraterrestrial Physics, Space Sciences; Cosmology

Target groups

Popular/general

Type of publication

Popular science

Usually dispatched within 3 to 5 business days.

2012. XXIII, 128 p. 22 illus. Softcover

29,95 €


P. Ball, London, UK

Why Society is a Complex Matter

Meeting Twenty-first Century Challenges with a New Kind of Science

Society is complicated. But this book argues that this does not place it beyond the reach of science that can help to explain and perhaps even to predict social behaviour. As a system made up of many interacting agents – people, groups, institutions and governments, as well as physical and technological structures such as roads and computer networks – society can be regarded as a complex system. In recent years, scientists have made great progress in understanding how such complex systems operate, ranging from animal populations to earthquakes and weather. These systems show behaviours that cannot be predicted or intuited by focusing on the individual components, but which emerge spontaneously as a consequence of their interactions: they are said to be 'self-organized'. Attempts to direct or manage such emergent properties generally reveal that 'top-down' approaches, which try to dictate a particular outcome, are ineffectual, and that what is needed instead is a 'bottom-up' approach that aims to...[

Features

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Contents


Fields of interest

Socio- and Econophysics, Population and Evolutionary Models; Methodology of the Social Sciences; Complexity; Computer Appl. in Social and Behavioral Sciences; Economic Systems; Communication Studies

Target groups

Popular/general

Type of publication

Popular science

Online orders shipping within 2-3 days.

2012. 80 p. 35 illus. in color. Softcover

14,95 €

ISBN 978-3-642-28999-6
China

Auf Tour

**Im Fokus: Entdecker**

**Die Erkundung der Welt**


**Features**

Egal ob Europa, Amerika, Asien, Afrika, Australien oder gar die Antarktis: Auf der Landkarte der Erde gibt es heute fast keine weißen Flecken mehr. Im 13. Jahrhundert sah das noch ganz anders aus. Damals waren große Teile unseres Planeten eine „Terra incognita“, um die sich zwar viele Gerüchte und Mythen rankten, von der man aber so gut wie nichts sicher wusste. Licht ins Dunkel brachten erst die großen […]

**Contents**


**Fields of interest**

Popular Science; Earth Sciences (general); Geography (general)

**Target groups**

Popular/general

**Type of publication**

Popular science

**Usually dispatched within 3 to 5 business days.**
Psychoonkologische Beratung und Therapie.

1. Klärungen als Hilfe.
2. Hilfen zum Umgang mit schwierigen Situationen.
3. Hilfen zum Umgang mit unheilbarer Krankheit.
4. Praktische Hilfestellungen auf.
5. Erfahrungsberichte.

Features

Diagnose-Schock: Krebs

1. Klärungen als Hilfe.
2. Hilfen zum Umgang mit schwierigen Situationen.
3. Hilfen zum Umgang mit unheilbarer Krankheit.
4. Praktische Hilfestellungen auf.
5. Erfahrungsberichte.

Introduction: What is Community Psychiatry?

Features

Handbook of Community Psychiatry

During the past decade or more, there has been a rapid evolution of mental health services and treatment technologies, shifting psychiatric epidemiology, changes in public behavioral health policy, and increased understanding in medicine regarding approaches to clinical work that focus on patient-centeredness. These contemporary issues need to be articulated in a comprehensive format. The American Association of Community Psychiatrists (AACP), a professional organization internationally recognized as holding the greatest concentration of expertise in the field, has launched a methodical process to create a competency certification in community psychiatry. As a reference for a certification examination, that effort will benefit enormously from a comprehensive handbook on the subject.

Contents

1. Background: Community Psychiatry and History.
2. Basic Psychiatric Epidemiology.
3. Financing.
4. Advocacy: Community Organizing and Politics.
5. Recovery and Person-centered Care.
7. Team-based Treatment.
8. Family Therapy in Public Sector Settings.
9. Motivational Interviewing.
10. Group Modalities/techniques.
13. Physical Wellness.
15. Cultural Competence.
16. Assertive Community Treatment.
17. Family Psychoeducation.
18. Co-occurring Chemical Dependency and Mental...
Implizite Logiken des pädagogischen Blickes

Eine rekonstruktive Studie über Wahrnehmung im Kontext der Wohnungslosenhilfe


Contents


Fields of interest

Gender Studies

Target groups

Research

Type of publication

Monograph

Temporarily unavailable, ready for shipping 4-6 weeks.

2012. Etwa 300 S. 2 Abb. Softcover

37,34 €
ISBN 978-3-531-18751-8

Introvision als Coachingmethode für Tinnitusbetroffene

Eine empirische Studie


Contents


Fields of interest

Pedagogic Psychology

Target groups

Research

Type of publication

Monograph

Usually dispatched within 3 to 5 business days.

2012. 191 S. 29 Abb. Softcover

32,66 €
ISBN 978-3-531-19635-0

Kognitive Neurowissenschaften


Contents


Fields of interest

Neuropsychology; Neurosciences; Biological Psychology; Clinical Psychology; Neurology

Target groups

Upper undergraduate

Type of publication

German textbook

Online orders shipping within 2-3 days.

2012. XXII, 896 S. 295 Abb. in Farbe. Mit online files/ update. (Springer-Lehrbuch) Hardcover

65,37 €
ISBN 978-3-642-25526-7
Psychological Components of Sustainable Peace

Scholarship on the psychology of peace has been accumulating for decades. The approach employed has been predominantly centered on addressing and preventing conflict and violence and less on the conditions associated with promoting peace. Concerns around nuclear annihilation, enemy images, discrimination, denial of basic human needs, terrorism and torture have been the focal points of most research. The Psychological Components of a Sustainable Peace moves beyond a prevention-orientation to the study of the conditions for increasing the probabilities for sustainable, cooperative peace. Such a view combines preventative scholarship with a promotive-orientation to the study of peaceful situations and societies. The contributors to this volume examine the components of various psychological theories that contribute to the promotion of a harmonious, sustainable peace. Underlying this orientation is the belief that promoting the ideas and actions which can lead to a sustainable, harmonious peace will [...] 

Features

Scholarship on the psychology of peace has been accumulating for decades. The approach employed has been predominantly centered on addressing and preventing conflict and violence and less on the conditions associated with promoting peace. Concerns around nuclear annihilation, enemy images, discrimination, denial of basic human needs, terrorism and torture have been the focal points of most research. The [...] 

Contents


Fields of interest

Personality and Social Psychology

Target groups

Research

Type of publication

Contributed volume

Usually dispatched within 3 to 5 business days.


