Just Released New Books
December 2011
All Titles, All Languages

Sorted by author and title within the main subject
Kompendium digitale Fotografie
Von der Theorie zur erfolgreichen Fotopraxis

Features
Antibiotic Discovery and Development

This volume covers all aspects of the antibiotic discovery and development process through Phase II/III. The contributors, a group of highly experienced individuals in both academics and industry, include chapters on the need for new antibiotic compounds, strategies for screening for new antibiotics, sources of novel synthetic and natural antibiotics, discovery phases of lead development and optimization, and candidate compound nominations into development. Beyond discovery, the handbook will cover all of the studies to prepare for IND submission: Phase I (safety and dose ranging), progression to Phase II (efficacy), and Phase III (capturing desired initial indications). This book walks the reader through all aspects of the process, which has never been done before in a single reference. With the rise of antibiotic resistance and the increasing view that a crisis may be looming in infectious diseases, there are strong signs of renewed emphasis in antibiotic research. The purpose of the handbook is...

Features

This volume covers major aspects of the antibiotic discovery and development process. The contributors, a group of highly experienced individuals in both academics and industry, include chapters on the historical perspectives of antibiotic discovery, the need for new antibiotic compounds, strategies for screening for new antibiotics, sources of novel synthetic and natural antibiotics, discovery phases of...

Contents


Fields of interest

Medical Microbiology; Pharmacology / Toxicology; Physical Chemistry; Molecular Medicine

Target groups

Professional/practitioner

Type of publication

Contributed volume

Usually dispatched within 3 to 5 business days

2012, XVI, 1127 p. 211 illus., 80 in color. Hardcover

$499.00
ISBN 978-1-4614-1399-8

Anticarbohydrate Antibodies

From Molecular Basis to Clinical Application

Many pathogens and aberrant malignant cells express unique carbohydrates on their surface representing attractive targets for vaccine design. Considerable progress has recently been made in the identification of novel carbohydrate based vaccines and a large number has reached clinical phase studies. The success of several licensed carbohydrate based vaccines against bacterial pathogens such as Haemophilus influenzae type b, Neisseria meningitidis or Streptococcus pneumoniae demonstrates their great potential. However, the study of anti-carbohydrate antibodies is technically challenging and partly because of low affinities and promiscuous specificity they have not been medically exploited to full potential. The study of antibody specificities and identification of protective carbohydrate epitopes lies at the heart of successful vaccine design. In addition to therapy, antibodies in general serve as diagnostic tools in medical and scientific laboratories. In this setting high affinity and exquisite...

Features

Anticarbohydrate Antibodies – from molecular basis to clinical application compiles current knowledge on the immunological recognition of carbohydrates by the adaptive immune system from a molecular perspective providing fundamental insight needed for advancing clinically relevant diagnostics and therapeutic applications. Based on significant progress in the fields of glycoimmunology and structural...

Contents

1 Antibodies and Synthetic Vaccines against Shigella O-Antigens.- 2 Synthetic Oligosaccharide Bacterial Antigens to Produce Monoclonal Antibodies for Diagnosis and Treatment of Disease Using Bacillus anthracis as a Case Study.- 3 The Role of Sialic acid in the Formation of Protective Conformational Bacterial Polysaccharide Epitopes.- 4 Antibody Recognition of Chlamydia LPS: Structural Insights of Inherited Immune Responses.- 5 Designing a Candida albicans Conjugate Vaccine by Reverse Engineering Protective Monoclonal Antibodies.- 6 Binding Properties, Structural Significances and...

Fields of interest

Antibodies; Immunology

Target groups

Research

Type of publication

Contributed volume

Due: January 28, 2012

2012, XIII, 438 p. 113 illus., 56 in color. Hardcover

$209.00
ISBN 978-3-7091-0869-7

Astrocytes

Methods and Protocols

Ever since their discovery more than 150 years ago, astrocytes have proved to be something of an enigma. Only in the last 10-15 years has it become clear that astrocytes are multifunctional versatile cells that play key roles in a multitude of diverse processes in the CNS, including generation of neural stem cells, synaptogenesis, and regulation of the blood-brain barrier and neurovascular unit. Astrocytes: Methods and Protocols provides scientists with a comprehensive guide to many techniques used for astrocyte cell culture, as well as more specialized approaches for studying astrocyte functions, both in vitro and in vivo. Key cellular, molecular, and biochemical techniques are used to study the many and varied functions of this fascinating cell. 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...

Features

Ever since their discovery more than 150 years ago, astrocytes have proved to be something of an enigma. Only in the last 10-15 years has it become clear that astrocytes are multifunctional versatile cells that play key roles in a multitude of diverse processes in the CNS. Astrocytes: Methods and Protocols provides scientists with a comprehensive guide to many techniques used for astrocyte cell...

Contents

Astrocytes: Multi-talented Stars of the Central Nervous System.-Neurogenetic Astrocytes and their Glycoconjugates: not just “Glue” Anymore.- Heterogeneity of Astrocytic Form and Function.- Preparation of Mixed Glial Cultures from Postnatal Rat Brain.-Generation of Primary Astrocyte Cultures Devoid of Contaminating Microglia.-Derivation of Microglia-free Astrocyte Cultures from Neural Stem Cells.-Isolation and Culture of Spinal Cord Astrocytes.-Isolation and Culture of Astrocytes from the Retina and Optic Nerve.-Primary Cultures of Astrocytes from Fetal Bovine Brain.-Isolation and...

Fields of interest

Neurosciences; Human Physiology

Target groups

Professional/practitioner

Type of publication

Contributed volume

Usually dispatched within 3 to 5 business days

2012, XIV, 575 p. 113 illus., 40 in color. (Methods in Molecular Biology, Vol. 814) Hardcover

$159.00
Atlas of Forensic Pathology
For Police, Forensic Scientists, Attorneys, and Death Investigators

The Atlas of Forensic Pathology for Police, Forensic Scientists, Attorneys and Death Investigators is a Major Reference Work that is specifically designed for non-pathologists who normally interact with forensic pathologists. Chapters 1 through 6 will provide background information regarding medicine, pathology, forensic pathology, death investigation, cause, manner and mechanism of death, death certification, and anatomy and physiology. The next 3 chapters will deal with general topics within forensic pathology, including the forensic autopsy, postmortem changes and time of death, and body identification. Chapters 10 through 20 will detail the major types of deaths encountered by forensic pathologists, including natural deaths, drug/toxin deaths, blunt force injuries, gunshot wounds, sharp force injuries, asphyxia, drowning, electrocution, temperature-related injuries, burns and fires, and infant/childhood deaths. The final chapter will include brief descriptions dealing with various [...] Features

Contents
Forensic Science; Forensic Medicine; Pathology

Target groups
Professional/practitioner

Type of publication
Atlas

Due: March 31, 2012

 Atlas of Genetic Diagnosis and Counseling

Dr. Chen shares his almost 40 years of clinical genetics practice in a comprehensive pictorial atlas of almost 250 genetic disorders, malformations, and malformation syndromes. The author provides a detailed outline for each disorder, describing its genetics, basic defects, clinical features, diagnostic tests, and counseling issues, including recurrence risk, prenatal diagnosis, and management. Numerous color photographs of prenatal ultrasounds, imaging, cytogenetics, and postmortem findings illustrate the clinical features of patients at different ages, patients with varying degrees of severity, and the optimal diagnostic strategies. The disorders cited are supplemented by case histories and diagnostic confirmation by cytogenetics, biochemical, and molecular techniques, when available. The Atlas of Genetic Diagnosis and Counseling will help all physicians to understand and recognize genetic diseases and malformation syndromes and better evaluate, counsel, and manage affected patients. In this new [...] Features

Contents
Human Genetics; Cytogenetics; Molecular Medicine; Pathology

Target groups
Professional/practitioner

Type of publication
Reference work

Due: January 16, 2012

Cell Signaling & Molecular Targets in Cancer

This book provides an overview of critical components of cell signaling machinery and its role in epithelial morphogenesis, proliferation, invasions and angiogenesis in human cancer and discusses novel types of protein kinase pathways. Features

The abnormal behavior of all cancer cells regardless of cancer type is irregular cell signaling pathway activity. A mechanistic approach dealing with a fundamental and molecular view based signaling cascade are exciting and dynamic areas of cancer research. This book illuminates what we know, how we know and what remains to be discovered in this regard. The book explore and identify not only the key [...] Contents

Acknowledgement. - GRB2 Signaling as a Molecular Target for Cancer. - Human arylamine N-acetyltransferase 1. - from drug metabolism to drug target. - Targeting Argininosuccinate Synthetase in Cancer Therapy. - Parathyroid hormone-related peptide signaling in cancer. - Signaling Molecules as Selective Targets for Therapeutic Strategies in Multiple Myeloma. - Role of Bile Acids in Carcinogenesis of Gastrointestinal Tract. - AIB1: A Transcriptional Coactivator which Integrates Signaling Crosstalk in Cancer Cells. - Rational Design of DNA Anti-cancer Agent that Targets Signal Transducer and Activator [...] Fields of interest
Cancer Research; Pharmacology / Toxicology

Target groups
Research

Type of publication
Contributed volume

Usually dispatched within 3 to 5 business days

2012. XI, 328 p. 53 illus, 43 in color. Hardcover
$189.00 ISBN 978-1-4614-0729-4

2012. XII, 906 p. 1500 illus. Print + eReference. Hardcover
$849.00 ISBN 978-1-61779-059-1

2012. 2284 p. 2472 illus, 2018 in color. In 3 volumes, not available separately. Hardcover
Cellular Physiology and Metabolism of Physical Exercise

The book covers areas of cellular physiology and metabolism that are of interest to scientists involved in research in diabetes and metabolic diseases. Some chapters of the book are specifically research-oriented, as all the authors are actively practicing either bench or clinical research in the area. Nonetheless, since the work is fully comprehensive of the discipline, it is also suitable for university classes of graduate and undergraduate students. In particular, the book discusses classical aspects of cellular physiology and the metabolism of physical exercise, as well as novel topics like exercise in transplantation and exercise in beta-cell failure, which mark the frontiers of research in sport-related sciences and research. Exercise physiologists, biologists and physicians are the specific professional and academic targets of this work. The team of authors together with the editor are world-renowned experts in the field of physiology and metabolism applied to sport sciences.

Features
The book covers areas of cellular physiology and metabolism that are of interest to scientists involved in research in diabetes and metabolic diseases. Some chapters of the book are specifically research-oriented, as all the authors are actively practicing either bench or clinical research in the area. Nonetheless, since the work is fully comprehensive of the discipline, it is also suitable for university [...]
Computational Drug Discovery and Design

Due to the rapid and steady growth of available low-cost computer power, the use of computers for discovering and designing new drugs is becoming a central topic in modern molecular biology and medicinal chemistry. In Computational Drug Discovery and Design: Methods and Protocols expert researchers in the field provide key techniques to investigate biomedical applications for drug developments based on computational chemistry. These include methods and techniques from binding sites prediction to the accurate inclusion of solvent and entropic effects, from high-throughput screening of large compound databases to the expanding area of protein-protein inhibition, toward quantitative free-energy approaches in ensemble-based drug design using distributed computing. Written in the highly successful Methods in Molecular Biology™ series format, chapters include introductions to their respective topics, reference to software and open source analysis tools, step-by-step, readily reproducible.[...]

Features
Due to the rapid and steady growth of available low-cost computer power, the use of computers for discovering and designing new drugs is becoming a central topic in modern molecular biology and medicinal chemistry. In Computational Drug Discovery and Design: Methods and Protocols expert researchers in the field provide key techniques to investigate biomedical applications for drug developments based.[...]

Contents
A Molecular Dynamics Ensemble-Based Approach for the Mapping of Druggable Binding Sites.- Analysis of Protein Binding Sites by Computational Solvent Mapping.- Evolutionary Trace for Prediction and Redesign of Protein Functional Sites.- Information Entropic Functions for Molecular Descriptor Profiling.- Expanding the Conformational Sites.- Information Entropic Functions for Molecular Prediction and Redesign of Protein Functional Analysis of Protein Binding Sites by Computational for the Mapping of Druggable Binding Sites.- [...] Fields of interest Pharmacology / Toxicology

Target groups Professional/practitioner

Type of publication Contributed volume

Usually dispatched within 3 to 5 business days

2012, XVII, 628 p. 110 illus., 17 in color. (Methods in Molecular Biology, Vol. 819) Hardcover

$159.00

DNA Electrophoresis Protocols for Forensic Genetics

Forensic DNA profiling procedures are mainly based on high resolution and high throughput capillary electrophoresis separation and detection systems of PCR amplicons obtained from DNA genomic markers with different inheritance patterns. In DNA Electrophoresis Protocols for Forensic Genetics, expert researchers in the field detail many of the protocols and methods which are now commonly used to perform forensic DNA profiling. It includes protocols for profiling of autosomal STRs, Y-STRs, X-STRs, autosomal SNPs, INDELS, Y-SNPs, mtDNA-SNPs, and mtDNA hypervariable regions HV1 and HV2 . Protocols for molecular identification of non-human species and mtDNA profiling for body fluid identification are also included. 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[...]

Features
Forensic DNA profiling procedures are mainly based on high resolution and high throughput capillary electrophoresis separation and detection systems of PCR amplicons obtained from DNA genomic markers with different inheritance patterns. In DNA Electrophoresis Protocols for Forensic Genetics, expert researchers in the field detail many of the protocols and methods which are now commonly used to.[...]

Contents

Fields of interest Human Genetics; Electrophoresis

Target groups Professional/practitioner

Type of publication Contributed volume

Usually dispatched within 3 to 5 business days

2012, XIII, 394 p. 70 illus., 44 in color. (Methods in Molecular Biology, Vol. 830) Hardcover

$139.00

Formulating Poorly Water Soluble Drugs

This volume is intended to provide the reader with a breadth of understanding regarding the many challenges faced with the formulation of poorly water-soluble drugs as well as in-depth knowledge in the critical areas of development with these compounds. Further, this book is designed to provide practical guidance for overcoming formulation challenges toward the end goal of improving drug therapies with poorly water-soluble drugs. Enhancing solubility via formulation intervention is a unique opportunity in which formulation scientists can enable drug therapies by creating viable medicines from seemingly undeliverable molecules. With the ever increasing number of poorly water-soluble compounds entering development, the role of the formulation scientist is growing in importance. Also, knowledge of the advanced analytical, formulation, and process technologies as well as specific regulatory considerations related to the formulation of these compounds is increasing in value. Ideally, this book will serve[...]

Features
A pharmaceutical scientist’s approach toward solubility enhancement of a poorly water-soluble molecule typically includes detailed characterization of the compound’s physicochemical properties, solid-state modifications, advanced formulation design, non-conventional process technologies, advanced analytical characterization, and specialized product performance analysis techniques. The scientist must also be[...]

Contents

Target groups Research

Type of publication Contributed volume

Usually dispatched within 3 to 5 business days

2012, XII, 646 p. 188 illus., 135 in color. (AAPS Advances in the Pharmaceutical Sciences Series, Vol. 3) Hardcover

$279.00
Fundamentals and Applications of Controlled Release Drug Delivery

This book approaches the subject from a mechanistic perspective that pitches the language at a level that is understandable to those entering the field and who are not familiar with its common phrases or complex terms. It provides a simple encapsulation of concepts and expands on them. In each chapter the basic concept is explained as simply and clearly as possible without a great deal of detail, then in subsequent sections additional material, exceptions to the general rule, examples, etc., is introduced and built up. Such material was generously supplemented with diagrams; conceptually elegant line diagrams in two or three colors. The artwork was well thought out and able to condense the scientific principles into a novel and visually exciting form. The diagrams encourage browsing or draw the reader to salient points. In addition, the technique of highlighting key concepts in a separate box is used throughout each chapter.

Features

This authoritative book covers the fundamentals relating to the science and technology of drug delivery. The book is written at a level that is understandable to those entering the field and who are not familiar with its common phrases or complex terms. It is a book that provides a simple encapsulation of concepts and expands on them using a building block approach to each subject, starting at a basic level.

Contents

Hallucinations
Research and Practice

The work aims to provide an overview of the field of contemporary hallucinations research. It will consist of 28 chapters, the writing of which will be put out to international experts specialized in the specific fields at hand. The work aims to be unique, in that it intends to cover many different types of hallucination, and to approach the subject matter from four different perspectives, i.e., conceptual, phenomenological, neuroscientific, and therapeutic.

Features
Hallucinations continue to fascinate people throughout the world. The mere possibility of perceiving things that are not there is the stuff that campfire tales are made of. It is one thing to be in a dream state, to be asleep and to conjure up people, scenes, and landscapes that do not actually exist, but it is quite another to hallucinate: to be wide awake, and yet hear that ethereal music, see those [..].

Contents

Fields of interest
Neurocsiences; Neurobiology

Target groups
Graduate

Type of publication
Contributed volume

Usually dispatched within 3 to 5 business days

2012, XVII, 424 p. 72 illus., 60 in color. Hardcover
$209.00
ISBN 978-1-4614-0958-8

Hot Topics in Infection and Immunity in Children VIII

Book covers course with topics in infectious diseases in children and is intended for Pediatric Infectious disease clinical researchers, trainees, trainers, and all those who manage the research of children with infections and the children themselves. The conference is being supported by several societies and is sponsored by several pharmaceutical companies, such as Aventis, Baxter, Chiron Vaccines, Wyeth, etc.

Features
No back cover

Contents

Fields of interest
Immunology; Infectious Diseases; Pharmacy; Virology; Microbiology; Pathology

Target groups
Research

Type of publication
Contributed volume

Usually dispatched within 3 to 5 business days

2011, XII, 212 p. 29 illus., 18 in color. (Advances in Experimental Medicine and Biology, Vol. 719) Hardcover
$189.00

Inflammation and Atherosclerosis

It has been known for over 150 years that hallmarks of inflammation can be observed in the wall of atherosclerotic vessels. It was, however, not clear if this inflammation is the cause or the consequence of atherogenesis. More recently, it has become evident that inflammation mediated both by innate and adaptive immunity is instrumental even in the earliest stages of the development of atherosclerotic lesions, i.e., that it plays an important pathogenic role. In this volume, international experts in the field discuss the pathogenic, diagnostic, preventive and possible therapeutic relevance of inflammation in atherogenesis. This book is intended for researchers and physicians in the fields of vascular biology, immunology and atherosclerosis.