129,95 €

Reading, Writing, Mathematics and the Developing Brain: Listening to Many Voices

This valuable addition to the literature offers readers a comprehensive overview of recent brain imaging research focused on reading, writing and mathematics—a research arena characterized by rapid advances that follow on the heels of fresh developments and techniques in brain imaging itself. With contributions from many of the lead scientists in this field, a number of whom have been responsible for key breakthroughs, the coverage deals with the commonalities of, as well as the differences between, brain activity related to the three core educational topics. At the same time, the volume addresses vital new information on both brain and behavior indicators of developmental problems, and points out the new directions being pursued using current advances in brain imaging technologies as well as research-based interventions. The book is also a tribute to a new Edmund, J. Safra Brain center for the study of learning Disabilities at the University of Haifa-Israel. 

Features

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Contents

Reading. - Chapter 1. Introduction to the Reading and Writing Sections. - Chapter 2. Evidence of Dynamic Changes in Brain Processing from Imaging Techniques: Implications for Interventions for Developmental Disabilities. - Chapter 3. Magnetic Source Imaging: A Suitable Tool for Exploring the Neurophysiology of Typical and Impaired Reading Ability. - Chapter 4. ERP Studies of Reading Disabilities. - Chapter 5. A Model of Brain Activity of Young as Compared to Adult Dyslexic Readers, and their Outcomes from Intervention. - Chapter 6. Optimizing Reading Enhancement: Evidence from Brain. [...] 

Fields of interest

Neuropsychology; Health Informatics; Psychology Research

Target groups

Professional/practitioner

Type of publication

Monograph

Usually dispatched within 3 to 5 business days.

2012. IX, 110 p. 41 illus. Hardcover

49,95 €
ISBN 978-1-4614-3416-0

Statistical Methods in Neuropsychology: Common Procedures Made Comprehensible

This book describes appropriate statistical models that are commonly utilized in neuropsychology. The book discusses such issues as developing normative data for neuropsychological tests, and quantifying change “over time” through longitudinal analyses. The rationale for and allure of the volume is the fact that there are no publications that dovetail the two subdisciplines of applied statistics and neuropsychology. The overall objective of this book is to provide a pragmatic and concrete source for applying methodological and statistical techniques in research studies whose emphasis includes neuropsychology. Since there are a plethora of techniques to arrive at similar answers, each method with its strengths and weaknesses will be delineated. The beauty of the book will be that it will hopefully demystify commonly encountered issues faced with researchers. More specifically, it will provide a “how to do it” approach. 

Features

Statistical Methods in Neuropsychology: Common Procedures Made Comprehensible

David Aaron Maroof Statistics: not only the bane of many a student’s existence, but also puzzling to any number of mental health professionals. At the same time, they are necessary in making sound clinical judgments as to clients’ cognitive functioning or decline. Without them, a practitioner may be at a [...] 

Fields of interest

Neuropsychology; Health Informatics; Psychology Research

Target groups

Professional/practitioner

Type of publication

Monograph

Usually dispatched within 3 to 5 business days.

2012. XV, 324 p. 41 illus. (Literacy Studies, Vol. 6) Hardcover

99,95 €
ISBN 978-94-007-4085-3
Bankrott der Bildungsgesellschaft

Pädagogik in politökonomischen Kontexten


Features


Contents


Fields of interest

Social Sciences (general)

Target groups

Research

Type of publication

Monograph

Usually dispatched within 3 to 5 business days.

2012, 409 S. 32 Abb., 3 in Farbe. Softcover
46,68 €
ISBN 978-3-531-19525-4

Climate Change from a Criminological Perspective

Few would dispute the power of climate change to lead to profoundly destructive weather events. At the same time, the possibility of climate change as a consequence—or even a cause—of criminal events is far less recognized. As the earth grows warmer, issues regarding land use, water rights, bio-security, and food production and distribution will continue to have far-reaching impact, and produce more opportunity for offenses by individuals and groups as well as political and corporate entities. In Climate Change from a Criminological Perspective, a panel of pioneering green criminologists investigates an increasingly complex chain of ecological causes and effects. Illegal acts are analyzed as they contribute to environmental decline (e.g., wildlife poaching) or result from ecological distress (e.g., survival-related theft). Regulatory and other interventions are critiqued, concepts of environmental harm refined, and new research methodologies called for. And while individual events described are[...]

Features

Few would dispute the power of climate change to lead to profoundly destructive weather events. At the same time, the possibility of climate change as a consequence—or even a cause—of criminal events is far less recognized. As the earth grows warmer, issues regarding land use, water rights, bio-security, and food production and distribution will continue to have far-reaching impact, and produce more [...]

Contents

The Criminology of Climate Change.- It’s the End of the World as We Know It: Climate Change from a Criminological Perspective.- Heading Toward a New Criminogenic Climate: Climate Change, Political Economy, and Environmental Security.- The Cultural Silence of Climate Change Contrarianism.- Is Global warming a State-Corporate Crime?- Climate Change in the Courtie: A US and Global Perspective.- Environmental Enforcement Networks: Their Role in Climate Change Enforcement.- Oil Production, Climate Change, and Species Decline: The Case of Norway.- Climate Change, Gender, and Natural Disasters[...]

Fields of interest

Criminology & Criminal Justice; Environmental Law / Policy / Ecojustice

Target groups

Research

Type of publication

Monograph

Usually dispatched within 3 to 5 business days.

2012, VIII, 232 p. 1 illus. Hardcover
99,95 €
Co-Gruppen-Demokratie
Vorüberlegungen und Skizze zu einer institutionellen Demokratisierung moderner Gesellschaften


Features

Fields of interest
Social Sciences (general)

Das Framing von Issues in Medien und Politik
Eine Analyse systemspezifischer Besonderheiten


Features
Wie Themen in Medien und Politik behandelt werden ist unter gesellschafts- und demokratietheoretischen Gesichtspunkten relevant, da ein sinnvoller Diskurs zwischen Bevölkerung, Medien und Politik nur dann stattfinden kann.

Fields of interest
Political Science, general

Das Verhältnis von Kriminalität und Ökonomie
Eine empirische Studie am Beispiel der Privatisierung ehemaliger DDR-Betriebe


Fields of interest
Sociology, general
Das politische System der Niederlande

Eine Einführung

Die politische Geschichte der Niederlande war im Vergleich zu der anderer europäischer Staaten über Jahrhunderte hinweg durch ein hohes Maß an Kontinuität gekennzeichnet. Dieses Bild hat sich mittlerweile deutlich gewandelt: Vor allem die weit beachteten Entwicklungen und Geschehnisse der letzten Jahre haben gezeigt, dass die niederländische Politik sich seit einiger Zeit in einer Phase großer Umbrüche befindet, deren Verlauf auch im Ausland mit großem Interesse verfolgt wird. Das vorliegende Buch bietet die Möglichkeit, sich umfassend und fundiert über die Grundlagen, Strukturen und Akteure der niederländischen Politik zu informieren und zugleich ein Verständnis für aktuelle politische Entwicklungen zu gewinnen.