Features

Fields of interest
Immunology; Human Physiology; Endocrinology; Vaccine

Target groups
Research

Type of publication
Contributed volume

Usually dispatched within 3 to 5 business days

2012, IX, 631 p. 84 illus., 53 in color. Hardcover
$239.00
ISBN 978-3-7091-0337-1
Isoquinolines And Beta-Carbolines As Neurotoxins And Neuroprotectants

New Vistas In Parkinson’s Disease Therapy

The specific topic, “Isoquinolines And Beta-Carbolines As Neurotoxins And Neuroprotectants – New Perspectives In Parkinson’s Disease Therapy,” was chosen in light of accumulating neurobiological evidence indicating that, in addition to exogenous neurotoxins (e.g., 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine [MPTP]), endogenous compounds may play an important role in the most common neurodegenerative disorders (e.g., Parkinson’s disease). Two groups of amine related compounds, which appeared chemically like MPTP, were detected in human brain and cerebrospinal fluid (CSF): β-carbolines (BCs) and tetrahydroisoquinolines (THIQs). These are heterocyclic compounds formed endogenously from phenylalanine/tyrosine (THIQs) and tryptophan, tryptamine, and 5-hydroxytryptamine (BCs), respectively and exert a wide spectrum of psychopharmacological and behavioral effects. The THIQs and BCs may hold to their own high affinity sites on neuronal membranes associated with or located close to the receptors of...[...]

Contents
Two faces of 1,2,3,4-tetrahydroisoquinolines. A mode of action in the mammalian brain: is it an endogenous neurotoxin or a neuromodulator? - Isoquinolines as neurotoxins: action and molecular mechanism. - 1-Methyl-1,2,3,4-tetrahydroisoquinoline - a potent neuroprotecting agent. - 1-Methyl-1,2,3,4-tetrahydroisoquinoline and addiction: experimental studies. - β-carbolines as neurotoxins. - Neuroprotective β-carbolines: occurrence, formation and biodegradation. - β-carbolines and neuroprotection: inhibition of monoamine oxidase. - β-carbolines increase the efficiency of the respiratory...[...]

Fields of interest
Neurosciences; Neurochemistry; Pharmacy

Target groups
Professional/practitioner

Type of publication
Contributed volume

Usually dispatched within 3 to 5 business days

2012. X, 177 p. 34 illus., 3 in color. (Current Topics in Neurotoxicity, Vol. 1) Hardcover

Long Acting Injections and Implants

Long acting injections and implants improve therapy, enhance patient compliance, improve dosing convenience, and are the most appropriate formulation choice for drugs that undergo extensive first pass metabolism or that exhibit poor oral bioavailability. An intriguing variety of technologies have been developed to provide long acting injections and implants. Many considerations need to go into the design of these systems in order to translate a concept from the lab bench to actual therapy for a patient. This book surveys and summarizes the field. Topics covered in Long Acting Injections and Implants include the historical development of the field, drugs, diseases and clinical applications for long acting injections and implants, anatomy and physiology for these systems, specific injectable technologies (including lipophilic solutions, aqueous suspensions, microspheres, liposomes, in situ forming depots and self-assembling lipid formulations), specific implantable technologies (including osmotic...[...]

Features
Long acting injections and implants improve therapy, enhance patient compliance, improve dosing convenience, and are the most appropriate formulation choice for drugs that undergo extensive first pass metabolism or that exhibit poor oral bioavailability. An intriguing variety of technologies have been developed to provide long acting injections and implants. Many considerations need to go into the design [...]
Next-Generation MicroRNA Expression Profiling Technology

Methods and Protocols

The rapid pace of microRNA (miRNA) research continues to drive the advances of techniques for miRNA expression profiling, and innovative technologies that are more sensitive, specific, quantitative, and that are compatible with a wide range of biospecimens have been developed during the past few years. In Next-Generation MicroRNA Expression Profiling Technology: Methods and Protocols, expert researchers in the field contribute detailed examinations of the most current approaches being used today. This volume includes comprehensive coverage of methodologies that have been developed for miRNA profiling, as well as next-gen sequencing technology, miRNA databases, and specialized applications, such as cancer studies and miRNA-based non-invasive biomarker development. Written in the highly successful Methods in Molecular Biology® series format, chapters feature introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory...[.]

Features

The rapid pace of microRNA (miRNA) research continues to drive the advances of techniques for miRNA expression profiling, and innovative technologies that are more sensitive, specific, quantitative, and that are compatible with a wide range of biospecimens have been developed during the past few years. In Next-Generation MicroRNA Expression Profiling Technology: Methods and Protocols, expert...[.]

Contents


Fields of interest

Human Genetics; Gene Expression

Target groups

Professional/practitioner

Type of publication

Contributed volume

Usually dispatched within 3 to 5 business days

2012, XI, 341 p. 64 illus., 11 in color. (Methods in Molecular Biology, Vol. 822) Hardcover

$139.00
ISBN 978-1-61779-426-1

POCT - Patientennahe Labordiagnostik


Features


Contents


Features

Neuronal phase response curves (PRCs) summarize the relationship between the timing of inputs within a neuron’s spike cycle and the consequent shifts in output spike timing. The form of a neuron’s PRC reflects its mechanism of spike initiation or excitability as well as other influences of membrane conductances on synaptic integration. PRCs are efficient encapsulations of the input-output processing of...[.]

Phase Response Curves in Neuroscience

Theory, Experiment, and Analysis

This book will track advances in the application of phase response (PR) analysis to the study of electrically excitable cells, focusing on applications of PR analysis in the computational neurosciences. This proposal was motivated by discussions with colleagues at the 2007 meeting of the Organization for Computational Neuroscience (OCNS) and further motivated by the success of a workshop at the 2008 OCNS meeting this past July. At that meeting the editors hosted a workshop entitled A dialogue for theoreticians and experimentalists: What is phase response analysis, and what can it tell us about neurons and networks? Invited speakers used mathematical, modeling, and experimental results to illustrate how phase response analysis has been used to reveal or describe neuronal and neuronal population dynamics. This was the most well-attended workshop of the meeting and was standing room only.

Contents


Fields of interest

Neurosciences; Neurology

Target groups

Graduate

Type of publication

Contributed volume

Usually dispatched within 3 to 5 business days


$239.00
ISBN 978-1-4614-0738-6
Recombinant Gene Expression

Studies related to recombinant gene expression have brought new advance such as the emergence of the “omics” technologies. While Escherichia coli, Saccharomyces cerevisiae and insect cells continue to be the dominant production platforms of recombinant proteins. In Recombinant Gene Expression: Review and Protocols, Third Edition, expert researchers in the field detail many of the methods now commonly used to study recombinant gene expression. These include methods and techniques for bacteria, lower eukaryotes, fungi, plants and plant cells, and animals and animal cells. 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, Recombinant Gene Expression: Review and Protocols, Third Edition seeks to aid scientists in the further…

Features

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Contents


Fields of interest

Human Genetics; Gene Expression

Target groups

Professional/practitioner

Type of publication

Contributed volume

Usually dispatched within 3 to 5 business days


$159.00

Retinal Degenerative Diseases

This book will contain the proceedings of the XIV International Symposium on Retinal Degeneration (RD2010), held July 13-17, 2010, in Mont-Tremblant, Quebec, Canada. The volume will present representative state-of-the-art research in almost all areas of retinal degenerations, ranging from cytopathologic, physiologic, diagnostic and clinical aspects; animal models; mechanisms of cell death; candidate genes, cloning, mapping and other aspects of molecular genetics; and developing potential therapeutic measures such as gene therapy and neuroprotective agents for potential pharmaceutical therapy.

Features

This book will contain the proceedings of the XIV International Symposium on Retinal Degeneration (RD2010), held July 13-17, 2010, in Mont-Tremblant, Quebec, Canada. The volume will present representative state-of-the-art research in almost all areas of retinal degenerations, ranging from cytopathologic, physiologic, diagnostic and clinical aspects; animal models; mechanisms of cell death; candidate genes, cloning, mapping and other aspects of molecular genetics; and developing potential therapeutic measures such as gene therapy and neuroprotective agents for potential pharmaceutical therapy.

Fields of interest

Immunology; Ophthalmology; Geriatrics / Gerontology; Gene Therapy

Target groups

Research

Type of publication

Proceedings

Usually dispatched within 3 to 5 business days


$279.00

The Forgotten Cure

The Past and Future of Phage Therapy

This book fills a void. Never before has a comprehensive history of phage therapy—a once-neglected, now resurgent field—been written. Kuchment writes from the perspective of the eager student of history for the common reader.

Features

“Bacteriophages have the potential to stop many if not most life threatening, drug resistant bacterial infections. The Forgotten Cure is a non-stop, cover to cover read.” – James D. Watson, Nobel Laureate
“A lively tale of killer viruses, superbugs and a magical cure that has all the twists of a cold-war spy novel.” – George Hackett, Newsweek

Contents


Fields of interest

Medical Microbiology; Laboratory Medicine; Immunology

Target groups

Popular/general

Type of publication

Popular science

Usually dispatched within 3 to 5 business days

2012. XVI, 131 p. 6 illus. Hardcover

$19.95

A. Lorence, Arkansas State University, Jonesboro, AR, USA (Ed.)

M.M. LaVail, University of California, San Francisco, CA, USA; J.D. Ash, University of Oklahoma Health Sciences Center, Oklahoma City, OK, USA; R.E. Anderson, University of Oklahoma Health Sciences Center, Oklahoma City, OK, USA; J.G. Hollyfield, Cole Eye Institute at the Cleveland Clinic, Cleveland, OH, USA; C. Grimm, University of Zürich, Zürich, Switzerland (Eds.)

A. Kuchment, Scientific American, New York, NY, USA
Viral Molecular Machines

This book will contain a series of solicited chapters that concern with the molecular machines required by viruses to perform various essential functions of virus life cycle. The first three chapters (Introduction, Molecular Machines and Virus Architecture) introduce the reader to the best known molecular machines and to the structure of viruses. The remainder of the book will examine in detail various stages of the viral life cycle. Beginning with the viral entry into a host cell, the book takes the reader through replication of the genome, synthesis and assembly of viral structural components, genome packaging and maturation into an infectious virion. Each chapter will describe the components of the respective machine in molecular or atomic detail, genetic and biochemical analyses, and mechanism. Topics are carefully selected so that the reader is exposed to systems where there is a substantial infusion of new knowledge in recent years, which greatly elevated the fundamental mechanistic[...]

Features
A biological organism can be viewed as a collection of molecular machines well integrated to function as a self-replicating unit. One of the principal goals in biology is to be able to fully understand the mechanisms of an organism in atomic detail. Viruses offer the best opportunities to achieve this goal. Written by leaders in the respective fields, this book examines a variety of viral molecular[...]

Contents

Fields of interest
Virolgy; Microbiology; Infectious Diseases; Immunology

Target groups
Research

Type of publication
Contributed volume

Usually dispatched within 3 to 5 business days

2012, XIV, 687 p. 221 illus., 192 in color. (Advances in Experimental Medicine and Biology, Vol. 726) Hardcover

$279.00

Electrochemistry, Nanotechnology in Biology and Medicine II

The study of electrochemical nanotechnology has emerged as researchers apply electrochemistry to nanoscience and nanotechnology. These two related volumes in the Modern Aspects of Electrochemistry Series review recent developments and breakthroughs in the specific application of electrochemistry and nanotechnology to biology and medicine. Internationally renowned experts contribute chapters that address both fundamental and practical aspects of several key emerging technologies in biomedicine, such as the processing of new biomaterials, biofunctionalization of surfaces, characterization of biomaterials, discovery of novel phenomena and biological processes occurring at the molecular level.

Features
Topics in Number 53 include: Fundamental studies of electron tunneling between electrodes and proteins; Electron transfer kinetics at oxide films on metallic biomaterials; How adsorption of organic molecules and ions depends on surface crystallography of the metal electrode; Studying and modifying biomaterial surfaces with high resolution using the scanning electrochemical[...]

Contents

Fields of interest
Electrochemistry; Nanotechnology; Biomedicine (general)

Target groups
Research

Type of publication
Monograph

Usually dispatched within 3 to 5 business days

2012, XX, 338 p. 86 illus., 7 in color. (Modern Aspects of Electrochemistry, Vol. 53) Hardcover

$129.00
ISBN 978-1-4614-2136-8
Berichte zur Lebensmittelsicherheit
2010
Bundesweiter Überwachungsplan 2010


Features
Bundesweiter Überwachungsplan, Untersuchung von Lebensmitteln auf Stoffe und die Anwendung von Verfahren, Lebensmittelharftstoffe nach Art. 24 der Verordnung (EG) Nr. 1333/2008 in Süßwaren und alkoholfreie Erfrischungsgetränken, Blausäuregehalt in Amarettini, Mangold und Deoxynivalenol in Backmischungen für Brot und Kuchen, Ars en Algen, Reis und [-].

Contents

Fields of interest
Food Science, Public Health, Statistics for Life Sciences, Medicine, Health Sciences; Characterization and Evaluation of Materials

Target groups
Professional/practitioner

Type of publication
Contributed volume

Usually dispatched within 3 to 5 business days März 28, 2012

2011, III, 44 S. (BVL-Reporte, Vol. 6,1) Softcover

$39.95
ISBN 978-3-0348-0265-9

Biotechnology for Pulp and Paper Processing

This book provides the most up-to-date information available on various biotechnological processes useful in the pulp and paper industry. Each of the twenty chapters covers a specific biotechnological process or technique, discussing the advantages, limitations, and future prospects of the most important and popular processes used in the industry. Topics covered include tree improvement, pulp, bleaching, deinking, fiber modification, biosolids management, and biorefining.

Features
This book provides the most up-to-date information available on various biotechnological processes useful in the pulp and paper industry. Each of the twenty chapters covers a specific biotechnological process or technique, discussing the advantages, limitations, and future prospects of the most important and popular processes used in the industry. Topics covered include tree improvement, pulp, bleaching, [-].

Contents

Fields of interest
Biotechnology; Chemical Engineering; Biotechnology; Carbohydrate Chemistry; Industrial Pollution Prevention; Environmental Management

Target groups
Research

Type of publication
Monograph

Usually dispatched within 3 to 5 business days

2012. XXI, 414 p. 49 illus., 9 in color. Hardcover

$179.00

Direct-Fed Microbials and Prebiotics for Animals

Science and Mechanisms of Action

The practice of supplementing direct fed microbial and prebiotic additives to domestic animals during growth is becoming more widespread in food animal production. Beneficial effects particularly in cattle, pigs and poultry, including improved general health, foodborne pathogen reduction, more efficient food utilization, faster growth rate and increased milk and egg production are common results. The success associated with direct fed microbial and prebiotic applications in multiple species ensures their continued commercialization and the widespread use of such additives. However, several fundamental questions remain about how and why probiotic products work, and which kind of probiotic products are best for specific production scenarios. It appears that early establishment and retention of an ecological balance in the gastrointestinal tract is an important first step for an external biological additive to be effective in young animals. Therefore, it is possible that the effectiveness of direct [-].

Contents

Fields of interest
Food Science

Target groups
Professional/practitioner

Type of publication
Contributed volume

Usually dispatched within 3 to 5 business days

2012. XIII, 206 p. 6 illus. in color. Hardcover

$189.00
Field-Flow Fractionation in Biopolymer Analysis

This is a timely collection of important biomedical applications for a set of separation/characterization techniques that are rapidly gaining popularity due to their wide dynamic range, high resolution, and ability to function in most commonly used solvent systems. Importantly, the field-flow fractionation (FFF) technique has recently emerged as a prominent complement to size exclusion chromatography for protein pharmaceuticals. Fractionation with FFF is gentle and preserves protein structural integrity better than existing alternatives. In the present text, different chapters are written by experts in their respective field of application, who offer comparisons between the FFF techniques and other methods for characterizing their special focus material. Practical guide-lines for successful implementation, such as choice of operating conditions, are offered in conjunction with each application. In addition to new instrumentation and approaches that address important current topics, readers are [...] Features

This is a timely collection of important biomedical applications for a set of separation/characterization techniques that are rapidly gaining popularity due to their wide dynamic range, high resolution, and ability to function in most commonly used solvent systems. Importantly, the field-flow fractionation (FFF) technique has recently emerged as a prominent complement to size exclusion chromatography for [...] Contents


Analytical Chemistry; Pharmaceutical Sciences / Technology; Protein Science; Medicinal Chemistry

Target groups

Research

Type of publication

Monograph

Usually dispatched within 3 to 5 business days

2012. X, 305 p. 93 illus., 44 in color. Hardcover

$189.00
ISBN 978-3-7091-0153-7

Handbuch der gefährlichen Güter. Band 6: Merkblätter 2072 - 2502


Features

Das Handbuch der gefährlichen Güter ist das Standardwerk für den Transport von Gefahrgütern. Es gibt Informationen zu nationalen und internationalen Transportvorschriften und zu Notfallsmaßnahmen bei Unfällen mit gefährlichen Gütern sowie Hinweise für die ärztliche Erstbehandlung von Personen. Für alle Gefahrgüter, die im Hommel enthalten sind, wurden die GHS-Kennzeichnungen mit aufgenommen: [...] Fields of interest

Safety in Chemistry / Dangerous Goods; Emergency Medicine; Public Law

Target groups

Professional/practitioner

Type of publication

Loose-leaf publication

Due: Januar 13, 2012

2012. 916 S. (Hommel,G.(Hg):Hdb gefäßl.Güter (Bände), Vol. 6) Ring binder
$359.00
ISBN 978-3-642-25051-4
Handbuch der gefährlichen Güter. Erläuterungen II. Austauschlieferung, Dezember 2011


Features

Fields of interest
Safety in Chemistry / Dangerous Goods; Emergency Medicine; Public International Law

Type of publication
Loose-leaf publication

Due: Januar 13, 2012

2012. 100 S. (Erläuterungen und Synonymliste)

$129.00
ISBN 978-3-642-25059-0


Features

Fields of interest
Safety in Chemistry / Dangerous Goods; Emergency Medicine; Public International Law

Target groups
Professional/practitioner

Type of publication
Loose-leaf publication

Due: Januar 13, 2012

2012. 60 S. (Transport- und Gefahrenklassen)

$109.00
ISBN 978-3-642-25087-3

Microbial Food Safety
An Introduction

In this book, some of the most qualified scientists review different food safety topics, ranging from emerging and reemerging foodborne pathogens, food regulations in the USA, food risk analysis and the most important foodborne pathogens based on food commodities. This book provides the reader with the necessary knowledge to understand some of the complexities of food safety. However, anybody with basic knowledge in microbiology will find in this book additional information related to a variety of food safety topics.

Features
In this book, some of the most qualified scientists review different food safety topics, ranging from emerging and reemerging foodborne pathogens, food regulations in the USA, food risk analysis and the most important foodborne pathogens based on food commodities. This book provides the reader with the necessary knowledge to understand some of the complexities of food safety. However, anybody with basic [..]

Contents
I. Microorganisms and Food Contamination.- Emerging and Reemerging Foodborne Pathogens.- Clinical Presentations and Pathogenicity of Foodborne Diseases by Bacteria.- Microbiology Terms Applied to Food Safety.- Methods of Identification of Bacterial Foodborne Pathogens.- Methods to Type Foodborne Pathogens for Epidemiological Studies.- Foodborne Viruses.- II. Safety of Major Food Products.- Safety of Fruit, Nut, and Berry Products.- Safety of Dairy Products.- Safety of Meat Products.- III. Risk Analysis, Interventions,[..]

Fields of interest
Food Science; Chemistry (general); Applied Microbiology; Agriculture

Target groups
Upper undergraduate

Type of publication
Graduate/advanced undergraduate textbook

Usually dispatched within 3 to 5 business days

2012. X, 262 p. 52 illus., 2 in color. (Food Science Text Series) Hardcover

$79.95
Mycoctoxins in Feedstuffs

Mycoctoxins are substances produced from fungal secondary metabolic processes. They impair animal health, thereby causing great economic losses of livestock through disease. Livestock come into contact with mycoctoxins through contaminated feedstuff. Feedstuff is any of the constituent nutrients of an animal ration. The plants used in feed, such as grains, oil seeds, nuts, and root crops, are susceptible to mycoctoxin contamination. Mycoctoxins in Feedstuffs lists (in the style of a dictionary) feeds which have been reported to have been contaminated with mycoctoxins, including data on the degree of contamination, the concentration of the toxins, and the country of origin and/or detection of the contaminated feed. This second edition will feature: More than 180 new publications concerning mycoctoxins in feedstuffs. A more efficient organization of the content, making the book easier to use in daily practice. A single-chapter overview of mycoctoxins in the corresponding feedstuffs.

Features
Mycoctoxins are substances produced from fungal secondary metabolic processes. They impair animal health, thereby causing great economic losses of livestock through disease. Livestock come into contact with mycoctoxins through contaminated feedstuff. Feedstuff is any of the constituent nutrients of an animal ration. The plants used in feed, such as grains, oil seeds, nuts, and root crops, are susceptible to [...]
Advanced Data Mining and Applications

7th International Conference, ADMA 2011, Beijing, China, December 17-19, 2011, Proceedings, Part I

The two-volume set LNAI 7120 and LNAI 7121 constitutes the refereed proceedings of the 7th International Conference on Advanced Data Mining and Applications, ADMA 2011, held in Beijing, China, in December 2011. The 35 revised full papers and 29 short papers presented together with 3 keynote speeches were carefully reviewed and selected from 191 submissions. The papers cover a wide range of topics presenting original research findings in data mining, spanning applications, algorithms, software and systems, and applied disciplines.

Features

The two-volume set LNAI 7120 and LNAI 7121 constitutes the refereed proceedings of the 7th International Conference on Advanced Data Mining and Applications, ADMA 2011, held in Beijing, China, in December 2011. The 35 revised full papers and 29 short papers presented together with 3 keynote speeches were carefully reviewed and selected from 191 submissions. The papers cover a wide range of topics presenting original research findings in data mining, spanning applications, algorithms, software and systems, and applied disciplines.

Fields of interest

Artificial Intelligence (incl. Robotics); Information Systems Applications (incl. Internet); Information Storage and Retrieval; Database Management; Data Mining and Knowledge Discovery; Algorithm Analysis and Problem Complexity

Target groups

Research

Type of publication

Proceedings

Due: December 28, 2011


$95.00
ISBN 978-3-642-25855-8

N. Meghanathan, Jackson State University, MS, USA; N. Chaki, University of Calcutta, India; D. Nagamalai, Wireilla Net Solutions PTY Ltd, Melbourne, VIC, Australia (Eds.)

Advances in Computer Science and Information Technology. Computer Science and Engineering


The three volume set LNCS 84 - LNCS 86 constitute the refereed proceedings of the Second International Conference on Computer Science and Information Technology, CCSIT 2012, held in Bangalore, India, in January 2012. The 70 revised full papers presented in this volume were carefully reviewed and selected from numerous submissions and address all major fields of the Computer Science and Information Technology in theoretical, methodological and practical or applicable aspects. The papers feature cutting-edge development and current research in computer science and engineering.

Features

The three volume set LNCS 84 - LNCS 86 constitute the refereed proceedings of the Second International Conference on Computer Science and Information Technology, CCSIT 2012, held in Bangalore, India, in January 2012. The 70 revised full papers presented in this volume were carefully reviewed and selected from numerous submissions and address all major fields of the Computer Science and Information Technology in theoretical, methodological and practical or applicable aspects. The papers feature cutting-edge development and current research in computer science and engineering.

Fields of interest

Computer Communication Networks; Information Systems Applications (incl. Internet); Artificial Intelligence (incl. Robotics); Algorithm Analysis and Problem Complexity; Information Storage and Retrieval; Software Engineering

Target groups

Research

Type of publication

Proceedings

Due: January 10, 2012


$119.00
ISBN 978-3-642-27307-0
**Advances in Computer Science and Information Technology, Computer Science and Information Technology**


The three volume set LNICST 84 - LNICST 86 constitute the refereed proceedings of the Second International Conference on Computer Science and Information Technology, CCSIT 2012, held in Bangalore, India, in January 2012. The 55 revised full papers presented in this volume were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on advances in computer science and information technology, and ad hoc ubiquitous computing.

**Features**
The three volume set LNICST 84 - LNICST 86 constitute the refereed proceedings of the Second International Conference on Computer Science and Information Technology, CCSIT 2012, held in Bangalore, India, in January 2012. The 55 revised full papers presented in this volume were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on advances in computer science and information technology.

**Fields of interest**
Computer Communication Networks; Information Systems Applications (incl. Internet); Artificial Intelligence (incl. Robotics); Algorithm Analysis and Problem Complexity; Information Storage and Retrieval; Software Engineering

**Target groups**
Research

**Type of publication**
Proceedings

**Due: January 10, 2012**


$107.00
ISBN 978-3-642-27316-2

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**Advances in Computer Science and Information Technology, Networks and Communications**


The three volume set LNICST 84 - LNICST 86 constitute the refereed proceedings of the Second International Conference on Computer Science and Information Technology, CCSIT 2012, held in Bangalore, India, in January 2012. The 66 revised full papers presented in this volume were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on networks and communications; wireless and mobile networks; and network security.

**Features**
The three volume set LNICST 84 - LNICST 86 constitute the refereed proceedings of the Second International Conference on Computer Science and Information Technology, CCSIT 2012, held in Bangalore, India, in January 2012. The 66 revised full papers presented in this volume were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on networks and communications.

**Fields of interest**
Computer Communication Networks; Information Systems Applications (incl. Internet); Artificial Intelligence (incl. Robotics); Algorithm Analysis and Problem Complexity; Information Storage and Retrieval; Software Engineering

**Target groups**
Research

**Type of publication**
Proceedings

**Due: January 10, 2012**


$119.00
ISBN 978-3-642-27298-1

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**Advances in Multimedia Modeling**

18th International Conference, MMM 2012, Klagenfurt, Austria, January 4-6, 2012. Proceedings

This book constitutes the refereed proceedings of the 18th International Multimedia Modeling Conference, MMM 2012, held in Klagenfurt, Austria, in January 2012. The 38 revised regular papers, 12 special session papers, 15 poster session papers, and 6 demo session papers were carefully reviewed and selected from 142 submissions. The papers are organized in the following topical sections: annotation, annotation and interactive multimedia applications, event and activity, mining and mobile multimedia applications, search, summarization and visualization, visualization and advanced multimedia systems, and the special sessions: interactive and immersive entertainment and communication, multimedia preservation: how to ensure multimedia access over time, multi-modal and cross-modal search, and video surveillance.

**Features**
This book constitutes the refereed proceedings of the 18th International Multimedia Modeling Conference, MMM 2012, held in Klagenfurt, Austria, in January 2012. The 38 revised regular papers, 12 special session papers, 15 poster session papers, and 6 demo session papers were carefully reviewed and selected from 142 submissions. The papers are organized in the following topical sections: annotation, annotation and interactive multimedia applications, event and activity, mining and mobile multimedia applications, search, summarization and visualization, visualization and advanced multimedia systems, and the special sessions: interactive and immersive entertainment and communication, multimedia preservation: how to ensure multimedia access over time, multi-modal and cross-modal search, and video surveillance.

**Fields of interest**
Multimedia Information Systems; Information Systems Applications (incl. Internet); Information Storage and Retrieval; Pattern Recognition; Database Management; Image Processing and Computer Vision

**Target groups**
Research

**Type of publication**
Proceedings

**Due: December 15, 2011**


$131.00
ISBN 978-3-642-27354-4
Analysis of Verbal and Nonverbal Communication and Enactment. The Processing Issues

COST 2102 International Conference, Budapest, Hungary, September 7-10, 2010, Revised Selected Papers

This volume brings together the advanced research results obtained by the European COST Action 2102 "Cross Modal Analysis of Verbal and Nonverbal Communication", primarily discussed at the PINK SSPnet-COST2102 International Conference on Analysis of Verbal and Nonverbal Communication and Enactment: The Processing Issues, held in Budapest, Hungary, in September 2010. The 40 papers presented were carefully reviewed and selected for inclusion in the book. The volume is arranged into two scientific sections. The first section, Multimodal Signals: Analysis, Processing and Computational Issues, deals with conjunctural and processing issues of defining models, algorithms, and heuristic strategies for data analysis, coordination of the data flow and optimal encoding of multi-channel verbal and nonverbal features. The second section, Verbal and Nonverbal Social Signals, presents original studies that provide theoretical and practical solutions to the modelling of timing synchronization between linguistic and [...] Features

This volume brings together the advanced research results obtained by the European COST Action 2102 "Cross Modal Analysis of Verbal and Nonverbal Communication", primarily discussed at the PINK SSPnet-COST2102 International Conference on Analysis of Verbal and Nonverbal Communication and Enactment: The Processing Issues, held in Budapest, Hungary, in September 2010. The 40 papers presented were carefully reviewed and selected for inclusion in the book. The volume is arranged into two scientific sections. The first section, Multimodal Signals: Analysis, Processing and Computational Issues, deals with conjunctural and processing issues of defining models, algorithms, and heuristic strategies for data analysis, coordination of the data flow and optimal encoding of multi-channel verbal and nonverbal features. The second section, Verbal and Nonverbal Social Signals, presents original studies that provide theoretical and practical solutions to the modelling of timing synchronization between linguistic and [...] Fields of interest

Artificial Intelligence (incl. Robotics); Language Translation and Linguistics; Information Storage and Retrieval; Document Preparation and Text Processing; Algorithm Analysis and Problem Complexity; Information Systems Applications (incl.Internet)

Target groups

Research

Type of publication

Proceedings

Due: January 7, 2012

2011. X, 199 p. 31 illus. (Lecture Notes in Artificial Intelligence, Vol. 7099) Softcover

$72.00

ISBN 978-3-642-25916-6

Anaphora Processing and Applications

8th Discourse Anaphora and Anaphor Resolution Colloquium, DAARC 2011, Faro, Portugal, October 6-7, 2011. Revised Selected Papers

This book constitutes the refereed proceedings of the 8th Discourse Anaphora and Anaphor Resolution Colloquium, DAARC 2011, held in Faro, Portugal, in October 2011. The 16 revised full papers presented were carefully reviewed and selected from 45 initial submissions. The papers are organized in topical sections on computational resolution methodology and systems; language analysis and representation; and human processing and performance. Features

This book constitutes the refereed proceedings of the 8th Discourse Anaphora and Anaphor Resolution Colloquium, DAARC 2011, held in Faro, Portugal, in October 2011. The 16 revised full papers presented were carefully reviewed and selected from 45 initial submissions. The papers are organized in topical sections on computational resolution methodology and systems; language analysis and representation; and human [...] Fields of interest

Artificial Intelligence (incl. Robotics); Language Translation and Linguistics; Information Storage and Retrieval; Document Preparation and Text Processing; Algorithm Analysis and Problem Complexity; Information Systems Applications (incl.Internet)

Target groups

Research

Type of publication

Proceedings

Due: January 7, 2012

2011. X, 199 p. 31 illus. (Lecture Notes in Artificial Intelligence, Vol. 7099) Softcover

$72.00

ISBN 978-3-642-25916-6

Building the e-World Ecosystem

11th IFIP WG 6.11 Conference on e-Business, e-Services, and e-Society, I3E 2011, Kaunas, Lithuania, October 12-14, 2011, Revised Selected Papers

This book constitutes the thoroughly refereed post-conference proceedings of the 11th IFIP WG 6.11 Conference on e-Business, e-Services and e-Society, I3E 2011, held in Kaunas, Lithuania, in October 2011. The 25 revised papers presented were carefully reviewed and selected from numerous submissions. They are organized in the following topical sections: e-government and e-governance, e-services, digital goods and products, e-business process modeling and re-engineering, innovative e-business models and implementation, e-health and e-education, and innovative e-business models. Features

This book constitutes the thoroughly refereed post-conference proceedings of the 11th IFIP WG 6.11 Conference on e-Business, e-Services and e-Society, I3E 2011, held in Kaunas, Lithuania, in October 2011. The 25 revised papers presented were carefully reviewed and selected from numerous submissions. They are organized in the following topical sections: e-government and e-governance, e-services, digital goods [...] Fields of interest

Computers and Society; Computer Communication Networks; Information Systems Applications (incl.Internet); Management of Computing and Information Systems; Information Storage and Retrieval; Software Engineering

Target groups

Research

Type of publication

Proceedings

Due: December 8, 2011


$129.00

ISBN 978-3-642-27259-2
Cloud Computing for Enterprise Architectures

This important text provides a single point of reference for state-of-the-art cloud computing design and implementation techniques. The book examines cloud computing from the perspective of enterprise architecture, asking the question: how do we realize new business potential with our existing enterprises? Topics and features: with a Foreword by Thomas Erl; contains contributions from an international selection of preeminent experts; presents the state-of-the-art in enterprise architecture approaches with respect to cloud computing models, frameworks, technologies, and applications; discusses potential research directions, and technologies to facilitate the realization of emerging business models through enterprise architecture approaches; provides relevant theoretical frameworks, and the latest empirical research findings.

Features
An understanding of cloud technology innovation is becoming increasingly essential for IT practitioners, as entrepreneurs realise the business requirements, fulfilment potential of an enterprise perspective of cloud computing. This important text provides a single point of reference for state-of-the-art cloud computing design and implementation techniques. The book examines cloud computing from the [...]

Contents

Fields of interest
Computer Communication Networks; Business Information Systems

Target groups
Professional/practitioner

Type of publication
Professional book

Usually dispatched within 3 to 5 business days

2011. XVI, 327 p. 85 illus. (Computer Communications and Networks) Hardcover

$159.00

Communicating with XML

This book provides extensive insight into the possibilities and challenges of XML in building new information management solutions in networked organizations. After a brief introduction to Web communication features and XML fundamentals, the book examines the benefits of adopting XML and illustrates various types of XML use: XML in document management; XML for data-centric and multimedia components; XML as a format for metadata, including metadata for the Semantic Web; and XML in support of data interchange between software applications and among organizations. The challenges of adopting XML in large-scale information management are also discussed. In addition, applications across a broad spectrum are examined and numerous case studies pertaining to the adoption of XML are presented. The book is particularly suitable for courses offered in Information Studies, Information Systems, or Information Technology. It also serves as an excellent practical guide for professionals in information management.[...]

Features
This book provides extensive insight into the possibilities and challenges of XML in building new information management solutions in networked organizations. After a brief introduction to Web communication features and XML fundamentals, the book examines the benefits of adopting XML and illustrates various types of XML use: XML in large-scale information management are also discussed. In addition, applications across a broad spectrum are examined and numerous case studies pertaining to the adoption of XML are presented. The book is particularly suitable for courses offered in Information Studies, Information Systems, or Information Technology. It also serves as an excellent practical guide for professionals in information management.[...]

Contents
Setting the Stage.- Fundamentals.- Why use XML?- Document Management.- Data-Centric and Multimedia Components.- Metadata.- Data Interchange.- Adopting XML for Large-Scale Information.- Introduction to XHTML.- History of XML.- Extended Backus-Naur Form (EBNF).- XML in document management; XML for data-centric and multimedia components; XML as a [...]