Features

Die politische Geschichte der Niederlande war im Vergleich zu der anderer europäischer Staaten über Jahrhunderte hinweg durch ein hohes Maß an Kontinuität gekennzeichnet. Dieses Bild hat sich mittlerweile deutlich gewandelt: Vor allem die weit beachteten Entwicklungen und Geschehnisse der letzten Jahre haben gezeigt, dass die niederländische Politik sich seit einiger Zeit in einer Phase großer Umbrüche befindet, [...]
Die Stadt der kurzen Wege
Alltags- und Wohnmobilität in Berliner Stadtquartieren


Features
Eine kompakte und funktional durchdachte Stadt wird als urbanes Modell wieder angestrebt und das Leitbild „Stadt der kurzen Wege“ ist ein Ausdruck dieses Ansatzes. Die Motivation für die Entwicklung des Leitbildes hängt eng mit Raumstrukturen, die in der Suburbanisierungsphase entstanden sind, und ihren Effekten (z.B. Flächenverbrauch, Anstieg von Verkehrs- und Umweltbelastungen) zusammen. Die Beiträge [...]
Frühe Hilfen
Versorgungskompetenz und Kompetenzüberzeugung von Eltern


Features

Contents

Fields of interest
Social Sciences (general); Social Work; Family

Target groups
Professional/practitioner

Type of publication
Professional book

Usually dispatched within 3 to 5 business days.

2012. 232 S. 8 Abb. (Soziale Arbeit als Wohlfahrtsproduktion) Softcover
37,34 €
ISBN 978-3-531-19597-1

Gesellschaftliche Teilhabe trotz Schulden?
Perspektiven interdisziplinären Wissenstransfers


Features
Die Überschuldung privater Haushalte stellt eine zunehmende gesellschaftliche Herausforderung dar. Datenbestände wissenschaftsbasierter Sozialberichterstattung weisen auf einen Anstieg der strukturellen Überschuldung hin. Die Mehrzahl der Betroffenen gehört einer Schuldnergruppe an, die sich durch eine hohe Überschuldungsintensität auszeichnet, wobei regelmäßig mehrere Indikatoren für das einzelne [..]

Contents

Fields of interest
Social Sciences (general)

Target groups
Research

Type of publication
Monograph

Online orders shipping within 2-3 days.

2012. 222 S. 16 Abb. Softcover
37,34 €
ISBN 978-3-531-19448-6

Handbook of Sociology of Aging

The Handbook of Sociology of Aging is the most comprehensive, engaging, and up-to-date treatment of developments within the field over the past 30 years. It is an indispensable resource for scholars, policy makers, and aging professionals alike. The Handbook of Sociology of Aging contains 45 far-reaching chapters, authored by nearly 80 of the most renowned experts, on the most pressing topics related to aging today. With its recurring attention to the social forces that shape human aging, and the social consequences and policy implications of it, the contents will be of interest to everyone who cares about what aging means for individuals, families, and societies. The chapters of the Handbook of Sociology of Aging illustrate the field’s extraordinary breadth and depth, which has never before been represented in a single volume. Its contributions address topics that range from foundational matters, such as classic and contemporary[..]

Features
The Handbook of Sociology of Aging is the most comprehensive and engaging treatment of the field over the past 30 years. It is an indispensable resource for scholars, policy makers, and aging professionals alike. The Handbook of Sociology of Aging contains 45 far-reaching chapters, authored by nearly 80 of the most renowned experts, on the most pressing topics related to aging[..]

Contents

Fields of interest
Aging; Public Health; Social Policy; Quality of Life Research

Target groups
Research

Type of publication
Handbook

Usually dispatched within 3 to 5 business days.

2011. XXV, 792 p. (Handbooks of Sociology and Social Research) Softcover
74,95 €
ISBN 978-1-4614-4095-6
Handbook of Survey Methodology for the Social Sciences

Surveys enjoy great ubiquity among data collection methods in social research: they are flexible in questioning techniques, in the amount of questions asked, in the topics covered, and in the various ways of interactions with respondents. Surveys are also the preferred method by many researchers in the social sciences due to their ability to provide quick profiles and results. Because they are so commonly used and fairly easy to administer, surveys are often thought to be easily thrown together. But designing an effective survey that yields reliable and valid results takes more than merely asking questions and waiting for the answers to arrive. Geared to the non-statistician, the Handbook of Survey Methodology in Social Sciences addresses issues throughout all phases of survey design and implementation. Chapters examine the major survey methods of data collection, providing expert guidelines for asking targeted questions, improving accuracy and quality of responses, while reducing sampling and [...] features surveys enjoy great ubiquity among data collection methods in social research: they are flexible in questioning techniques, in the amount of questions asked, in the topics covered, and in the various ways of interactions with respondents. Surveys are also the preferred method of many researchers in the social sciences due to their ability to provide quick profiles and results. Because they are so commonly [...] contents: acknowledgements - introduction - classification of surveys - survey ethics: what are we allowed to do in survey research - the salient bias in survey research - total survey error (tse) - common survey sampling techniques - frames, framing effects, and survey response - the art of question phrasing - interviewing - unit nonresponse due to refusal - controlling for response error, and quality of response - why do people agree to participate in surveys - respondents cooperation: demographic profile of survey respondents and its implications - effects of incentives in surveys - designing the face to face [...] fields of interest: methodology of the social sciences - target groups: research - type of publication: handbook usually dispatched within 3 to 5 business days.

Handbuch Bildungs- und Erziehungssoziology


Features: Das Handbuch bietet einen umfassenden Überblick zur Erziehungs- und Bildungssoziology. Neben klassischen Texten - u.a. von Adorno, Bourdieu, Durkheim und Luhmann - werden grundlegende Orientierungen und Paradigmen der Erziehungs- und Bildungssoziology umfassend dargestellt. Vom Elementarbereich bis zur Hochschule wird das Bildungssystem gezielt in den Blick genommen und werden dessen Probleme und [...] fields of interest: sociology; general; education (general) - target groups: professional/practitioner - type of publication: handbook - online orders shipping within 2-3 days.