Fields of interest
Information Systems Applications (incl.Internet); Document Preparation and Text Processing; Information Systems and Communication Service; Business Information Systems

Target groups
Professional/practitioner

Type of publication
Professional book

Usually dispatched within 3 to 5 business days

2011. XIII, 224 p. 49 illus. Hardcover

$79.95

Computability and Complexity Theory

This revised and extensively expanded edition of Computability and Complexity Theory comprises essential materials that are core knowledge in the theory of computation. The book is self-contained, with a preliminary chapter describing key mathematical concepts and notations. Subsequent chapters move from the qualitative aspects of classical computability theory to the quantitative aspects of complexity theory. Dedicated chapters on undecidability, NP-completeness, and relative computability focus on the limitations of computability and the distinctions between feasible and intractable. Substantial new content in this edition includes a chapter on nonuniformity studying Boolean circuits, advice classes and the important result of Karp#Lipton. A chapter studying properties of the fundamental probabilistic complexity classes: a study of the alternating Turing machine and uniform circuit classes, an introduction of counting classes, proving the famous results of Valiant and Vazirani and of Todaa thorough[...]

Features
This revised and extensively expanded edition of Computability and Complexity Theory comprises essential materials that are core knowledge in the theory of computation. The book is self-contained, with a preliminary chapter describing key mathematical concepts and notations. Subsequent chapters move from the qualitative aspects of classical computability theory to the quantitative aspects of complexity theory.[...]

Contents

Fields of interest
Theory of Computation; Algorithm Analysis and Problem Complexity

Target groups
Research

Type of publication
Graduate/advanced undergraduate textbook

Usually dispatched within 3 to 5 business days

2011. XVI, 298 p. 50 illus. (Texts in Computer Science) Hardcover

$69.95
Computer Information Systems - Analysis and Technologies
10th International Conference, CISIM 2011, held in Kolkata, India, December 14-16, 2011, Proceedings

This book constitutes the refereed proceedings of the 10th International Conference on Computer Information Systems, CISIM 2011, held in Kolkata, India, in December 2011. The 30 revised full papers presented together with 6 keynote talks and plenary lectures were carefully reviewed and selected from 67 submissions. The papers are organized in topical sections on networking and its applications; agent-based systems; biometric applications; pattern recognition and image processing; industrial applications; algorithmic applications and data management; information and network security.

Features
This book constitutes the refereed proceedings of the 10th International Conference on Computer Information Systems, CISIM 2011, held in Kolkata, India, in December 2011. The 30 revised full papers presented together with 6 keynote talks and plenary lectures were carefully reviewed and selected from 67 submissions. The papers are organized in topical sections on networking and its applications; agent-based systems; biometric applications; pattern recognition and image processing; industrial applications; algorithmic applications and data management; information and network security.

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

Target groups
Research

Type of publication
Proceedings

Due: December 21, 2011

2011. 338 p. (Communications in Computer and Information Science, Vol. 245) Softcover

$95.00
ISBN 978-3-642-27244-8

Computer Science

The Hardware, Software and Heart of It

Computer Science: The Hardware, Software and Heart of It focuses on the deeper aspects of the two recognized subdivisions of Computer Science, Software and Hardware. These subdivisions are shown to be closely interrelated as a result of the stored-program concept. Computer Science: The Hardware, Software and Heart of It includes certain classical theoretical computer science topics such as Unsolvability (e.g. the halting problem) and Undecidability (e.g. Godel’s incompleteness theorem) that treat problems that exist under the Church-Turing thesis of computation. These problem topics explain inherent limits lying at the heart of software, and in effect define boundaries beyond which computer science professionals cannot go beyond. Newer topics such as Cloud Computing are also covered in this book. After a survey of traditional programming languages (e.g. Fortran and C++), a new kind of computer Programming for parallel/distributed computing is presented using the message-passing paradigm which is at[...]

Features
Computer Science: The Hardware, Software and Heart of It focuses on the deeper aspects of the two recognized subdivisions of Computer Science, Software and Hardware. These subdivisions are shown to be closely interrelated as a result of the stored-program concept. Computer Science: The Hardware, Software and Heart of It includes certain classical theoretical computer science topics such as [...]

Contents

Fields of interest
Software Engineering; Theory of Computation; Mathematical Logic and Formal Languages; Computer Communication Networks; Database Management; Programming Languages, Compilers, Interpreters

Target groups
Professional/practitioner

Type of publication
Professional book

Usually dispatched within 3 to 5 business days


$99.00

Computer Vision and Action Recognition

A Guide for Image Processing and Computer Vision Community for Action Understanding

Human action analyses and recognition are challenging problems due to large variations in human motion and appearance, camera viewpoint and environment settings. The field of action and activity representation and recognition is relatively old, yet not well-understood by the students and research community. Some important but common motion recognition problems are even now unsolved properly by the computer vision community. However, in the last decade, a number of good approaches are proposed and evaluated subsequently by many researchers. Among those methods, some methods get significant attention from many researchers in the computer vision field due to their better robustness and performance. This book will cover gap of information and materials on comprehensive outlook – through various strategies from the scratch to the state-of-the-art on computer vision regarding action recognition approaches. This book will target the students and researchers who have knowledge on image processing at a basic[...]

Features
. Contents

Fields of interest
Computer Imaging, Vision, Pattern Recognition and Graphics; Image Processing and Computer Vision; Pattern Recognition; Computer-Aided Engineering (CAI, CAE) and Design

Target groups
Research

Type of publication
Monograph

Usually dispatched within 3 to 5 business days

2011, XXI, 211 p. 48 illus., 38 in color. (Atlantis Ambient Intelligence, Vol. 5) Hardcover

$99.00


This book constitutes the refereed proceedings of the International Conference, VISIGRAPP 2010, the Joint Conference on Computer Vision Theory and Applications (VISAPP), on Imaging Theory and Applications (IMAGAPP), and on Computer Graphics Theory and Applications (GRAPP), held in Angers, France, in May 2010. The 19 revised full papers presented together with two invited papers were carefully reviewed and selected. The papers are organized in topical sections on computer vision theory and applications; imaging theory and applications; computer graphics theory and applications; and information visualization theory and applications.

Features
This book constitutes the refereed proceedings of the International Conference, VISIGRAPP 2010, the Joint Conference on Computer Vision Theory and Applications (VISAPP), on Imaging Theory and Applications (IMAGAPP), and on Computer Graphics Theory and Applications (GRAPP), held in Angers, France, in May 2010. The 19 revised full papers presented together with two invited papers were carefully reviewed and selected. The papers are organized in topical sections on computer vision theory and applications; imaging theory and applications; computer graphics theory and applications; and information visualization theory and applications.

Fields of interest
Computer Imaging, Vision, Pattern Recognition and Graphics; Image Processing and Computer Vision; Computer Graphics; Pattern Recognition; Algorithm Analysis and Problem Complexity; Computer Applications

Target groups
Research

Type of publication
Proceedings

Due: December 9, 2011

2011. XV, 319 p. (Communications in Computer and Information Science, Vol. 229) Softcover

$95.00
ISBN 978-3-642-25381-2

Curves and Surfaces

7th International Conference, Avignon, France, June 24-30, 2010. Revised Selected Papers

This volume constitutes the thoroughly refereed post-conference proceedings of the 7th International Conference on Curves and Surfaces, held in Avignon, in June 2010. The conference had the overall theme: ‘Representation and Approximation of Curves and Surfaces and Applications’. The 39 revised full papers presented together with 9 invited talks were carefully reviewed and selected from 114 talks presented at the conference. The topics addressed by the papers range from mathematical foundations to practical implementation on modern graphics processing units and address a wide area of topics such as computer-aided geometric design, computer graphics and visualisation, computational geometry and topology, geometry processing, image and signal processing, interpolation and smoothing, scattered data processing and learning theory and subdivision, wavelets and multi-resolution methods.

Features
This volume constitutes the thoroughly refereed post-conference proceedings of the 7th International Conference on Curves and Surfaces, held in Avignon, in June 2010. The conference had the overall theme: ‘Representation and Approximation of Curves and Surfaces and Applications’. The 39 revised full papers presented together with 9 invited talks were carefully reviewed and selected from 114 talks presented at the conference.

Fields of interest
Computer Imaging, Vision, Pattern Recognition and Graphics; Image Processing and Computer Vision; Computer Graphics; Pattern Recognition; Algorithm Analysis and Problem Complexity; Computer Applications

Target groups
Research

Type of publication
Proceedings

Due: January 7, 2012


$131.00
ISBN 978-3-642-27412-1

Dark Web

Exploring and Data Mining the Dark Side of the Web

The University of Arizona Artificial Intelligence Lab (AI Lab) Dark Web project is a long-term scientific research program that aims to study and understand the international terrorism (Jihadist) phenomena via a computational, data-centric approach. We aim to collect ‘ALL’ web content generated by international terrorist groups, including web sites, forums, chat rooms, blogs, social networking sites, videos, virtual world, etc. We have developed various multilingual data mining, text mining, and web mining techniques to perform link analysis, content analysis, web metrics (technical sophistication) analysis, sentiment analysis, authorship analysis, and video analysis in our research. The approaches and methods developed in this project contribute to advancing the field of Intelligence and Security Informatics (ISI). Such advances will help related stakeholders to perform terrorism research and facilitate international security and peace. This monograph aims to provide an overview of the Dark Web...[

Features
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Contents

Fields of interest
Data Mining and Knowledge Discovery; Business Information Systems; Operation Research / Decision Theory

Target groups
Research

Type of publication
Monograph

Usually dispatched within 3 to 5 business days


$189.00
Datalog Reloaded

This book constitutes the thoroughly refereed post-workshop proceedings of the First International Workshop on Datalog 2.0, held in Oxford, UK, in March 2010. The 22 revised full papers presented were carefully selected during two rounds of reviewing and improvements from numerous submissions. The papers showcase the state-of-the-art in theory and systems for datalog, divided in three sections: Properties, applications, and extensions of datalog.

Fields of interest
Information Systems Applications (incl.Internet); Computer Communication Networks; Information Storage and Retrieval; Artificial Intelligence (incl. Robotics); Software Engineering; Mathematical Logic and Formal Languages

Target groups
Research

Type of publication
Proceedings

Due: December 31, 2011


$95.00
ISBN 978-3-642-24205-2

Digital Libraries and Archives
7th Italian Research Conference, IRCDL 2011, Pisa, Italy, January 20-21, 2011. Revised Papers

This book constitutes the thoroughly refereed proceedings of the 7th Italian Research Conference on Digital Libraries held in Pisa, Italy, in January 2011. The 20 revised full papers presented were carefully reviewed and cover topics of interest such as system interoperability and data integration; formal and methodological foundations of digital libraries; semantic web and linked data for digital libraries; multilingual information access; digital library infrastructures; metadata creation and management; search engines for digital library systems; evaluation and log data; handling audio/visual and non-traditional objects; user interfaces and visualization; digital library quality.

Fields of interest
Information Storage and Retrieval; User Interfaces and Human Computer Interaction; Database Management; Information Systems Applications (incl.Internet); Data Mining and Knowledge Discovery; Information Systems and Communication Service

Target groups
Research

Type of publication
Proceedings

Due: December 7, 2011

2011. XI. 161 p. 23 illus. (Communications in Computer and Information Science, Vol. 249) Softcover

$84.00
ISBN 978-3-642-27301-8

Distributed Computing and Networking
13th International Conference, ICDCN 2012, Hong Kong, China, January 3-6, 2012. Proceedings

This book constitutes the refereed proceedings of the 13th International Conference on Distributed Computing and Networking, ICDCN 2012, held in Hong Kong, China, during January 3-6, 2012. The 36 revised full papers and 1 short paper presented together with 4 poster papers were carefully reviewed and selected from 100 submissions. The papers address all current issues in the field of distributed computing and networking. Being a leading forum for researchers and practitioners to exchange ideas and share best practices, ICDCN also hosts as a forum for PhD students to discuss their research ideas and get quality feedback from the well-renowned experts in the field of distributed computing and networking.

Fields of interest
Computer Communication Networks; Programming Techniques; Software Engineering; Systems and Data Security; Algorithm Analysis and Problem Complexity; Information Systems Applications (incl.Internet)

Target groups
Research

Type of publication
Proceedings

Due: December 13, 2011


$107.00
ISBN 978-3-642-25958-6
Distributed User Interfaces
Designing Interfaces for the Distributed Ecosystem

The recent advances in display technologies and mobile devices are having an important effect on the way users interact with all kinds of devices (computers, mobile devices, laptops, tablets, and so on). These are opening up new possibilities for interaction, including the distribution of the UI (User Interface) amongst different devices, and implies that the UI can be split and composed, moved, copied or cloned among devices running the same or different operating systems. These new ways of manipulating the UI are considered under the emerging topic of Distributed User Interfaces (DUIs). DUIs are concerned with the reparation of one of many elements from one or many user interfaces in order to support one or many users to carry out one or many tasks on one or many domains in one or many contexts of use – each context of use consisting of users, platforms, and environments. The 20 chapters in the book cover between them the state-of-the-art, the foundations, and original applications of DUIs. Case [...] 

Features
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Contents

Fields of interest
User Interfaces and Human Computer Interaction; Information Systems and Communication Service; Models and Principles; Information Systems Applications (incl.Internet); Multimedia Information Systems

Target groups
Graduate

Type of publication
Contributed volume

Usually dispatched within 3 to 5 business days

2011. XVI, 190 p. 166 illus., 68 in color. (Human–Computer Interaction Series) Hardcover

$99.00
ISBN 978-1-4471-2270-8

Formal Methods for Components and Objects
9th International Symposium, FMCO 2010, Graz, Austria, November 29 - December 1, 2010

The focus in development methodologies of large and complex software systems has switched in the last two decades from functional issues to structural issues; this holds for both the object-oriented and the more recent component-based software engineering paradigms. Formal methods have been applied successfully to the verification of medium-sized programs in protocol and hardware design for quite a long time. However, their application to the development of large systems requires more emphasis on specification, modeling and validation techniques supporting the concepts of reusability and modifiability, and their implementation in new extensions of existing programming languages like Java. This state-of-the-art survey presents the outcome of the 9th Symposium on Formal Methods for Components and Objects, held in Graz, Austria, in November/December 2010. The volume contains 20 revised contributions submitted after the symposium by speakers from each of the following European IST projects: the FP7-IST [...] 

Features
The focus in development methodologies of large and complex software systems has switched in the last two decades from functional issues to structural issues; this holds for both the object-oriented and the more recent component-based software engineering paradigms. Formal methods have been applied successfully to the verification of medium-sized programs in protocol and hardware design for quite a long time. [...] 

Contents

Fields of interest
Software Engineering; Programming Languages, Compilers, Interpreters; Operating Systems; Logics and Meanings of Programs; Software Engineering / Programming and Operating Systems; Programming Techniques

Target groups
Research

Type of publication
Proceedings

Due: March 31, 2012


$83.00
ISBN 978-3-642-25270-9
Foundations of Algebraic Specification and Formal Software Development

This book provides foundations for software specification and formal software development from the perspective of work on algebraic specification, concentrating on developing basic concepts and studying their fundamental properties. These foundations are built on a solid mathematical basis, using elements of universal algebra, category theory, and logic, and this mathematical toolbox provides a convenient language for precisely formulating the concepts involved in software specification and development. Once formally defined, these notions become subject to mathematical investigation, and this interplay between mathematics and software engineering yields results that are mathematically interesting, conceptually revealing, and practically useful. The theory presented by the authors has its origins in work on algebraic specifications that started in the early 1970s, and their treatment is comprehensive. This book contains five kinds of material: the requisite mathematical foundations; traditional [...]Features

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Fields of interest

Logics and Meanings of Programs; Software Engineering / Programming and Operating Systems; Mathematical Logic and Foundations; Category Theory; Homological Algebra

Target groups

Graduate

Type of publication

Graduate/advanced undergraduate textbook

Graph-Theoretic Concepts in Computer Science

37th International Workshop, WG 2011, Teplá Monastery, Czech Republic, June 21-24, 2011, Revised Papers

This book constitutes the revised selected papers of the 37th International Workshop on Graph-Theoretic Concepts in Computer Science, WG 2011, held at Teplá Monastery, Czech Republic, in June 2011. The 28 revised papers presented were carefully reviewed and selected from 52 submissions. The workshop aims at merging theory and practice by demonstrating how concepts from graph theory can be applied to various areas in computer science, and by extracting new graph theoretic problems from applications.

Features

This book constitutes the revised selected papers of the 37th International Workshop on Graph-Theoretic Concepts in Computer Science, WG 2011, held at Teplá Monastery, Czech Republic, in June 2011. The 28 revised papers presented were carefully reviewed and selected from 52 submissions. The workshop aims at merging theory and practice by demonstrating how concepts from graph theory can be applied to various [...]Fields of interest

Discrete Mathematics in Computer Science; Algorithm Analysis and Problem Complexity; Geometry; Algorithms; Computer Communication Networks; Data Structures

Target groups

Research

Type of publication

Proceedings

Due: December 7, 2011


$83.00

ISBN 978-3-642-25869-5

Handbook of Data Intensive Computing

Data Intensive Computing refers to capturing, managing, analyzing, and understanding data at volumes and rates that push the frontiers of current technologies. The challenge of data intensive computing is to provide the hardware architectures and related software systems and techniques which are capable of transforming ultra-large data into valuable knowledge. Handbook of Data Intensive Computing is written by leading international experts in the field. Experts from academia, research laboratories and private industry address both theory and application. Data intensive computing demands a fundamentally different set of principles than mainstream computing. Data-intensive applications typically are well suited for large-scale parallelism over the data and also require an extremely high degree of fault-tolerance, reliability, and availability. Real-world examples are provided throughout the book. Handbook of Data Intensive Computing is designed as a reference for practitioners and researchers.[...]

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Contents


Fields of interest

Database Management; Data Storage Representation; Business Information Systems; Special Purpose and Application-Based Systems; Computer System Implementation; Computer Applications

Target groups

Professional/practitioner

Type of publication

Handbook

Usually dispatched within 3 to 5 business days

2011. XVIII, 793 p. 297 illus. Hardcover

$199.00

Information Computing and Applications, Part II


The two-volume set, CCIS 243 and CCIS 244, constitutes the refereed proceedings of the Second International Conference on Information Computing and Applications, ICICA 2010, held in Qinhuangdao, China, in October 2011. The 191 papers presented in both volumes were carefully reviewed and selected from numerous submissions. They are organized in topical sections on computational statistics, social networking and computing, evolutionary computing and applications, information education and application, internet and web computing, scientific and engineering computing, system simulation computing, bio-inspired and DNA computing, internet and Web computing, multimedia networking and computing, parallel and distributed computing.

Features
The two-volume set, CCIS 243 and CCIS 244, constitutes the refereed proceedings of the Second International Conference on Information Computing and Applications, ICICA 2010, held in Qinhuangdao, China, in October 2011. The 191 papers presented in both volumes were carefully reviewed and selected from numerous submissions. They are organized in topical sections on computational statistics, social networking and computing, evolutionary computing and applications, information education and application, internet and web computing, scientific and engineering computing, system simulation computing, bio-inspired and DNA computing, internet and Web computing, multimedia networking and computing, parallel and distributed computing.

Fields of interest
Computer Communication Networks; Algorithm Analysis and Problem Complexity; Software Engineering; Software Engineering / Programming and Operating Systems; Theory of Computation; Computer Systems Organization and Communication Networks

Target groups
Research

Type of publication
Proceedings

Due: December 4, 2011


$131.00
ISBN 978-3-642-25254-9

Information Computing and Applications


This book constitutes the refereed proceedings of the Second International Conference on Information Computing and Applications, ICICA 2010, held in Qinhuangdao, China, in October 2011. The 97 papers presented were carefully reviewed and selected from numerous submissions. They are organized in topical sections on computational economics and finance, computational statistics, mobile computing and applications, social networking and computing, intelligent computing and applications, internet and Web computing, parallel and distributed computing, and system simulation and computing.

Features
This book constitutes the refereed proceedings of the Second International Conference on Information Computing and Applications, ICICA 2010, held in Qinhuangdao, China, in October 2011. The 97 papers presented were carefully reviewed and selected from numerous submissions. They are organized in topical sections on computational statistics, social networking and computing, evolutionary computing and applications, information education and application, internet and web computing, scientific and engineering computing, system simulation computing, bio-inspired and DNA computing, internet and Web computing, multimedia networking and computing, parallel and distributed computing.

Fields of interest
Computer Communication Networks; Algorithm Analysis and Problem Complexity; Software Engineering; Information Systems Applications (incl.Internet); Probability and Statistics in Computer Science; Business Information Systems

Target groups
Research

Type of publication
Proceedings

Due: December 4, 2011

2011. Approx. 745 p. (Communications in Computer and Information Science, Vol. 244) Softcover

$143.00
ISBN 978-3-642-27451-0

Information Computing and Applications


The two-volume set, CCIS 243 and CCIS 244, constitutes the refereed proceedings of the Second International Conference on Information Computing and Applications, ICICA 2010, held in Qinhuangdao, China, in October 2011. The 191 papers presented in both volumes were carefully reviewed and selected from numerous submissions. They are organized in topical sections on computational statistics, social networking and computing, evolutionary computing and applications, information education and application, internet and web computing, scientific and engineering computing, system simulation computing, bio-inspired and DNA computing, internet and Web computing, multimedia networking and computing, parallel and distributed computing.

Features
The two-volume set, CCIS 243 and CCIS 244, constitutes the refereed proceedings of the Second International Conference on Information Computing and Applications, ICICA 2010, held in Qinhuangdao, China, in October 2011. The 191 papers presented in both volumes were carefully reviewed and selected from numerous submissions. They are organized in topical sections on computational statistics, social networking and computing, evolutionary computing and applications, information education and application, internet and web computing, scientific and engineering computing, system simulation computing, bio-inspired and DNA computing, internet and Web computing, multimedia networking and computing, parallel and distributed computing.

Fields of interest
Computer Communication Networks; Algorithm Analysis and Problem Complexity; Software Engineering; Software Engineering / Programming and Operating Systems; Theory of Computation; Computer Systems Organization and Communication Networks

Target groups
Research

Type of publication
Proceedings

Due: December 5, 2011


$143.00
ISBN 978-3-642-27502-9
Interactive Decision Aids in E-Commerce

This book gives recommendations on which interactive decision aids to offer in webstores. Interactive decision aids are tools that help online shoppers to compare and evaluate product information. Consumers can, for instance, exclude products that do not meet certain criteria, they can highlight certain information or they can assign ratings of different kinds. Interactive decision aids are important, because finding the preferred product in a short amount of time increases both the customers’ satisfaction and, in turn, the sales volume. This book includes a detailed description of decision aids, closely studies how decision aids are related to the decision behavior of customers, and develops a comprehensive system of decision aids, which is very flexible, increases both customer satisfaction and confidence, and can be used intuitively. The close link between typical behaviors and the decision aids allows webstores to learn about customers’ decision-making behavior by using a simple click stream.

Features

This book gives recommendations on which interactive decision aids to offer in webstores. Interactive decision aids are tools that help online shoppers to compare and evaluate product information. Consumers can, for instance, exclude products that do not meet certain criteria, they can highlight certain information or they can assign ratings of different kinds. Interactive decision aids are important.

Contents

- Analysis of Decision-Making Behaviour
- Decision Support with Interactive Decision Aids

Fields of interest

e-commerce / e-business; User Interfaces and Human Computer Interaction; Technology Management; Marketing; Business & Management Science

Type of publication

Proceedings

Due: December 26, 2011


$119.00

ISBN 978-3-642-25630-1

Learning and Intelligent Optimization

This book constitutes the thoroughly refereed post-conference proceedings of the 5th International Conference on Learning and Intelligent Optimization, LION 5, held in Rome, Italy, in January 2011. The 32 revised regular and 3 revised short papers were carefully reviewed and selected from a total of 99 submissions. In addition to the contributions to the general track there are 11 full papers and 3 short papers presented at the following four special sessions: IMON: Intelligent Multiobjective Optimization, LION-PP: Performance Prediction Self* EAs: Self-tuning, self-configuring and self-generating evolutionary algorithms, LION-SWAP: Software and Applications.

Features

This book constitutes the thoroughly refereed post-conference proceedings of the 5th International Conference on Learning and Intelligent Optimization, LION 5, held in Rome, Italy, in January 2011. The 32 revised regular and 3 revised short papers were carefully reviewed and selected from a total of 99 submissions. In addition to the contributions to the general track there are 11 full papers and 3 short papers presented at the following four special sessions: IMON: Intelligent Multiobjective Optimization, LION-PP: Performance Prediction Self* EAs: Self-tuning, self-configuring and self-generating evolutionary algorithms, LION-SWAP: Software and Applications.

Fields of interest

- Algorithm Analysis and Problem Complexity
- Computation by Abstract Devices
- Artificial Intelligence (incl. Robotics)
- Computer Communication Networks
- Pattern Recognition
- Discrete Mathematics in Computer Science

Type of publication

Proceedings

Due: December 9, 2011


$119.00

ISBN 978-3-642-25565-6
Mensch-Computer-Interaktion

Basiswissen für Entwickler und Gestalter


Features

Jeder hat das schon einmal erlebt: Webseiten, auf denen man die Schrift nicht lesen kann, Informationsterminals, bei denen man nicht erkennt, wo man drücken soll, Programme, die unverständliche Meldungen hervorbringen, kurz: Software, die nicht gebrauchstauglich ist. Dieses Buch enthält Basiswissen, das alle benötigen, die gebrauchstaugliche Software erstellen wollen. Ausgehend von der menschlichen ...

IFIP WG 6.3/7.3 International Workshop, PERFORM 2010, in Honor of Günter Haring on the Occasion of His Emeritus Celebration, Vienna, Austria, October 14-16, 2010, Revised Selected Papers

This Festschrift volume is published in honor of Günter Haring on the occasion of his emeritus celebration and contains invited papers by key researchers in the field of performance evaluation presented at the workshop Performance Evaluation of Computer and Communication Systems - Milestones and Future Challenges, PERFORM 2010, held in Vienna, Austria, in October 2010. Günter Haring has dedicated most of his scientific professional life to performance evaluation and the design of distributed systems, contributing in particular to the field of workload characterization. In addition to his own contributions and leadership in international research projects, he is and has been an excellent mentor of young researchers demonstrated by their own brilliant scientific careers. The 20 thoroughly refereed papers range from visionary to in-depth research papers and are organized in the following topical sections: milestones and evolutions; trends: green ICT and virtual machines; modeling; mobility and mobile[...]

Contents

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

Target groups
Research

Type of publication
Proceedings

Due: December 12, 2011


$94.00
ISBN 978-3-642-25574-8

Practical Aspects of Declarative Languages


This book constitutes the refereed proceedings of the 14th International Symposium on Practical Aspects of Declarative Languages, PADL 2012, held in Philadelphia, PA, USA, in January 2012, co-located with POPL 2012, the 39th Symposium on Principles of Programming Languages. The 38 revised technical papers presented together with 3 application papers were carefully reviewed and selected from 52 submissions. The volume features original work emphasizing new ideas and approaches pertaining to applications and implementation techniques of declarative languages and addresses topics such as innovative applications of declarative languages, declarative domain-specific languages and applications, practical applications of theoretical results, new language developments and their impact on applications, evaluation of implementation techniques on practical applications, novel implementation techniques relevant to applications, novel uses of declarative languages in the classroom, and practical experiences.

Features
This book constitutes the refereed proceedings of the 14th International Symposium on Practical Aspects of Declarative Languages, PADL 2012, held in Philadelphia, PA, USA, in January 2012, co-located with POPL 2012, the 39th Symposium on Principles of Programming Languages. The 38 revised technical papers presented together with 3 application papers were carefully reviewed and selected from 52 submissions.[...]

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

Target groups
Research

Type of publication
Proceedings

Due: January 30, 2012


$83.00
ISBN 978-3-642-27693-4
Principles of Distributed Systems


This book constitutes the refereed proceedings of the 15th International Conference on Principles of Distributed Systems, OPODIS 2011, held in Toulouse, France, in December 2011. The 26 revised papers presented in this volume were carefully reviewed and selected from 96 submissions. They represent the current state of the art of the research in the field of the design, analysis and development of distributed and real-time systems.

Features
This book constitutes the refereed proceedings of the 15th International Conference on Principles of Distributed Systems, OPODIS 2011, held in Toulouse, France, in December 2011. The 26 revised papers presented in this volume were carefully reviewed and selected from 96 submissions. They represent the current state of the art of the research in the field of the design, analysis and development of [...]
Serious Games and Edutainment Applications

The recent re-emergence of serious games as a branch of video games and as a promising frontier of education has introduced the concept of games designed for a serious purpose other than pure entertainment. To date the major applications of serious games include education and training, engineering, medicine and healthcare, military applications, city planning, production, crisis response, to name just a few. If utilised alongside, or combined with conventional training and educational approaches, serious games could provide a more powerful means of knowledge transfer in almost every application domain. Serious Games and Edutainment Applications offers an insightful introduction to the development and applications of games technologies in educational settings. It includes cutting-edge academic research and industry updates that will inform readers of current and future advances in the area. The book is suitable for both researchers and educators who are interested in using games for educational[...]

Features

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Fields of interest

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

Target groups

Research

Type of publication

Proceedings

Due: December 14, 2011


$83.00
ISBN 978-3-642-25866-4

Smart Card Research and Advanced Applications

10th IFIP WG 8.8/11.2 International Conference, CARDIS 2011, Leuven, Belgium, September 14-16, 2011, Revised Selected Papers

This book constitutes the thoroughly refereed post-conference proceedings of the 10th IFIP WG 8.8/11.2 International Conference on Smart Card Research and Advanced Applications, CARDIS 2011, held in Leuven, Belgium, in September 2011. The 20 revised full papers presented were carefully reviewed and selected from 45 submissions. The papers are organized in topical sections on smart cards system security, invasive attacks, new algorithms and protocols, implementations and hardware security, non-invasive attacks, and Java card security.

Features

This book constitutes the thoroughly refereed post-conference proceedings of the 10th IFIP WG 8.8/11.2 International Conference on Smart Card Research and Advanced Applications, CARDIS 2011, held in Leuven, Belgium, in September 2011. The 20 revised full papers presented were carefully reviewed and selected from 45 submissions. The papers are organized in topical sections on smart cards system security, invasive attacks, new algorithms and protocols, implementations and hardware security, non-invasive attacks, and Java card security.

Fields of interest

Computer Communication Networks; Data Encryption; Management of Computing and Information Systems; Algorithm Analysis and Problem Complexity; Software Engineering; Systems and Data Security

Target groups

Research

Type of publication

Proceedings

Due: December 12, 2011


$108.00
ISBN 978-3-642-27256-1

 Serious Games and Edutainment Applications

The recent re-emergence of serious games as a branch of video games and as a promising frontier of education has introduced the concept of games designed for a serious purpose other than pure entertainment. To date the major applications of serious games include education and training, engineering, medicine and healthcare, military applications, city planning, production, crisis response, to name just a few. If utilised alongside, or combined with conventional training and educational approaches, serious games could provide a more powerful means of knowledge transfer in almost every application domain. Serious Games and Edutainment Applications offers an insightful introduction to the development and applications of games technologies in educational settings. It includes cutting-edge academic research and industry updates that will inform readers of current and future advances in the area. The book is suitable for both researchers and educators who are interested in using games for educational[...]
Structure Discovery in Natural Language

Current language technology is dominated by approaches that either enumerate a large set of rules, or are focused on a large amount of manually labelled data. The creation of both is time-consuming and expensive, which is commonly thought to be the reason why automated natural language understanding has still not made its way into “real-life” applications yet. This book sets an ambitious goal: to shift the development of language processing systems to a much more automated setting than previous works. A new approach is defined: what if computers analysed large samples of language data on their own, identifying structural regularities that perform the necessary abstractions and generalisations in order to better understand language in the process? After defining the framework of Structure Discovery and shedding light on the nature and the graphic structure of natural language data, several procedures are described that do exactly this: let the computer discover structures without supervision in order [...]

Features
Current language technology is dominated by approaches that either enumerate a large set of rules, or are focused on a large amount of manually labelled data. The creation of both is time-consuming and expensive, which is commonly thought to be the reason why automated natural language understanding has still not made its way into “real-life” applications yet. This book sets an ambitious goal: to [...]
Earth Sciences

R. Harper, Microsoft Research, Cambridge, UK (Ed.)

The Connected Home: The Future of Domestic Life

The title of this new book: “The Connected Home” reflects the move away from the idea that smart homes would alter the lives of those living in them by providing technologies to take over tasks that were previously the responsibility of the householder, such as managing entertainment, education – and even eating! Up until around 10 years ago this view was commonplace but time has shown that the technologies to support a smart home have not developed in such a way as to support this premise. Instead, what people do in their homes has moved the concept of a smart home into that of the ‘connected home’. The rise of on-line games technologies, video connections via Skype, social networking, internet browsing etc are now an integral part of the home environment and have had a significant effect on the home. The contributors to this exciting new book consider and discuss the effects and ramifications of the connected home from a variety of viewpoints: an examination of the take-up of personal computers, [...] Features

The title of this new book: “The Connected Home” reflects the move away from the idea that smart homes would alter the lives of those living in them by providing technologies to take over tasks that were previously the responsibility of the householder, such as managing entertainment, education – and even eating! Up until around 10 years ago this view was commonplace but time has shown that the technologies [...] Contents

From smart home to connected home - The networked home: The way of the future or a vision too far? - Changing times: home life and domestic habit - Family Life, Children and the Feminization of Computing - The web, the home and the search engine - Changing practices of family television watching - All in the game - Families, peer groups and game playing in the home - Digital words: reading and the 21st century home - Nearness: Family Life and Digital Neighbourhood - Love, Ritual and Videocall - Family Archiving in the Digital Age - Family Archiving in the Digital Age - Remote Care: health att [...] Fields of interest

Personal Computing, Computers and Society

Target groups

Research

Type of publication

Contributed volume

Usually dispatched within 3 to 5 business days

2011. X, 305 p. 36 illus. Softcover

$54.95

Hydrologic Time Series Analysis

Theory and Practice

There is a dearth of relevant books dealing with both theory and application of time series analysis techniques, particularly in the field of water resources engineering. Therefore, many hydrologists and hydrogeologists face difficulties in adopting time series analysis as one of the tools for their research. This book fills this gap by providing a proper blend of theoretical and practical aspects of time series analysis. It deals with a comprehensive overview of time series characteristics in hydrology/water resources engineering, various tools and techniques for analyzing time series data, theoretical details of 31 available statistical tests along with detailed procedures for applying them to real-world time series data, theory and methodology of stochastic modelling, and current status of time series analysis in hydrological sciences. In addition, it demonstrates the application of most time series tests through a case study as well as presents a comparative performance evaluation of various [...] Features

There is a dearth of relevant books dealing with both theory and application of time series analysis techniques, particularly in the field of water resources engineering. Therefore, many hydrologists and hydrogeologists face difficulties in adopting time series analysis as one of the tools for their research. This book fills this gap by providing a proper blend of theoretical and practical aspects of time series analysis [...] Contents


Fields of interest

Hydrogeology; Meteorology / Climatology; Geophysics; Geodesy; Meteorology / Climatology; Geography (general); Climate Change

Target groups

Research

Type of publication

Monograph

Due: February 7, 2012

2012. XII, 604 p. 157 illus., 10 in color. (Environmental Sciences) Hardcover

$179.00
ISBN 978-3-642-13295-7

Earth Sciences

G. A. Sharkov, Russian Academy of Science, Moscow, Russia

GLOBAL TROPICAL CYCLOGENESIS

Cyclogenesis research is a central issue of meteorology and climatology. This book gives a deep specific view and fundamentally and effectively contributes to the discussion of the problem. It treats cyclogenesis as a stochastic process in a very fundamental way. Since the publication of the first edition of Global Tropical Cyclogenesis in 2001, a number of important scientific results has been obtained using methods and techniques proposed in that first edition. There is therefore a great need for a revised 2nd edition of this book. It is based on scientific findings from the performance of satellite data processing and a series of scientific marine expeditions to the tropics as part of major Russian Science Academy research projects. Professor Eugene A. Sharkov has proposed the main approaches, experimental techniques and theoretical explanations for many scientific findings as well as new methods of satellite processing. He is recognized as a leading scientist in the field of microwave remote [...] Features

This book presents the first physical findings of an investigation into the spatio-temporal characteristics of the global tropical cyclogenesis. Since Global Tropical Cyclogenesis was first published in 2001, many important scientific results have been obtained using methods and techniques developed by the author, including: the detection of the global tropical cyclogenesis as a main element of poleward heat [...] Contents

Preface to 2nd Edition - Preface to 1st Edition - Chapter 1 Introduction: scientific and applied rationales for study of the tropical cyclogenesis - Chapter 2 Global tropical cyclogenesis as a stochastic process - Chapter 3 Regional tropical cyclogenesis - Chapter 4 Global Tropical Cyclogenesis and Global Change - Chapter 5 The Sun and tropical cyclones activity - Chapter 6 Ionosphere and tropical cyclones activity - Chapter 7 Physical models and simulations of global tropical cyclogenesis - Chapter 8 Databases of global tropical cyclogenesis - Chapter 9 Remote sensing activity [...] Fields of interest

Geophysics / Geodesy; Meteorology / Climatology; Geography (general); Climate Change

Target groups

Research

Type of publication

Monograph

Usually dispatched within 3 to 5 business days

2012. XII, 604 p. 157 illus., 10 in color. (Environmental Sciences) Hardcover

$179.00
ISBN 978-3-642-13295-7
Cross-Cultural Knowledge Management
Fostering Innovation and Collaboration Inside the Multicultural Enterprise

Cross-cultural knowledge management, an elusive yet consequential phenomenon, is becoming an increasingly essential factor in organizational practice and policy in the era of globalization. In order to overcome culturally shaped blind spots in conducting research in different settings, this volume highlights how the structuring of roles, interests, and power among different organizational elements, such as teams, departments, and management hierarchies (each comprised of members from different intellectual and professional backgrounds), generates various paradoxes and tensions that bring into play a set of dynamics that have an impact on learning processes. In this context, such questions often arise: How is knowledge shared in the multicultural organization? What problems and issues emerge? How do different mentalities affect people’s responses to new knowledge and new ideas? How can knowledge-sharing processes be improved? Under which conditions do ideas generated by units or groups of different [...]