Handlung: Neue Versuche zu einem klassischen Thema

Die Texte versuchen auf verschiedenen Wegen die soziologische Handlungstheorie kritisch zu beleuchten und ihre Entwicklung voranzubringen. Das Spektrum der Beiträge reicht von Versuchen, klassische handlungstheoretische Ansätze weiter zu entwickeln, bis zur Frage nach der Relevanz der Neurowissenschaften für die soziologische Handlungsanalyse; von der Verbindung des Handlungsbegriffs mit dem Konzept der sozialen Mechanismen bis zur Diskussion des Funktionsniveaus von Handlungen.

Features: Die Texte versuchen auf verschiedenen Wegen die soziologische Handlungstheorie kritisch zu beleuchten und ihre Entwicklung voranzubringen. Das Spektrum der Beiträge reicht von Versuchen, klassische handlungstheoretische Ansätze weiter zu entwickeln, bis zur Frage nach der Relevanz der Neurowissenschaften für die soziologische Handlungsanalyse; von der Verbindung des Handlungsbegriffs mit dem Konzept der [...] contents: handlungstheorien und theorieweisheit in der methodologisch-individualistischen tradition; soziologie und die „theorie des handelns“; die sozialtheoretische position und das mechanismenkonzept andreas balog; handlungstheoretische soziologie. grundlagen und aussichten eines forschungsprogramms; die rekonstruktion von handlungen und der voluntarismus; was kann eine soziologische handlungsanalyse leisten? - vom nutzen neurowissenschaftlicher erkenntnisse für die soziologie; der standpunkt der gesellschaftskritik. - fields of interest: sociology; general; social sciences (general); organizational studies, economic sociology - target groups: professional/practitioner - type of publication: professional book - usually dispatched within 3 to 5 business days.

Hochschule als Organisation


Features

Contents

Fields of interest
Organizational Studies, Economic Sociology; Social Sciences (general)

Target groups
Professional/practitioner

Type of publication
Monograph

Usually dispatched within 3 to 5 business days.

2012. 385 S. 16 Abb. (Organisationssoziologie) Softcover

56,03 €
ISBN 978-3-531-18769-3

Humanität beruflicher Teilhabe im Zeichen der Inklusion

Kriterien für die Qualität der Beschäftigung von Menschen mit Behinderungen


Features

Contents

Fields of interest
Social Structure, Social Inequality

Target groups
Research

Type of publication
Monograph

Usually dispatched within 3 to 5 business days.

2012. 313 S. 22 Abb. (Gesundheitsförderung - Rehabilitation - Teilhabe, 1) Softcover

37,34 €
ISBN 978-3-531-19264-2

Identitäten und Stereotype in grenzüberschreitenden Verflechtungsräumen

Das Beispiel der Großregion


Features

Contents
Grenzüberschreitenden Verflechtungsräume an der westdeutschen Grenze - Identität und Stereotyp.- Empirische Untersuchung.- Handlungsempfehlungen.

Fields of interest
Human Geography

Target groups
Research

Type of publication
Monograph

Online orders shipping within 2-3 days.

2012. 285 S. 17 Abb. (RaumFragen - Stadt – Region – Landschaft) Softcover

37,34 €
ISBN 978-3-531-19313-7
Interviews in der Recherche
Redaktionelle Gespräche zur Informationsbeschaffung


Features

Contents
Gesprächspartner - Kommunizieren - Fragen - Das persönliche Gespräch - Interviews über Draht und Papier - Störungen - Wirtschaft, Recht und Ethik.

Fields of interest
Communication Studies; Media Research

Target groups
Professional/practitioner

Type of publication
Professional book

Online orders shipping within 2-3 days.

2012. 200 S. Softcover
18,64 €
ISBN 978-3-531-18159-2

Kommunikation und Verständigung
Theorie - Empirie - Praxis


Features

Fields of interest
Media Research

Target groups
Professional/practitioner

Type of publication
Professional book

Usually dispatched within 3 to 5 business days.

46,68 €
ISBN 978-3-531-18600-9

Kulturelle Aspekte der Sozialisation

Junge türkische Männer in der Bundesrepublik Deutschland


Features
Başar Alabay untersucht die Zusammenhänge zwischen türkischer geschlechtsspezifischer Erziehung junger Männer und deren Gewaltbereitschaft und Gewaltausübung. In der türkischen und kurdischen Gesellschaft in der Türkei und in den Zuwanderungsländern in Westeuropa haben Männer bestimmte Privilegien, die jedoch mit dem Zwang verbunden sind, nach außen stets eine bestimmte Form von Männlichkeit zu wahren. Bei […]

Contents
Männlichkeits-Begriffe - Traditionelle Wertvorstellungen in der türkischen Gesellschaft - Entwicklungspychologische Aspekte - Die Beschneidung - Empirische Samples und ihre Analyse.

Fields of interest
Social Sciences (general)

Target groups
Research

Type of publication
Monograph

Usually dispatched within 3 to 5 business days.

2012. 443 S. 1 Abb. Softcover
46,68 €
ISBN 978-3-531-19609-1
Litigation-PR: Alles was Recht ist

Zum systematischen Stand der strategischen Rechtskommunikation


Features
Der vorliegende programmatische Sammelband fasst die aktuelle Diskussion um die Bedeutung und Funktion der strategischen Rechtskommunikation zusammen. Ausgehend vom amerikanischen Vorbild hat sich die Öffentlichkeitsarbeit in und um Gerichtsverfahren in Deutschland und Europa deutlich professionalisiert und ausgeweitet - auch auf Staatsanwaltschaften und Gerichte. Im vorliegenden Band kommen wichtige [...].

Contents

Fields of interest
Social Sciences (general)

Target groups
Professional/practitioner

Type of publication
Professional book

Usually dispatched within 3 to 5 business days.

2012. 372 S. 9 Abb. Softcover

37,34 €
ISBN 978-3-531-18201-8

MigrantInnen als Führungskräfte

Impulse für interkulturelles Coaching indonesischer Fach- und Führungskräfte


Features
Interkulturelles Coaching gilt als ideale Ergänzung zu interkulturellem Training für Expatriates. Ausländische Führungskräfte in Deutschland erhalten aber oft weder das eine noch das andere, sondern müssen sich selbst orientieren. Weltbild und Lernstil, die Migrationserfahrung und die asiatische Gewissensprägung spielen eine entscheidende Rolle in der Zusammenarbeit mit den oft hoch qualifizierten [...].

Contents

Fields of interest
Social Sciences (general)

Target groups
Research

Type of publication
Monograph

Usually dispatched within 3 to 5 business days.

2012. 177 S. 42 Abb. Softcover

32,66 €
ISBN 978-3-531-19643-5

Migration und Geschlechterverhältnisse

Kann die Migrantin sprechen?