Features
Cross-cultural knowledge management, an elusive yet consequential phenomenon, is becoming an increasingly essential factor in organizational practice and policy in the era of globalization. In order to overcome culturally shaped blind spots in conducting research in different settings, this volume highlights how the structuring of roles, interests, and power among different organizational elements, such as [...]

Contents
Cross-Cultural Knowledge Management: Definition, Nature, and Significance Professional identities and organisational evolution: paradoxes of new individualism Culture, personality and patterns of behavior in multicultural teams The different aspects and the development of intercultural competence Inter-/cross-cultural issues in international business Global shifts in values and norms National differences in knowledge management Managing cultural diversity Improving cultural fit Reflections on the dynamics of the field and challenges for the future

Fields of interest
Entrepreneurship; Technology Management; Economic Growth; Anthropology

Target groups
Research

Type of publication
Monograph

Designing Public Procurement Policy in Developing Countries
How to Foster Technology Transfer and Industrialization in the Global Economy

This book presents effective strategies for developing countries to leverage their public sector demand for manufactured imports to promote industrialization, trade, and technology transfer. Technology transfer and its absorption is considered one of the most crucial and complicated challenges for developing countries, which are characterized by insufficient infrastructure, low technological intensity of the domestic capital stock, and high levels of manufactured imports. Which strategies and policy tools can governments employ to link demand with technology transfer, thereby enhancing absorption capacity and development in emerging economies? This book is part of a broader project launched by PGlobal Global Advisory and Training Services Ltd., in cooperation with Istanbul Commerce University (İTUCU) and the Scientific and Technological Research Council of Turkey (TÜBİTAK). The contributors to this book are policymakers, academicians, and experts who are working together to identify problems and [...]

Features
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Fields of interest
R & D / Technology Policy; Development Economics; Economic Policy

Target groups
Professional/practitioner

Type of publication
Contributed volume

Usually dispatched within 3 to 5 business days


$119.00
ISBN 978-1-4614-2088-0

2012. XIX, 268 p. 71 illus., 46 in color. Hardcover

$139.00
ISBN 978-1-4614-1441-4
**Excel-Based Business Analysis**

**Forecasting Key Business Trends**

“The trend is your friend” is a practical principle often used by business managers, who seek to forecast future sales, expenditures, and profitability in order to make production and other operational decisions. The problem is how best to identify and discover business trends and utilize trend information for attaining objectives of firms. This book contains an Excel-based solution to this problem, applying principles of the authors’ “profit system model” of the firm that enables forecasts of trends in sales, expenditures, profits and other business variables. The program, called FIRM, which runs on Windows with Microsoft Excel 2010, uses historical time series of total sales, total costs, and total assets of the firm from its financial statements (income statements and balance sheets), estimates relationships among these variables, and then employs the estimated relationships to forecasts trends in these vital business variables. Featuring step-by-step case examples, the goal is to equip business professionals with tools to make more accurate and informed forecasts.

**Financial Performance Measures and Value Creation: the State of the Art**

The choice of financial performance measures is one of the most critical challenges facing organizations. The accounting-based measures of financial performance have been viewed as inadequate, as firms began focusing on shareholder value as the primary long-term objective of the organization. Hence, value-based metrics were devised that explicitly incorporate the cost of capital into performance calculations. Despite the increasing emphasis on these value-based measures, no definitive evidence exists of which metric works better than others, and on the extent to which any of them is superior to traditional accounting measures. In this scenario, the objective of this book is contributing to the ongoing dialogue on the appropriateness of different financial performance measures, by providing a systematic and updated review of the major value-based measures, by highlighting their respective strengths and weaknesses and by comparing the main international empirical evidence on their effectiveness.

**Features**

No text!

**Fields of interest**

Business & Management Science

**Target groups**

Research

**Type of publication**

Brief

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

2012. XV, 44 p. 43 illus., 32 in color. (SpringerBriefs in Business, Vol. 8) Softcover

$49.95

ISBN 978-1-4614-2049-1

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**Financial Performance Measures and Value Creation: the State of the Art**

D. Veranzo, University of Rome III, Rome, Italy

**Greening the Financial Sector**

**How to Mainstream Environmental Finance in Developing Countries**

Environmental finance, particularly energy efficiency and renewable energy (EERE) finance, can and should serve as an interface to other sub-sectors of financial sector promotion such as microfinance, housing finance or agricultural finance. For example, existing clients of financial institutions include small and medium-sized enterprises and households, and these are often suffering from high energy prices or have no access to sustainable energy supply. At the same time, these clients are vulnerable to extreme weather events, and often hit hardest by the impact of climate change. There are many other examples which show that the financial sector has an enormous potential to support “green” investments. In order to tap this potential on a sustainable basis, it is important to have a sound understanding which role financial institutions can and should play. This book provides a blend of well-founded professional and scientific perspectives on the potential of environmental finance in developing and other countries.

**Features**

Given the manifold challenges of financial sectors in developing and transition countries, one might be tempted to believe that embarking on “green” finance is not a priority for financial systems development. However, there are a number of arguments against this view. Environmental finance, particularly energy efficiency and renewable energy (EERE) finance, can and should serve as an interface to other sectors.

**Contents**


**Fields of interest**

Environmental Economics; Finance / Banking; Environmental Economics

**Target groups**

Research

**Type of publication**

Monograph

**Due: January 28, 2012**

2012. XIV, 249 p. Hardcover

$89.95

ISBN 978-3-642-05086-2
Health and Animal Agriculture in Developing Countries

This book provides an overview of the state of animal agriculture and present methodologies and proposals to develop policies that result in sustainable and profitable animal production that will protect human and environmental health, enhance livelihood of smallholders and meet consumer needs. The book combines lessons of the past, factual foundation to understand the present, analytical tools to design and improve policies, case studies that provide both empirical grounding and applications of some of the strategies suggested in this book, and finally, a proposal for the way forward.

Features
This book provides an overview of the state of animal agriculture and present methodologies and proposals to develop policies that result in sustainable and profitable animal production that will protect human and environmental health, enhance livelihood of smallholders and meet consumer needs. The book combines lessons of the past, factual foundation to understand the present, analytical tools to design and [...] Contents

Fields of interest
Agricultural Economics; Development Economics; Environmental Economics; Environmental Management

Target groups
Research

Type of publication
Contributed volume

Usually dispatched within 3 to 5 business days


$139.00

Innovation Systems in Small Catching-Up Economies

New Perspectives on Practice and Policy

In several parts of the world, countries are undergoing economic, social, and political transitions, enhanced and accelerated by the forces of globalization. These transition economies can serve as laboratories for understanding the innovation process. This volume features original theoretical and empirical research. It offers the first comprehensive view of innovation system development in the context of small catching-up economies. Smallness, path dependency, and latecomer status of such economies create some inherent limitations for their innovation systems, but these special characteristics can offer advantages as well. For example, smallness is often related with increased flexibility and shorter reaction times, while latecomers can benefit from earlier experiences of their more advanced neighbors. Path-dependency highlights the fact that the innovation system development processes are considerably influenced by the past experience of a particular country or region. By incorporating these[...]

Features
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Business & Economics (general)

Target groups
Research

Type of publication
Monograph

Usually dispatched within 3 to 5 business days


$139.00
ISBN 978-1-4614-1547-3

Mode 3 Knowledge Production in Quadruple Helix Innovation Systems

21st-Century Democracy, Innovation, and Entrepreneurship for Development

Developed and developing economies alike face increased resource scarcity and competitive rivalry. In this context, science and technology appear as an essential source of competitive and sustainable advantage at national and regional levels. However, the key determinant of their efficacy is the quality and quantity of entrepreneurship-enabled innovation that unlocks and captures the benefits of the science enterprise in the form of private, public or hybrid goods. Linking basic and applied research with the market, via technology transfer and commercialization mechanisms, including government-university-industry partnerships and capital investments, constitutes the essential trigger mechanism and driving force of sustainable competitive advantage and prosperity. In this volume, the authors define the terms and principles of knowledge creation, diffusion, and use, and establish a theoretical framework for their study. In particular, they focus on the “Quadruple Helix” model, through which[...]

Features
None

Fields of interest
Business & Management Science

Target groups
Research

Type of publication
Brief

Usually dispatched within 3 to 5 business days

2012, VI, 63 p. 13 illus. (SpringerBriefs in Business, Tentative volume 7) Softcover

$49.95
National Strategies to Harness Information Technology

Seeking Transformation in Singapore, Finland, the Philippines, and South Africa

The ability to harness Information Communication Technologies (ICTs) is increasingly at the heart of competitiveness and sustainable growth. As countries engage in an increasingly competitive global economy, they are trying to weave ICT into their development strategies, in the same way enterprises have learned to use ICT to transform their business models and strategies. This integration offers a new path to development that is responsive to the challenges of our times. In National Strategies to Harness Information Technology, Nagy Hanna and Peter Knight provide a framework for assessing the opportunities, challenges, and prospects for “e-transformation” and for analyzing the options and innovations adopted to manage the e-transformation process. They ask hard questions: what does it take to harness ICT to transform an economy? Why some countries accelerate their development journey with ICT while others fail? How did successful countries balance the need for strategic leadership with bottom up [...]?

Features
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Fields of interest
Development Economics; Economic Growth; Management of Computing and Information Systems

Target groups
Research

Type of publication
Monograph

Usually dispatched within 3 to 5 business days


$139.00

Quantitative Problem Solving Methods in the Airline Industry

A Modeling Methodology Handbook

This book reviews Operations Research theory, applications and practice in seven major areas of airline planning and operations. In each area, a team of academic and industry experts provides an overview of the business and technical landscape, a view of current best practices, a summary of open research questions and suggestions for relevant future research. There are several common themes in current airline Operations Research efforts. First is a growing focus on the customer in terms of: 1) what they want, 2) what they are willing to pay for services, and 3) how they are impacted by planning, marketing and operational decisions. Second, as algorithms improve and computing power increases, the scope of modeling applications expands, often re-integrating processes that had been broken into smaller parts in order to solve them in the past. Finally, there is a growing awareness of the uncertainty in many airline planning and operational processes and decisions. Airlines now recognize the need [...]?

Fields of interest
Operations Research / Decision Theory; Engineering Economics, Organization, Logistics, Marketing; Industrial Organization; Regional Science; Civil Engineering; Organization / Planning

Target groups
Research

Type of publication
Handbook

Usually dispatched within 3 to 5 business days


$189.00
ISBN 978-1-4614-1607-4

Research in Systems Analysis and Design: Models and Methods

4th SIGSAND/PLAIS EuroSymposium 2011, Gdańsk, Poland, September 29, 2011, Revised Selected Papers

This book constitutes the proceedings of the 4th EuroSymposium on Systems Analysis and Design, SIGSAND/PLAIS 2011, held in Gdańsk, Poland, in September 2011. The objective of this symposium is to promote and develop high-quality research on all issues related to systems analysis and design (SAND). It provides a forum for SAND researchers and practitioners in Europe and beyond to interact, collaborate, and develop their field. The 9 papers were carefully reviewed and selected from 20 submissions. An additional revision took place after the conference to incorporate discussion results from the presentation. The contributions are organized into topical sections on business process modeling, integrated systems development, and software development.

Features
Business Information Systems; Computer Appl. in Administrative Data Processing; Information Systems Applications (incl.Internet); Software Engineering

Due: December 28, 2011

2011, XC, 113 p. 39 illus. (Lecture Notes in Business Information Processing, Vol. 93) Softcover

$72.00
ISBN 978-3-642-25675-2
J. Kandampully, Ohio State University, Columbus, OH, USA (Ed.)

Service Management

The New Paradigm in Retailing

“Great retailers are great at service. No exceptions. This book offers a wealth of insight into delivering excellent retail service.” -- Leonard L. Berry, Distinguished Professor of Marketing, N.B Zale Chair in Retailing and Market Leadership, Mays Business School, Texas A&M University

With a growing understanding of service as a phenomenon and perspective of business and marketing, retailers are increasingly seeing the need to transform from distribution of products to service providers. This book includes considerable insight regarding the importance of the service perspective and how it can be implemented in retailing.” – Christian Grönroos, Professor of Service and Relationship Marketing, CERS Centre for Relationship Marketing and Service Management, Hanken School of Economics, Finland

Consisting of chapters written by leading scholars in service management and retailing from around the world, this comprehensive book offers rich insights for how retailers can excel and achieve sustainable growth.

Features

TK

Fields of interest
Marketing; Management; Business for Professionals; Production / Logistics

Target groups
Research

Type of publication
Monograph

Usually dispatched within 3 to 5 business days

2012. XXXII, 315 p. 33 illus. Hardcover

$139.00

ISBN 978-1-4614-1553-4

S.P. MacGregor, IESE Business School, Barcelona, Spain; T. Carleton, Innovation Leadership Board LLC, Silicon Valley, CA, USA (Eds.)

Sustaining Innovation

Collaboration Models for a Complex World

In many ways, the process of innovation is a constant social dance, where the best dancers thrive by adapting new steps with multiple partners. The systematic and continuous generation of value in any innovation system relies on collaboration between different groups, who must overcome multiple, often competing agendas and needs to work together fruitfully over the long term. Featuring contributions from leading researchers, business leaders, and policymakers representing North America, Europe, India, Africa, and Australasia, this volume investigates different combinations of collaborative arrangements among innovation actors, many of which are changing conventional expectations of institutional relationships. Collectively, the authors demonstrate that no particular combination has emerged as the most dominant, or even resilient, model of innovation. Several authors expand on our understanding of the triple helix model, with both academics and practitioners looking to the quadruple helix.

Features

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Fields of interest
Business & Economics (general); Technology Management; Entrepreneurship

Target groups
Research

Type of publication
Monograph

Usually dispatched within 3 to 5 business days

2012. XXIV, 170 p. 29 illus., 23 in color. (Innovation, Technology, and Knowledge Management) Hardcover

$119.00


Y. Lin, Slippery Rock University, PA, USA; B. Forrest, Carnegie Mellon University, Pittsburgh, PA, USA

Systemic Structure Behind Human Organizations

From Civilizations to Individuals

Systemic Structure behind Human Organizations: From Civilizations to Individuals shows how the systemic yoyo model can be successfully employed to study human organizations at three different levels: civilizations, business enterprises, and individuals. This monograph tackles managerial problems from an holistic perspective such as how a business entity grows and dies and how a CEO can manipulate the choices of long- and short-term projects in order to gain more control over the board of directors. By creating a uniform language and logic of reasoning, the book provides examples and convincing results. Additionally the book shows how the same model, thinking logic, and methodology of the systems research can be equally applied to analyze problems and situations considered in natural sciences, social sciences, and humanity areas. Therefore, it offers knowledge of a brand new tool to attack organizational problems. By concentrating on difficult, unsettled issues in these varying areas, this monograph...

Features

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Contents


Fields of interest
Business & Management Science; Complex Systems; Philosophy of Man

Target groups
Professional/practitioner

Type of publication
Monograph

Usually dispatched within 3 to 5 business days

2012. XVIII, 419 p. 102 illus., 2 in color. (Contemporary Systems Thinking) Hardcover

$189.00

The Causes and Consequences of Income Tax Noncompliance

Taxpayer compliance is a voluntary activity, and the degree to which the tax system works is affected by taxpayers' knowledge that it is their moral and legal responsibility to pay their taxes. Taxpayers also recognize that they face a lottery in which not all taxpayer noncompliance will ever be detected. In the United States most individuals comply with the tax law, yet the tax gap has grown significantly over time for individual taxpayers. The US Internal Revenue Service attempts to ensure that the minority of taxpayers who are noncompliant pay their fair share with a variety of enforcement tools and penalties. The Causes and Consequences of Income Tax Noncompliance provides a comprehensive summary of the empirical evidence concerning taxpayer noncompliance and presents innovative research with new results on the role of IRS audit and enforcement activities on compliance with federal and state income tax collection. Other issues examined include to what degree taxpayers respond to the threat of...[9]

Features
Taxpayer compliance is a voluntary activity, and the degree to which the tax system works is affected by taxpayers' knowledge that it is their moral and legal responsibility to pay their taxes. Taxpayers also recognize that they face a lottery in which not all taxpayer noncompliance will ever be detected. In the United States most individuals comply with the tax law, yet the tax gap has grown significantly[9].