Features

Contents

Fields of interest
Sociology, general; Gender Studies

Target groups
Professional/practitioner

Type of publication
Professional book

Usually dispatched within 3 to 5 business days.

2012. 260 S. 6 Abb. Softcover

37,34 €
ISBN 978-3-531-17990-2
Migrationspolitik zwischen moralischem Anspruch und strategischem Kalkül

Der Einfluss politischer Ideen in Deutschland und Frankreich

Zur Rolle von Einwanderungskultur in der Entstehung neuer politischer Steuerungskonzepte zu Migration und Integration war bislang wenig bekannt. Antonia Scholz analysiert, inwiefern moderne Migrationspolitik dem Einfluss politischer Ideen unterliegt. Die Autorin erläutert inhaltliche und qualitative Entwicklungslinien der Migrationspolitiken in Deutschland und Frankreich vor dem Hintergrund der unterschiedlichen Einwanderungstraditionen beider Länder. Im Vergleich der Migrationsregime wird deutlich, welche Rolle Wahrnehmung und Deutung in der Migrationspolitik spielen.

Features
Zur Rolle von Einwanderungskultur in der Entstehung neuer politischer Steuerungskonzepte zu Migration und Integration war bislang wenig bekannt. Antonia Scholz analysiert, inwiefern moderne Migrationspolitik dem Einfluss politischer Ideen unterliegt. Die Autorin erläutert inhaltliche und qualitative Entwicklungslinien der Migrationspolitiken in Deutschland und Frankreich vor dem Hintergrund der [...] 

Contents

Fields of interest
Social Sciences (general)

Target groups
Research

Type of publication
Monograph

Usually dispatched within 3 to 5 business days.

2012. 336 S. 16 Abb. Softcover

46,68 € ISBN 978-3-531-19537-7

Minderheitenschutz in EU-Erweiterungsprozessen

Normforderung und Sicherheitsinteressen in den Verhandlungen mit den Staaten Mittel- und Osteuropas und Westbalkanländern


Features
Im Vertrag von Lissabon wird die Wahrung der Rechte von Minderheiten ausdrücklich als Wert der Europäischen Union und ihrer Mitgliedstaaten genannt. Manuela Riedel arbeitet heraus, wie sich der Schutz von Minderheiten von einem zunächst nur im Rahmen von EU-Erweiterungsprozessen relevanten Kriterium zu einem gemeinsamen europäischen Wert entwickeln konnte. Hierzu analysiert die Autorin die von einem [...] 

Contents

Fields of interest
Social Sciences (general)

Target groups
Research

Type of publication
Monograph

Usually dispatched within 3 to 5 business days.

2012. 223 S. (Studien zur Europäischen Union, Vol. 8) Softcover

37,34 € ISBN 978-3-531-19696-1

Parteien und Politiker in sozialen Netzwerken

Moderne Wahlkampfkommunikation bei der Bundestagswahl 2009

Der Wahlkampf von Parteien und Politikern in sozialen Netzwerken wie Facebook oder studiVZ war zur Bundestagswahl 2009 als neues Phänomen in Deutschland zu beobachten. Simone Unger untersucht, wie präsent die Parteien und deren Spitzenkandidaten zu dieser Zeit in sozialen Netzwerken waren, wie die Parteien mit den sozialen Netzwerken umgingen, und wie dieser Umgang aus Sicht von Online-Kommunikations-Exper ten zu bewerten war und wie die Online-Aktivitäten der Parteien und ihrer Spitzenkandidaten in den sozialen Netzwerken auf die Rezipienten wirkten.

Features
Der Wahlkampf von Parteien und Politikern in sozialen Netzwerken wie Facebook oder studiVZ war zur Bundestagswahl 2009 als neues Phänomen in Deutschland zu beobachten. Simone Unger untersucht, wie präsent die Parteien und deren Spitzenkandidaten zu dieser Zeit in sozialen Netzwerken waren, wie die Parteien mit den sozialen Netzwerken umgingen, wie dieser Umgang aus Sicht von Online-Kommunikations-Experten zu [...]

Contents

Fields of interest
Political Science, general

Target groups
Research

Type of publication
Monograph

Usually dispatched within 3 to 5 business days.

2012. 313 S. 17 Abb. Softcover

37,34 € ISBN 978-3-531-19607-7
Pratiques professionnelles de la parole
(Europe, XIe-XVIIIe siècle)

En prenant pour objet la parole, les historiens aujourd'hui entendent saisir les formes prises jadis par l'éducation, par la communication et par les pratiques professionnelles. Les actes de langage comme les façons de faire et d'apprendre sont au cœur de ce dossier consacré aux métiers de la parole, en Europe, au Moyen Âge et à l'époque moderne.

Features
En prenant pour objet la parole, les historiens aujourd'hui entendent saisir les formes prises jadis par l'éducation, par la communication et par les pratiques professionnelles. Les actes de langage comme les façons de faire et d'apprendre sont au cœur de ce dossier consacré aux métiers de la parole, en Europe, au Moyen Âge et à l'époque moderne.

Fields of interest
Sociology, general

Type of publication
Contributed volume

Quality of life in Italy
Research and Reflections

The outcome of the first Italian National Conference on Quality of Life, this volume is full of cogent analysis of topics and issues related to well being and quality of life, including focused papers on specific population groupings and discrete themes. Held in Florence in September 2010, the conference saw the creation of the Italian Association of Quality of Life Studies, devised as a forum for this varied field of research with a rapidly expanding profile in the context of the continuing financial crisis. The papers address a number of recognized quality-of-life concerns, including public health, wealth distribution, employment, political participation and the perception of crime. Contributors deploy innovative methods of analyzing official statistics that result in more complex and multidimensional indicators. Some papers provide data on other European nations that allow for comparative assessment, while others set out fresh approaches to evaluating quality of life itself. Highly relevant not[...]

Contents

Fields of interest
Quality of Life Research; Statistics (general)

Target groups
Research

Self-Orientationality in South East Europe

The collapse of communist systems in South East Europe resulted in a landscape to be newly arranged. Diverse forces compete to capture the popular energies released by the embrace of old and new identities. Deficits of modernization in a post communist nexus have deepened cultural asymmetries and challenge EU integration in new ways. Drives to rule of the “strong hand”, feed-like patron-client relations, “self-orientationality” as result of dilettante “social engineering” and unrealistic cultural politics increase the entropy of transition. Plamen K. Georgiev discusses the most controversial issues of a possible accession of Turkey into EU and its impact on a number of collective identities as Bulgaria, Macedonia, Romania, Croatia, vulnerable to Islamic fundamentalism, but also new breeds of nationalism. This comparative study prompts apt ideas for EU coordinated national politics, fostering its cultural homogeneity and integrity in a global world of rising risks and new responsibilities.

Features
The outcome of the first Italian National Conference on Quality of Life, this volume is full of cogent analysis of topics and issues related to well being and quality of life, including focused papers on specific population groupings and discrete themes. Held in Florence in September 2010, the conference saw the creation of the Italian Association of Quality of Life Studies, devised as a forum for this varied [...]...

Contents
Crisis of Identities. - Chalga, Turbo Folk and Manele. - Machism, Feed-like Patronage and Political Sultanism. - “Shifting” and/or Bargained Identities. - Self Orientationality and Modern “Barbarization”. - Cultural engineering Diletantis. - Coping with The Euro-Musslim Brother(hoods). - SE Europe between the Collapse of Ottoman Empire, Eastern Europe and the New Identities. Deficits of modernization in a post communist landscape have deepened cultural asymmetries and challenge EU integration in new ways. Drives to rule of the “strong hand”, feed-like patron-client relations, “self-orientationality” as result of dilettante “social engineering” and unrealistic cultural politics increase the entropy of transition. Plamen K. Georgiev discusses the most controversial issues of a possible accession of Turkey into EU and its impact on a number of collective identities as Bulgaria, Macedonia, Romania, Croatia, vulnerable to Islamic fundamentalism, but also new breeds of nationalism. This comparative study prompts apt ideas for EU coordinated national politics, fostering its cultural homogeneity and integrity in a global world of rising risks and new responsibilities.

Fields of interest
Sociology, general

Target groups
Research

Type of publication
Monograph

Usually dispatched within 3 to 5 business days.

2012. 184 p. 1 illus. (Crossculture) Softcover

37,34 €
ISBN 978-3-531-17758-8
The U.S.-Mexico Border Region is among the poorest geographical areas in the United States. The region has been long characterized by dual development, poor infrastructure, weak schools, health disparities and low-wage employment. More recently, the region has been affected by the violence associated with a drug and crime war in Mexico. The premise of this book is that the U.S.-Mexico Border Region is subject to systemic oppression and that the so-called social pathologies that we see in the region are by-products of social and economic injustice in the form of labor exploitation, environmental racism, immigration militarism, institutional sexism and discrimination, health inequalities, a political economy based on low-wage labor, and the globalization of labor and capital. The chapters address a variety of examples of injustice in the areas of environment, health disparity, migration unemployment, citizenship, women and gender violence, mental health, and drug violence. The book proposes a pathway[...]

Contents

Section I. Introduction and Conceptual Framework.-
Chapter 1. Social Justice in the U.S.-Mexico Border Region: A Conceptual Framework; Mark Luk, Kathleen Staudt, & Eva Moya.-
Section II. Critical Perspectives on the Border Region.-
Chapter 2. Political Economy and Social Justice in the US Mexico Border Region; Josiah Heyman.-
Chapter 3. The Violence of Citizenship on the U.S.-Mexico Border: How Citizenship Creates Exclusion and Inclusion; Tony Payan.-
Chapter 4. Women, Gender and Border: How Citizenship Creates Exclusion and Inclusion; Kathleen Staudt and Tony Payan.-
Chapter 5. A Theological Perspective on Social Justice in the Violence in La Frontera; Kathleen Staudt.-
Chapter 6. Inclusion; Tony Payan.-
Chapter 7. The Violence of Citizenship on the U.S.-Mexico Border Region is among the poorest geographical areas in the United States. The region has been long characterized by dual development, poor infrastructure, weak schools, health disparities and low-wage employment. More recently, the region has been affected by the violence associated with a drug and crime war in Mexico. The premise of this book is that the U.S.-Mexico Border Region is subject to systemic oppression and that the so-called social pathologies that we see in the region are by-products of social and economic injustice in the form of labor exploitation, environmental racism, immigration militarism, institutional sexism and discrimination, health inequalities, a political economy based on low-wage labor, and the globalization of labor and capital. The chapters address a variety of examples of injustice in the areas of environment, health disparity, migration unemployment, citizenship, women and gender violence, mental health, and drug violence. The book proposes a pathway[...]

Fields of interest

Sociology, general, Migration; Political Science, general

Target groups

Research

Type of publication

Contributed volume

Usually dispatched within 3 to 5 business days.

2012, XII, 286 p. 23 illus. Hardcover

99,95 €

The Chinese Face in Australia

Multi-generational Ethnicity among Australian-born Chinese

The book explains how multi-generational Australian-born Chinese negotiate the balance of two cultures. It explores both the philosophical and theoretical levels, focusing on deconstructing and re-evaluating the concept of 'Chineseness.' At a social and experiential level, it concentrates on how successive generations of early migrants experience, negotiate and express their Chinese identity. The diasporic literature has taken up the idea of hybrid identity construction largely in relation to first- and second-generation migrants and to the sojourner’s sense of roots in a diasporic setting somewhat lost in the debate over Chinese diasporas and identities are the experiences of long-term migrant communities. Their experiences are usually discussed in terms of the melting pot concepts of assimilation and integration that assume ethnic identification decreases and eventually disappears over successive generations. Based on ethnography, fieldwork and participant observation on multi-generational[...]

Contents


Fields of interest

Sociology, general; Cross Cultural Psychology; Clinical Psychology

Target groups

Research

Type of publication

Monograph

Usually dispatched within 3 to 5 business days.

2012. XXIV, 220 p. 47 illus. Hardcover

89,95 €
ISBN 978-1-4614-2130-6

The Family, the Market or the State?

Intergenerational Support Under Pressure in Ageing Societies

This book touches upon a few of the major challenges that all modern societies will have to face in the near future: how to set up a resilient pay-as-you-go pension system; whether the current balance between expenses and revenues in social expenditure is viable in the future, and, if not, what changes need to be introduced; whether the relative well-being of the current and future cohorts of the old will be preserved, and how their standards of living compare to those experienced by the old in the recent past. At the micro level, the exchanges between generations are presented and discussed in detail: how they have evolved in the recent past in terms of time, money, co-residence and proximity, and what will likely happen next. The geographical scope is on the developed countries, plus South Korea. A rich documentation of tables and graphs supports the scientific analyses and the policy implications in each of the nine chapters of this book, where demography, sociology, and economics intersect[...]

Fields of interest

Demography; Population Economics; Statistics for Social Science; Behavioral Science; Education, Public Policy, and Law; Social Policy

Target groups

Research

Type of publication

Contributed volume

Usually dispatched within 3 to 5 business days.