Contents

Fields of interest
Financial Economics; Public Finance & Economics; Econometrics; Accounting / Auditing

Target groups
Research

Type of publication
Monograph

Usually dispatched within 3 to 5 business days

2012, IX, 281 p. 93 illus., 23 in color. Hardcover

$119.00
ISBN 978-1-4419-0906-0

The Ethics of Tax Evasion
Perspectives in Theory and Practice

Why do people evade paying taxes? This is the central question addressed in this volume by Robert McGee and a multidisciplinary group of contributors from around the world. Applying insights from economics, public finance, political science, law, philosophy, theology and sociology, the authors consider the complex motivations for not paying taxes and the conditions under which this behavior might be rationalized. Applying theoretical approaches as well as empirical research, The Ethics of Tax Evasion considers three general arguments for tax evasion: (1) in cases where the government is corrupt or engaged in human rights abuses; (2) where citizens claim inability to pay, unfairness in the tax system, paying for things that do not benefit the taxpayer, excessively high tax rates, or where taxes are used to support an unpopular war; and (3) through philosophical, moral, or religious opposition. The authors further explore these issues by asking whether attitudes toward tax evasion differ by[...]

Features
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Fields of interest
Business Taxation; Public Finance & Economics; Theories of Law, Philosophy of Law, Legal History

Target groups
Research

Type of publication
Monograph

Usually dispatched within 3 to 5 business days

2012. XV, 689 p. 4 illus. Hardcover

$279.00
ISBN 978-1-4614-1286-1

Trade in Ideas
Performance and Behavioral Properties of Markets in Patents

The economic system is generally understood to operate on the premise of exchange. The most important factor in economic development has always been technology, as a way to expand a limited resource base. Such increase in technology and knowledge is generally accepted by economists, but the mechanisms of exchange through which this happens are much less studied. Generally, a static analysis of product exchange, incorporating new technology, has been undertaken. This book explores the transition of trade in ideas from an exchange largely within firms and nations to an exchange between firms and nations. This process has been going on since the beginning of the patent system, where importing (trading) technology was made policy in 1474, more than 500 years ago. However, during the past 25-30 years, a growth in exchange of technology between specialized firms, cooperating based on patent licensing, has been phenomenal, with annual licensing transactions exceeding a trillion dollars, not counting value[...]

Features
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Fields of interest
Technology Management; Economic Theory; R & D / Technology Policy

Target groups
Research

Type of publication
Monograph

Usually dispatched within 3 to 5 business days


$119.00

2012. XV, 689 p. 4 illus. Hardcover

$279.00
ISBN 978-1-4614-1286-1
Virtualization of Universities

Digital Media and the Organization of Higher Education Institutions

The purpose of this volume is to shape conceptual tools to understand the impact of new information and communication technologies (ICTs) on the organization of universities. Traditional research-based universities, the most typical representatives of the higher education system, find themselves challenged by the speed and the wide range of technical innovations, but also by a vast array of implicit assumptions and explicit promises associated with the distribution of digital media. The author observes that as universities increasingly use digital media (computers and the Internet) to accomplish their tasks, a transformation takes place in an evolutionary rather than in a revolutionary way. Using the University of Klagenfurt as an in-depth case study, he explores such dynamic issues as how digital media affect the practice of research, the preservation and dissemination of knowledge (for example, through publishing and archiving), and delivery of education at universities. More broadly, he considers implicit assumptions and explicit promises associated with the distribution of digital media.

Features

The purpose of this volume is to shape conceptual tools to understand the impact of new information and communication technologies (ICTs) on the organization of universities. Traditional research-based universities, the most typical representatives of the higher education system, find themselves challenged by the speed and the wide range of technical innovations, but also by a vast array of implicit assumptions and explicit promises associated with the distribution of digital media.

Fields of interest

Media Management; Technology Management; Higher Education

Target groups

Professional/practitioner

Type of publication

Monograph

Usually dispatched within 3 to 5 business days

2012. XIV, 183 p. 15 illus. (Innovation, Technology, and Knowledge Management, 0) Hardcover

$139.00
ISBN 978-1-4614-2064-4

Equity in Discourse for Mathematics Education

Theories, Practices, and Policies

This book explores the connection between the ways people speak in mathematics classrooms and their opportunities to learn mathematics. The words spoken, heard, written and read in mathematics classrooms shape students‘ sense of what mathematics is and of what people can do with mathematics. The authors employ multiple perspectives to consider the means for transformative action with respect to increasing opportunities for traditionally marginalized students to form mathematical identities that resonate with their cultural, social, linguistic, and political beings.

Features

Discourse practices warrant the attention of mathematics educators because discourse is the primary medium of education. Evidence about one’s hopes or expectations can be found in discourse practice whether the goal is performance in mathematical procedures, creativity in problem solving, or a classroom environment that uses the diversity of voices as a resource. Language, through implicit and explicit action, is important to conceptualization and equity.

Contents


Fields of interest

Mathematics Education; Educational Policy and Politics; Sociology of Education

Target groups

Research

Type of publication

Contributed volume

Usually dispatched within 3 to 5 business days


$139.00
ISBN 978-94-007-2812-7

Education

M. Grey, University of Georgia, Athens, GA, USA; S.A. Jones, Georgia Southern University, Statesboro, GA, USA; R.M. Branch, University of Georgia, Athens, GA, USA (Eds.)

Educational Media and Technology Yearbook

Volume 36, 2011

The Educational Media and Technology Yearbook is dedicated to theoretical, empirical and practical approaches to educational media development. All chapters are invited and selected based on a variety of strategies to determine current trends and issues in the field. The 2011 edition will highlight innovative Trends and Issues in Learning Design and Technology, Trends and Issues in Information and Library Science, and features a sections that list and describe Media Related Organizations and Associations in North America, departments in the allied fields, and a listing of journals in the field. The Educational Media and Technology Yearbook, a scholarly resource for a highly specialized professional community, is an official publication of the AECT and has been published annually for 35 years.

Features

As digital devices play a more critical role in daily life than ever, more opportunities arise for innovative learning technologies—a trend on full display in the Educational Media and Technology Yearbook for 2011. This latest edition notes the relationship between the ubiquity of digital devices and cost-effectiveness in a chapter exploring the lasting value of net-based.

Fields of interest

Educational Technology; Learning and Instruction; Library Science

Target groups

Research

Type of publication

Yearbook

Usually dispatched within 3 to 5 business days


$139.00
**Higher Education in Portugal 1974-2009**

A comprehensive, wide ranging and detailed account of the unfolding of higher education and higher education policy in Portugal from 1974 to 2009 by leading policy-makers and scholars, with the explicit purpose of showing how different disciplinary canons and perspectives contribute to the study of higher education and higher education policy including Law and Science Policy perspectives. Whilst focusing on one referential system, this book deals with current policy issues emerging in the wake of the post Bologna period. It also examines their long term historical origins in addition to the measures taken to address them. The substantive chapters are preceded by a detailed Introductory overview that places the issues treated in this volume in a solidly European perspective and sets out explicitly the differences in the dominant political, cultural and social values that set Portuguese as other Continental European systems of higher education apart from their Anglo Saxon counterparts.

**Features**

A comprehensive, wide ranging and detailed account of the unfolding of higher education and higher education policy in Portugal from 1974 to 2009 by leading policy-makers and scholars, with the explicit purpose of showing how different disciplinary canons and perspectives contribute to the study of higher education and higher education policy including Law and Science Policy perspectives. Whilst focusing on [...]
### Engineering

**D. Zheng, Shenzhen University, (P.R. China) (Ed.)**

#### Advances in Electrical Engineering and Electronic Machines

With success of ICEEE 2010 in Wuhan, China, and December 4 to 5, 2010, the second International Conference of Electrical and Electronics Engineering (ICEEE 2011) will be held in Macau, China, and December 1 to 2, 2011. ICEEE is an annual conference to call together researchers, engineers, academicians as well as industrial professionals from all over the world to present their research results and development activities in Electrical and Electronics Engineering along with Computer Science and Technology, Communication Technology, Artificial Intelligence, Information Technology, etc. This year ICEEE is sponsored by International Industrial Electronics Center, Hong Kong. And based on the deserved reputation, more than 750 papers have been submitted to ICEEE 2011, from which about 98 high quality original papers have been selected for the conference presentation and inclusion in the “Electrical and Electronics Engineering” book based on the referees’ comments from peer-reviewed. We expect that the...[...]

#### Contents

- [SQAR: An Annotation-Based Study Process to Enhance the Learner’s Personal Learning](#).
- Integrating Digital Games into School Curriculum: A Field Experiment in Math Education.
- The Need of Full-Featured Web-Based Formative Assessment In a Medical PBL-Curriculum.
- Students’, Lecturers’ and Theory’s View.
- Stringprinter: First Steps Toward Child-Friendly Fabrication Devices.
- Beyond Playing with Lego Bricks: Modeling Interaction between Behavioral Artifacts.
- Collaborative Language Learning as a Device Independent Application.
- Epistemological Beliefs and Ill-Defined...[...]

**Fields of interest**

- Educational Technology
- Cognitive Psychology
- Educational Psychology

**Target groups**

- Research

**Type of publication**

- Monograph

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

2012. XXVI, 325 p. 74 illus. Hardcover

$169.00

ISBN 978-1-4614-1538-1

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### Advances in Multimedia, Software Engineering and Computing Vol.1

**D. Jin, Wuhan University, China; S. Lin, IEST Association, Wuhan, China (Eds.)**

#### Proceedings of the 2011 MSEC International Conference on Multimedia, Software Engineering and Computing, November 26-27, Wuhan, China

MSEC2011 is an integrated conference concentrating its focus upon Multimedia, Software Engineering, Computing and Education. In the proceedings, you can learn much more knowledge about Multimedia, Software Engineering, Computing and Education of researchers all around the world. The main role of the proceeding is to be used as an exchange pillar for researchers who are working in the mentioned field. In order to meet high standard of Springer, AISc series, the organization committee has made their efforts to do the following things: Firstly, poor quality paper has been refused after reviewing round by anonymous referee experts. Secondly, periodically review meetings have been held around the reviewers about five times for exchanging reviewing suggestions. Finally, the conference organization had several preliminary sessions before the conference. Through efforts of different people and departments, the conference will be successful and fruitful.

#### Features

- MSEC2011 is an integrated conference concentrating its focus upon Multimedia, Software Engineering, Computing and Education.

**Contents**

- From the content: Model retrieval based on three-view. A Bayesian Network Approach to the Relevance Feedback of Personalized Image Semantic Model.
- Extraction and Recognition of Bridges over Water in High Resolution SAR Image.
- Unsupervised SAR Imagery Segmentation based on SDVD.
- An Approach of Building Areas Segmentation of SAR Images Based on the Level Set Method.
- SAR Image Classification in Urban Areas using Unit-linking Pulse Coupled Neural Network: The Research of Intrusion Detection...[...]

**Fields of interest**

- Computational Intelligence
- Multimedia Information Systems
- Software Engineering / Programming and Operating Systems

**Target groups**

- Research

**Type of publication**

- Proceedings

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


$399.00

ISBN 978-3-642-25988-3
Advances in Multimedia, Software Engineering and Computing Vol.2

Proceedings of the 2011 MSEC International Conference on Multimedia, Software Engineering, November 26-27, Wuhan, China

MSEC2011 is an integrated conference concentrating its focus upon Multimedia, Software Engineering, Computing and Education. In the proceeding, you can learn much more knowledge about Multimedia, Software Engineering, Computing and Education of researchers all around the world. The main role of the proceeding is to be used as an exchange pillar for researchers who are working in the mentioned field. In order to meet high standard of Springer, AISC series the organization committee has made their efforts to do the following things. Firstly, poor quality paper has been refused after reviewing course by anonymous referee experts. Secondly, periodically review meetings have been held around the reviewers about five times for exchanging reviewing suggestions. Finally, the conference organization had several preliminary sessions before the conference. Through efforts of different people and departments, the conference will be successful and fruitful.

Features
MSEC2011 is an integrated conference concentrating its focus upon Multimedia, Software Engineering, Computing and Education. In the proceeding, you can learn much more knowledge about Multimedia, Software Engineering, Computing and Education of researchers all around the world. The main role of the proceeding is to be used as an exchange pillar for researchers who are working in the mentioned field. In [...] Contents

Fields of interest
Computational Intelligence; Multimedia Information Systems; Software Engineering / Programming and Operating Systems

Target groups
Research

Type of publication
Proceedings

Usually dispatched within 3 to 5 business days

2012. XX, 708 p. 244 illus. (Advances in Intelligent and Soft Computing, Vol. 129) Softcover

$399.00
ISBN 978-3-642-25985-2

Background Calibration of Time-Interleaved Data Converters

This book describes techniques for time-interleaving a number of analog-to-digital data converters to achieve demanding bandwidth requirements. Readers will benefit from the presentation of a low-power solution that can be used in actual products, while alleviating the time-varying signal artifacts that typically arise when implementing such a system architecture.

Features
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Introduction.- Time-Interleaved ADCs.- Mitigation of Timing Skew.- Architecture Optimization.- Circuit Design.- Measurement Results.- Conclusion.

Fields of interest
Circuits and Systems; Electronics and Microelectronics, Instrumentation; Signal, Image and Speech Processing

Target groups
Research

Type of publication
Monograph

Usually dispatched within 3 to 5 business days

2012. XX, 123 p. 73 illus. (Analog Circuits and Signal Processing) Hardcover

$129.00
ISBN 978-1-4614-1510-7

Biomimetics in Materials Science

Self-Healing, Self-Lubricating, and Self-Cleaning Materials

Biomimetics in Materials Science provides a comprehensive theoretical and practical review of biomimetic materials with self-healing, self-lubricating and self-cleaning properties. These three topics are closely related and constitute rapidly developing areas of study. The field of self-healing materials requires a new conceptual understanding of this biomimetic technology, which is in contrast to traditional engineering processes such as wear and fatigue. Biomimetics in Materials Science is the first monograph to be devoted to these materials. A new theoretical framework for these processes is presented based on the concept of multi-scale structure of entropy and non-equilibrium thermodynamics, together with a detailed review of the available technology. The latter includes experimental, modeling, and simulation results obtained on self-healing/lubricating/cleaning materials since their emergence in the past decade.

Features
Biomimetics in Materials Science provides a comprehensive theoretical and practical review of biomimetic materials with self-healing, self-lubricating and self-cleaning properties. These three topics are closely related and constitute rapidly developing areas of study. The field of self-healing materials requires a new conceptual understanding of this biomimetic technology, which is in [...] Contents
Continuum Mechanics and Mechanics of Materials; Polymer Sciences; Tribology, Corrosion and Coatings; Ceramics, Glass, Composites, Natural Materials; Metallic Materials

Target groups
Research

Type of publication
Monograph

Usually dispatched within 3 to 5 business days


$169.00
ISBN 978-1-4614-0925-0
Cell and Tissue Engineering

“Cell and Tissue Engineering” introduces the principles and new approaches in cell and tissue engineering. It includes both the fundamentals and the current trends in cell and tissue engineering, in a way useful both to a novice and an expert in the field. The book is composed of 13 chapters all of which are written by the leading experts. It is organized to gradually assemble an insight in cell and tissue function starting form a molecular nano-level, extending to a cellular micro-level and finishing at the tissue macro-level. In specific, biological, physiological, biophysical, biochemical, medical, and engineering aspects are covered from the standpoint of the development of functional substitutes of biological tissues for potential clinical use. Topics in the area of cell engineering include cell membrane biophysics, structure and function of the cytoskeleton, cell-extracellular matrix interactions, and mechanotransduction. In the area of tissue engineering the focus is on the vitro[...]

Features

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Computer, Informatics, Cybernetics and Applications

Proceedings of the CICA 2011

The Conference on Computer, Informatics, Cybernetics and Applications 2011 aims to facilitate an exchange of information on best practices for the latest research advances in the area of computer, informatics, cybernetics and applications, which mainly includes computer science and engineering, informatics, cybernetics, control systems, communication and network systems, technologies and applications, others and emerging new topics.

Features
Computer Informatics Cybernetics and Applications offers 91 papers chosen for publication from among 184 papers accepted for presentation to the International Conference on Computer, Informatics, Cybernetics and Applications 2011 (CICA 2011), held in Hangzhou, China, September 13-16, 2011. The CICA 2011 conference provided a forum for engineers and scientists in academia, industry, and government to [...]
Cross-Word Modeling for Arabic Speech Recognition

Cross-Word Modeling for Arabic Speech Recognition utilizes phonological rules in order to model the cross-word problem, a merging of adjacent words in speech caused by continuous speech, to enhance the performance of continuous speech recognition systems. The author aims to provide an understanding of the cross-word problem and how it can be avoided, specifically focusing on Arabic phonology using an HHM-based classifier.

Features
N/A

Contents

Fields of interest
Signal, Image and Speech Processing; Language Translation and Linguistics; Computational Linguistics; Communications Engineering, Networks; User Interfaces and Human Computer Interaction; Arabic

Target groups
Research

Type of publication
Brief

Usually dispatched within 3 to 5 business days

2012, X, 74 p. 40 illus., 1 in color. (SpringerBriefs in Speech Technology) Hardcover

$49.95
ISBN 978-1-4614-1212-0

Deep Space Propulsion

A Roadmap to Interstellar Flight

The technology of the next few decades could possibly allow us to explore with robotic probes the closest stars outside our Solar System, and maybe even observe some of the recently discovered planets circling these stars. This book looks at the reasons for exploring our stellar neighbors and at the technologies we are developing to build space probes that can traverse the enormous distances between the stars. In order to reach the nearest stars, we must first develop a propulsion technology that would take our robotic probes there in a reasonable time. Such propulsion technology has radically different requirements from conventional chemical rockets, because of the enormous distances that must be crossed. Surprisingly, many propulsion schemes for interstellar travel have been suggested and await only practical engineering solutions and the political will to make them a reality. This is a result of the tremendous advances in astrophysics that have been made in recent decades and the perseverance and[...]