99,95 €
ISBN 978-94-007-4338-0
The Psychology of Quality of Life

Hedonic Well-Being, Life Satisfaction, and Eudaimonia

The second edition will be an update and further elaboration of the literature related to subjective well-being, happiness, and life satisfaction. It will have a new substantial section that focuses on reviewing much of the literature of subjective well-being within specific life domains (social life, material life, leisure life, work life, community life, spiritual life, family life, health life, sex life, travel life, etc.). In the 1st edition the research in these various life domains was discussed only briefly. The second edition will maintain the same organizational structure of the first edition; that is, Part 1 will focus on introduction (definitions and distinctions; examples of measures of subjective well-being, happiness, and life satisfaction; and motives underlying subjective well-being). Part 2 will focus on psychological strategies that are allow people to optimize subjective well-being by engaging in psychological processes related to the relationship between and among life domains.

Features

The updated edition of this popular book covers up-to-date research on hedonic well-being (emotional well-being, positive/negative affect, affective dimension of happiness, etc.), life satisfaction (subjective well-being, perceived quality of life, subjective well-being, and cognitive dimension of happiness), and eudaimonia (psychological well-being, self-actualization, self-realization, growth, mental [...]

Contents


Fields of interest

Quality of Life Research; Health Psychology; Health and Quality of Life

Target groups

Research

Type of publication

Monograph

Usually dispatched within 3 to 5 business days.

2012, XXIII, 622 p. 14 illus. (Social Indicators Research Series, Vol. 50) Hardcover

169,95 €


The Urban Fabric of Crime and Fear

How does the city’s urban fabric relate to crime and fear, and how is that fabric affected by crime and fear? Does the urban environment affect one’s decision to commit an offence? Is there a victimisation-related inequality within cities? How do crime and fear interrelate to inequality and segregation in cities of developing countries? What are the challenges to planning cities which are both safe and sustainable? This book searches for answers to these questions in the nature of the city, particularly in the social interactions that take place in urban space distinctively guided by different land uses and people’s activities. In other words, the book deals with the urban fabric of crime and fear. The novelty of the book is to place safety and security issues on the urban scale by (1) showing links between urban structure, and crime and fear, (2) illustrating how different disciplines deal with urban vulnerability to (and fear of) crime (3) including concrete examples of issues and challenges (4) and (5) 

Features

How does the city’s urban fabric relate to crime and fear, and how is that fabric affected by crime and fear? Does the urban environment affect one’s decision to commit an offence? Is there a victimisation-related inequality within cities? How do crime and fear interrelate to inequality and segregation in cities of developing countries? What are the challenges to planning cities which are both safe and [...]

Contents

Varieties of Capitalism and Innovationssysteme

Nationale Muster institutioneller Strategien im Kontext der Globalisierung

Daniel Heinrich analysiert den Ansatz der Varieties of Capitalism (VoC) aus der politischen Ökonomie sowie institutionelle Unterschiede in nationalen Innovationssystemen. Er entwickelt ein Modell institutioneller Hierarchien, das die Funktion hat, institutionellen Wandel in Marktökonomien anzupassen und zu endogenisieren. Im Ergebnis erweisen sich Innovationssysteme liberaler Marktökonomien (Angelsächsische Länder) als abhängig vom militärisch-industriellen Komplex, während koordinierte Marktökonomien (kontinentales Westeuropa) vom Humankapital profitieren.

Features

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Contents


Fields of interest

Social Sciences (general)

Target groups

Research

Type of publication

Monograph

Online orders shipping within 2-3 days.

2012. 250 S. 24 Abb. Softcover

37.34 €
ISBN 978-3-531-19529-2

Social Sciences 159

Web 2.0 Technologies and Democratic Governance

Political, Policy and Management Implications

Web 2.0 has become the buzz word for describing social media available on the Internet, such as blogs, photo and file sharing systems and social networking sites. These Web 2.0 applications are rapidly transforming citizen-citizen and citizen-government interactions in a manner not seen before. In recognition of these trends, governments are already taking a very close look at Web 2.0 and online communities in order to leverage them for designing products and services and for providing citizen services. This book brings together international scholars to provide the theoretical and practical contexts for understanding the nature of Web 2.0 technologies and their impact on political, public policy and management processes, and to explore how best Web 2.0 applications can be leveraged and aligned with the strategic goals of government organizations to add value and ensure effective governance. Drawing from experiences from countries around the globe, the book provides the theoretical context of the...

Features

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Contents


Fields of interest

Political Science, general; Business Strategy/Leadership

Target groups

Research

Type of publication

Contributed volume

Usually dispatched within 3 to 5 business days.

2012. XI, 275 p. 26 illus., 18 in color. (Public Administration and Information Technology, Vol. 1) Hardcover

129.95 €
ISBN 978-1-4614-1447-6
**Web 2.0-Anwendungen im Marketing von Kunstmuseen**

Eine kritische Auseinandersetzung

Das Web 2.0 etabliert sich gegenwärtig als Teil eines modernen Marketings. Das gilt auch für die Kulturbranche: Vor allem in Zeiten leerer öffentlicher Kassen und schrumpfender Zuschüsse eröffnet das Internet interessante neue Wege, um mit den verschiedenen Stakeholdern Kontakt aufzunehmen. Hier besteht die Chance, eine jüngere Zielgruppe für sich zu gewinnen. Unter Berücksichtigung von Controlling-Aspekten untersucht Tanja Binder, wann und in welcher Form Social Media sinnvoll für ein effizientes Museumsmarketing genutzt werden kann, um die Marketingaufgaben Besucherbindung, Besucherakquisition, Leistungsinnovation, Leistungspflege und Stakeholder-Kommunikation nachzukommen.

**Features**

Das Web 2.0 etabliert sich gegenwärtig als Teil eines modernen Marketings. Das gilt auch für die Kulturbranche: Vor allem in Zeiten leerer öffentlicher Kassen und schrumpfender Zuschüsse eröffnet das Internet interessante neue Wege, um mit den verschiedenen Stakeholdern Kontakt aufzunehmen. Hier besteht die Chance, eine jüngere Zielgruppe für sich zu gewinnen. Unter Berücksichtigung von Controlling-Aspekten [..]

**Contents**

Museumsmarketing.- Web 2.0.- Implementieren von Web 2.0 in das Marketingkonzept eines Kunstmuseums.- Vorgehenweise.- Controlling und Erfolgsmessung.- Chancen, Grenzen, Risiken.

**Fields of interest**

Social Sciences (general)

**Target groups**

Research

**Type of publication**

Monograph

**Usually dispatched within 3 to 5 business days.**

2012. 119 S. 5 Abb. (VS College) Softcover

27,99 €

ISBN 978-3-531-19624-4

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**Werben um „Advokaten“**

Deutungsstrategien in den internationalen Beziehungen kirchlicher Oppositionsbewegungen in den Philippinen


**Features**


**Contents**


**Fields of interest**

Social Work

**Target groups**

Research

**Type of publication**

Monograph

**Online orders shipping within 2-3 days.**

2012. 360 S. Softcover

46,68 €

ISBN 978-3-531-19539-1

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**Work and Quality of Life**

Ethical Practices in Organizations

Employees have personal responsibilities as well as responsibilities to their employers. They also have rights. In order to maintain their well-being, employees need opportunities to resolve conflicting obligations. Employees are often torn between the ethical obligations to fulfill both their work and non-work roles, to respect and be respected by their employers and coworkers, to be responsible to the organization while the organization is reciprocally responsible to them, to be afforded some degree of autonomy at work while attending to collaborative goals, to work within a climate of mutual employee-management trust, and to voice opinions about work policies, processes and conditions without fear of retribution. Humanistic organizations can recognize conflicts created by the work environment and provide opportunities to resolve or minimize them. This handbook empirically documents the dilemmas that result from responsibility-based conflicts. The book is organized by sources of dilemmas that fall[..]

**Features**

Employees have personal responsibilities as well as responsibilities to their employers. They also have rights. In order to maintain their well-being, employees need opportunities to resolve conflicting obligations. Employees are often torn between the ethical obligations to fulfill both their work and non-work roles, to respect and be respected by their employers and coworkers, to be responsible to the [..]

**Contents**


**Fields of interest**

Quality of Life Research; Industrial and organisational psychology; Personnel Management; Psychotherapy and Counseling

**Target groups**

Research

**Type of publication**

Handbook

**Usually dispatched within 3 to 5 business days.**


249,00 €

ISBN 978-94-007-4058-7
Excel 2010 for Social Science Statistics
A Guide to Solving Practical Problems

This is the first book to show the capabilities of Microsoft Excel to teach social science statistics effectively. It is a step-by-step exercise-driven guide for students and practitioners who need to master Excel to solve practical social science problems. If understanding statistics isn’t your strongest suit, you are not especially mathematically-inclined, or if you are wary of computers, this is the right book for you.

Excel, a widely available computer program for students and managers, is also an effective teaching and learning tool for quantitative analyses in social science courses. Its powerful computational ability and graphical functions make learning statistics much easier than in years past. However, Excel 2010 for Social Science Statistics: A Guide to Solving Practical Problems is the first book to capitalize on these improvements by teaching students and managers how to apply Excel to statistical techniques necessary in their courses and work. Each chapter explains statistical formulas and…

Features
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Contents
Sample Size, Mean, Standard Deviation, and Standard Error of the Mean.- Random Number Generator.- Confidence Interval About the Mean Using the TINV.- One-Group t-Test for the Mean.- Two-Group t-Test of the Difference of the Means for Independent Groups.- Correlation and Simple Linear Regression.- Multiple Correlation and Multiple Regression.- One-Way Analysis of Variance (ANOVA).- References.- Appendices.- Index.

Fields of interest
Statistics (general); Statistics for Social Science, Behavioral Science, Education, Public Policy, and Law; Statistics and Computing / Statistics Programs

Target groups
Upper undergraduate

Type of publication
Graduate/advanced undergraduate textbook

Online orders shipping within 2-3 days.

39,95 €
ISBN 978-1-4614-3621-8

Missing Data
Analysis and Design

Missing data have long plagued those conducting applied research in the social, behavioral, and health sciences. Good missing data analysis solutions are available, but practical information about implementation of these solutions has been lacking.

The objective of Missing Data: Analysis and Design is to enable investigators who are non-statisticians to implement modern missing data procedures properly in their research, and reap the benefits in terms of improved accuracy and statistical power. Missing Data: Analysis and Design contains essential information for both beginners and advanced readers. For researchers with limited missing data analysis experience, this book offers an easy-to-read introduction to the theoretical underpinnings of analysis of missing data; provides clear, step-by-step instructions for performing state-of-the-art multiple imputation analyses; and offers practical advice, based on over 20 years’ experience, for avoiding and troubleshooting problems. For more advanced…

Features
Missing data have long plagued those conducting applied research in the social, behavioral, and health sciences. Good missing data analysis solutions are available, but practical information about implementation of these solutions has been lacking.

The objective of Missing Data: Analysis and Design is to enable investigators who are non-statisticians to implement modern missing data procedures…

Contents
Missing Data Theory.- Multiple Imputation and Basic Analysis.- Practical Issues in Missing Data Analysis.- Planned Missing Data Design.

Fields of interest
Statistics for Social Science, Behavioral Science, Education, Public Policy, and Law; Statistics (general); Statistics for Life Sciences, Medicine, Health Sciences

Target groups
Research

Type of publication
Monograph

Usually dispatched within 3 to 5 business days.

2012. XII, 223 p. 164 illus. in color. Softcover

39,95 €
ISBN 978-1-4614-4017-8
Solving Differential Equations in R

Mathematics plays an important role in many scientific and engineering disciplines. This book deals with the numerical solution of differential equations, a very important branch of mathematics. Our aim is to give a practical and theoretical account of how to solve a large variety of differential equations, comprising ordinary differential equations, initial value problems and boundary value problems, differential algebraic equations, partial differential equations and delay differential equations. The solution of differential equations using R is the main focus of this book. It is therefore intended for the practitioner, the student and the scientist, who wants to know how to use R for solving differential equations. However, it has been our goal that non-mathematicians should at least understand the basics of the methods, while obtaining entrance into the relevant literature that provides more mathematical background. Therefore, each chapter that deals with R examples is preceded by a chapter.

Features
Mathematics plays an important role in many scientific and engineering disciplines. This book deals with the numerical solution of differential equations, a very important branch of mathematics. Our aim is to give a practical and theoretical account of how to solve a large variety of differential equations, comprising ordinary differential equations, initial value problems and boundary value problems.

Contents

Fields of interest
Statistics and Computing / Statistics Programs; Ordinary Differential Equations; Partial Differential Equations; Computational Mathematics and Numerical Analysis; Simulation and Modeling

Target groups
Graduate

Type of publication
Monograph

Usually dispatched within 3 to 5 business days.

2012. XVI, 248 p. 63 illus., 13 in color. (Use R) Softcover

49,95 €
ISBN 978-3-642-28069-6
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