Features
As humans take their first tentative steps off our home planet, and debate the costs/benefits of sending people back to the Moon and perhaps on to Mars, we must also start to make plans for the day when we will venture forth as pioneers farther out into the Solar System and beyond - perhaps far, far beyond - to explore and settle new worlds around other stars. It is vital that we develop the deep space[...]

Contents

Fields of interest
Aerospace Technology and Aeronautics; 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. XXI, 367 p. 73 illus., 22 in color. Softcover

$179.00
ISBN 978-1-4419-9606-0

Digital Signal Processing for In-Vehicle Systems and Safety

Compiled from papers of the 4th Biennial Workshop on DSP (Digital Signal Processing) for In-Vehicle Systems and Safety this edited collection features world-class experts from diverse fields focusing on integrating smart in-vehicle systems with human factors to enhance safety in automobiles. Digital Signal Processing for In-Vehicle Systems and Safety presents new approaches on how to reduce driver inattention and prevent road accidents. The material addresses DSP technologies in adaptive automobiles, in-vehicle dialogue systems, human machine interfaces, video and audio processing, and in-vehicle speech systems. The volume also features recent advances in Smart-Car technology, coverage of autonomous vehicles that drive themselves, and information on multi-sensor fusion for driver ID and robust driver monitoring. Digital Signal Processing for In-Vehicle Systems and Safety is useful for engineering researchers, students, automotive manufacturers, government foundations and engineers working in the[...]

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Contents

Fields of interest
Signal, Image and Speech Processing; Automotive Engineering; Control

Target groups
Research

Type of publication
Contributed volume

Usually dispatched within 3 to 5 business days

2012. XXI, 325 p. 166 illus. Hardcover

$179.00
ISBN 978-1-4419-9606-0
Elasticity and Plasticity of Large Deformations

An Introduction

Nonlinear Continuum Mechanics is a rapidly growing field of research. Since the last edition of this book, many important results in this field have been published. This new edition refers to the most important results. The part on hyperelastic models and anisotropic yield criteria has been enlarged and an outlook on Material Plasticity has been added.

Features

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Contents


Fields of interest

Continuum Mechanics and Mechanics of Materials; Characterization and Evaluation of Materials

Target groups

Graduate

Type of publication

Graduate/advanced undergraduate textbook

Elastoenergiesysteme

Erzeugung, Transport, Übertragung und Verteilung elektrischer Energie


Features


Contents


Fields of interest

Energy Technology; Power Electronics, Electrical Machines and Networks; Energy (general)

Target groups

Professional/practitioner

Type of publication

Professional book

Published: January 28, 2012

Fading and Shadowing in Wireless Systems

The study of signal transmission and distortion in signal characteristics as the signal propagates through wireless channels is of great significance. The book presents a comprehensive view of channel degradation arising from fading and shadowing. Various statistical models including simple, hybrid, compound, complex and cascaded models are presented with detailed derivations along with measures to quantify the deterioration such as the amount of fading, error rates and outage probabilities. The models range from the Rayleigh and Ricean to the Nakagami and alpha-mu and similar ones. This is followed by the analysis of mitigation of fading and shadowing through diversity (simple, hybrid, macro- and micro-level) and combining algorithms. The density and distribution functions, error rates and outages are derived and results analyzed to quantify the improvements. The effects of co-channel interference before and after the implementation of diversity are also analyzed.

Features

In recent decades, growth in the field of wireless communications has led to an exponential rise in the number of journals catering to the research community. Still unmet, however, is the need to fully and comprehensively understand the effects of channel degradation, the reasons for these fluctuations and the statistical fluctuations in the channel. These fluctuations mainly manifest as variations in signal power observed in the propagation channel. The book presents a comprehensive view of channel degradation arising from fading and shadowing. Various statistical models including simple, hybrid, compound, complex and cascaded models are presented with detailed derivations along with measures to quantify the deterioration such as the amount of fading, error rates and outage probabilities. The models range from the Rayleigh and Ricean to the Nakagami and alpha-mu and similar ones. This is followed by the analysis of mitigation of fading and shadowing through diversity (simple, hybrid, macro- and micro-level) and combining algorithms. The density and distribution functions, error rates and outages are derived and results analyzed to quantify the improvements. The effects of co-channel interference before and after the implementation of diversity are also analyzed.

Contents


Fields of interest

Communications Engineering, Networks; Coding and Information Theory; Information and Communication, Circuits

Target groups

Research

Type of publication

Monograph

Published: January 28, 2012

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Contents


Fields of interest

Communications Engineering, Networks; Coding and Information Theory; Information and Communication, Circuits

Target groups

Research

Type of publication

Monograph

Published: January 28, 2012
Feedback Control of MEMS to Atoms

Control from MEMS to Atoms illustrates the use of control and control systems as an essential part of functioning integrated systems. The book is organized according to the dimensional scale of the problem, starting with micro-scale systems and ending with atomic-scale systems. Similar to macro-scale machines and processes, control systems can play a major role in improving the performance of micro- and nano-scale systems and in enabling new capabilities that would otherwise not be possible. However, the majority of problems at these scales present many new challenges that go beyond the current state-of-the-art in control engineering. This is a result of the multidisciplinary nature of micro/nanotechnology, which requires the merging of control engineering with physics, biology and chemistry.

Features
Feedback Control of MEMS to Atoms illustrates the use of control and control systems as an essential part of functioning integrated miniaturized systems. The book is organized according to the dimensional scale of the problem, starting with microscale systems and ending with atomic-scale systems. Similar to macroscale machines and processes, control systems can play a major role in improving the [...] 

Contents

Fields of interest
Control, Robotics, Mechatronics, Electronics and Microelectronics, Instrumentation, Vibration, Dynamical Systems, Control, Nanotechnology

Target groups
Research

Type of publication
Contributed volume

Usually dispatched within 3 to 5 business days

Y. Wang, Shanghai Jiao Tong University, Shanghai, China; T. Li, Southwest Jiaotong University, Chengdu, China (Eds.)

Foundations of Intelligent Systems
Proceedings of the Sixth International Conference on Intelligent Systems and Knowledge Engineering, Shanghai, China, Dec 2011 (ISEK 2011)

Proceedings of the Sixth International Conference on Intelligent System and Knowledge Engineering presents selected papers from the conference ISEK 2011, held December 15-17 in Shanghai, China. This proceedings doesn't only examine original research and approaches in the broad areas of intelligent systems and knowledge engineering, but also present new methodologies and practices in intelligent computing paradigms. The book introduces the current scientific and technical advances in the fields of artificial intelligence, machine learning, pattern recognition, data mining, information retrieval, knowledge-based systems, knowledge representation and reasoning, multi-agent systems, natural-language processing, etc. Furthermore, new computing methodologies are presented, including cloud computing, service computing and pervasive computing with traditional intelligent methods. The proceedings will be beneficial for both researchers and practitioners who want to utilize intelligent methods in their[...]

Features
Proceedings of The Sixth International Conference on Intelligent System and Knowledge Engineering presents selected papers from the conference ISEK 2011, held December 15-17 in Shanghai, China. This proceedings doesn't only examine original research and approaches in the broad areas of intelligent systems and knowledge engineering, but also present new methodologies and practices in intelligent computing [...] 

Contents
Artificial Intelligence. - Pattern Recognition, Image and Video Processing. - Cognitive Science and Brain-Computer Interface.

Fields of interest
Computational Intelligence; Data Mining and Knowledge Discovery; Artificial Intelligence (incl. Robotics); Signal, Image and Speech Processing; Information Systems Applications (incl.Internet); Information Storage and Retrieval

Target groups
Research

Type of publication
Proceedings

Usually dispatched within 3 to 5 business days


$399.00
ISBN 978-3-642-25663-9

Fundamentals of Speaker Recognition

An emerging technology, Speaker Recognition is becoming well-known for providing voice authentication over the telephone for helpdesks, call centres and other enterprise businesses for business process automation. "Fundamentals of Speaker Recognition" introduces Speaker Identification, Speaker Verification, Speaker (Audio Event) Classification, Speaker Detection, Speaker Tracking and more. The technical problems are rigorously defined, and a complete picture is made of the relevance of the discussed algorithms and their usage in building a comprehensive Speaker Recognition System. Designed as a textbook with examples and exercises at the end of each chapter, "Fundamentals of Speaker Recognition" is suitable for advanced-level students in computer science and engineering, concentrating on biometrics, speech recognition, pattern recognition, signal processing and, specifically, speaker recognition. It is also a valuable reference for developers of commercial technology and for speech scientists.[...]

Features
An emerging technology, Speaker Recognition is becoming well-known for providing voice authentication over the telephone for helpdesks, call centres and other enterprise businesses for business process automation. "Fundamentals of Speaker Recognition" introduces Speaker Identification, Speaker Verification, Speaker (Audio Event) Classification, Speaker Detection, Speaker Tracking and more. The [...] 

Contents

Fields of interest
Signal, Image and Speech Processing; Biometrics; Pattern Recognition; Security Science and Technology; Coding and Information Theory; Acoustics

Target groups
Professional/practitioner

Type of publication
Graduate/advanced undergraduate textbook

Usually dispatched within 3 to 5 business days

2011. LXXI, 942 p. 177 illus. Hardcover

$119.00
**Handbook of Visual Display Technology**

The Handbook of Visual Display Technology is a unique work offering a comprehensive description of the science, technology, economic and human interface factors associated with the displays industry. An invaluable compilation of information, the Handbook will serve as a single reference source with expert contributions from over 150 international display professionals and academic researchers. All classes of display device are covered including LCDs, reflective displays, flexible solutions and emissive devices such as OLEDs and plasma displays, with discussion of established principles, emergent technologies, and particular areas of application. The wide-ranging content also encompasses the fundamental science of light and vision, image manipulation, core materials and processing techniques, display driving and metrology.

**Features**

The Handbook of Visual Display Technology is a unique work offering a comprehensive description of the science, technology, economic and human interface factors associated with the displays industry. An invaluable compilation of information, the Handbook will serve as a single reference source with expert contributions from over 150 international display professionals and academic researchers. All classes [...]
Informatics in Control, Automation and Robotics

Volume 2

Session 2 includes 110 papers selected from 2011 3rd International Asia Conference on Informatics in Control, Automation and Robotics (CAR 2011), held on December 24-25, 2011, Shenzhen, China. As we all know, the ever growing technology in robotics and automation will help build a better human society. This session will provide a unique opportunity for the academic and industrial communities to address new challenges, share solutions, and discuss research directions for the future. Robotics research emphasizes intelligence and adaptability to cope with unstructured environments. Automation research emphasizes efficiency, productivity, quality, and reliability, focusing on systems that operate autonomously. The main focus of this session is on the autonomous acquisition of semantic information in intelligent robots and systems, as well as the use of semantic knowledge to guide further acquisition of information.

Features
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Contents

Fields of interest
Robotics and Automation; Control; Electrical Engineering; Simulation and Modeling; Signal, Image and Speech Processing

Target groups
Research

Type of publication
Proceedings

Usually dispatched within 3 to 5 business days

December 13, 2011

$279.00
ISBN 978-3-642-25991-3
Integrative Production Technology for High-Wage Countries

Industrial production in high-wage countries like Germany is still at risk. Yet, there are many counter-examples in which producing companies dominate their competitors by not only compensating for their specific disadvantages in terms of factor costs (e.g. wages, energy, duties and taxes) but rather by minimising waste using synchronising integrativity as well as by obtaining superior adaptivity on alternating conditions. In order to respond to the issue of economic sustainability of industrial production in high-wage countries, the leading production engineering and material research scientists of RWTH Aachen University together with renowned companies have established the Cluster of Excellence “Integrative Production Technology for High-Wage Countries”. This compendium comprises the cluster’s scientific results as well as a selection of business and technology cases, in which these results have been successfully implemented into industrial practice in close cooperation with more than 30 companies...

Features
Industrial production in high-wage countries like Germany is still at risk. Yet, there are many counter-examples in which producing companies dominate their competitors by not only compensating for their specific disadvantages in terms of factor costs (e.g. wages, energy, duties and taxes) but rather by minimising waste using synchronising integrativity as well as by obtaining superior adaptivity on [...]

Contents
Introduction. - Integrative Production Technology for High-Wage Countries. - Individualised production. - Virtual production systems. - Hybrid production systems. - Self-optimising production systems. - Integrative Business- and Technology Cases. - Subject index.

Fields of interest
Industrial and Production Engineering; Production / Logistics; Sustainable Development

Target groups
Professional/practitioner

Type of publication
Monograph

Due: February 28, 2012

2012. XXV, 1096 p. 723 illus. Hardcover

$559.00
ISBN 978-1-4614-1405-6

Introduction to Network Simulator NS2

Introduction to Network Simulator NS2 is a primer providing materials for NS2 beginners, whether students, professors, or researchers for understanding the architecture of Network Simulator 2 (NS2) and for incorporating simulation modules into NS2. The authors discuss the simulation architecture and the key components of NS2 including simulation-related objects, network objects, packet-related objects, and helper objects. The NS2 modules included within are nodes, links, SimpleLink objects, packets, agents, and applications. Further, the book covers three helper modules: timers, random number generators, and error models. Also included are chapters on summary of debugging, variable and packet tracing, result compilation, and examples for extending NS2. Two appendices provide the details of scripting language Tcl, Oci2, and AWK, as well object oriented programming used extensively in NS2.

Features
Spurred by a dearth of information on NS2 during their graduate studies, the authors have written this primer on the open-source simulation software to help subsequent generations of students grapple with the program and its uses. NS2, an event-driven simulation program designed specifically for researching computer networks, was conceived in 1989 and has been enhanced ever since. It now includes modules [...]

Contents

Fields of interest
Computing Engineering, Networks, Control, Robotics, Mechatronics, Information Systems and Communication Service

Target groups
Professional/practitioner

Type of publication
Monograph

Usually dispatched within 3 to 5 business days

2012. XXIV, 512 p. 87 illus. Hardcover

$139.00
ISBN 978-1-4614-1405-6

Knowledge Engineering and Management

Proceedings of the Sixth International Conference on Intelligent Systems and Knowledge Engineering, Shanghai, China, Dec 2011 (ISKE 2011)

Proceedings of the Sixth International Conference on Intelligent System and Knowledge Engineering presents selected papers from the conference ISKE 2011, held December 15-17 in Shanghai, China. This proceedings doesn’t only examine original research and approaches in the broad areas of intelligent systems and knowledge engineering, but also present new methodologies and practices in intelligent computing paradigms. The book introduces the current scientific and technical advances in the fields of artificial intelligence, machine learning, pattern recognition, data mining, information retrieval, knowledge-based systems, knowledge representation and reasoning, multi-agent systems, natural-language processing, etc. Furthermore, new computing methodologies are presented, including cloud computing, service computing and pervasive computing with traditional intelligent methods. The proceedings will be beneficial for both researchers and practitioners who want to utilize intelligent methods in their[...]

Features
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Contents
Optimization and Biological Inspired Computation. - Distributed and Parallel Intelligence. - Robotics. - Knowledge Engineering and Management. - Data Mining, Natural Language Processing and Information Retrieval. - Data Simulation and Information Integration. - Formal Engineering & Reliability.

Fields of interest
Computational Intelligence; Data Mining and Knowledge Discovery; Artificial Intelligence (incl. Robotics); Signal, Image and Speech Processing; Information Systems Applications (incl. Internet); Information Storage and Retrieval

Target groups
Research

Type of publication
Proceedings

Usually dispatched within 3 to 5 business days


$349.00
ISBN 978-3-642-25660-8
Mechanical Behaviour of Soils Under Environmentally-Induced Cyclic Loads

The book gives a comprehensive description of the mechanical response of soils (granular and cohesive materials) under cyclic loading. It provides the geotechnical engineer with the theoretical and analytical tools necessary for the evaluation of settlements developing with time under cyclic, environmentally induced loads (such as wave motion, wind actions, water table level variation) and their consequences for the serviceability and durability of structures such as the shallow or deep foundations used in offshore engineering, caisson breakwaters, ballast and airport pavements and also for interpreting monitoring data, obtained from both natural and artificial slopes and earth embankments, for the purposes of risk assessment and mitigation.

Contents

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

Target groups
Research

Type of publication
Monograph

Due: December 29, 2011

2012, X, 574 p. 437 illus. (CISM International Centre for Mechanical Sciences, Vol. 534) Hardcover

$249.00
ISBN 978-3-7091-1067-6

Metal-Dielectric Interfaces in Gigascale Electronics

Thermal and Electrical Stability

Metal-dielectric interfaces are ubiquitous in modern electronics. As advanced gigascale electronic devices continue to shrink, the stability of these interfaces is becoming an increasingly important issue that has a profound impact on the operational reliability of these devices. In this book, the authors present the basic science underlying the thermal and electrical stability of metal-dielectric interfaces and its relationship to the operation of advanced interconnect systems in gigascale electronics. Interface phenomena, including chemical reactions between metals and dielectrics, metallic-atom diffusion, and ion drift, are discussed based on fundamental physical and chemical principles. Schematic diagrams are provided throughout the book to illustrate interface phenomena and the principles that govern them. Metal-Dielectric Interfaces in Gigascale Electronics provides a unifying approach to the diverse and sometimes contradictory test results that are reported in the literature on[...]

Features
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Contents

Fields of interest
Electronics and Microelectronics, Instrumentation; Optical and Electrical Materials; Surface and Interface Science, Thin Films; Nanotechnology and Microengineering; Electrochemistry; Engineering Thermodynamics, Heat and Mass Transfer

Target groups
Research

Type of publication
Monograph

Usually dispatched within 3 to 5 business days

2012, XI, 149 p. 120 illus., 48 in color. (Springer Series in Materials Science, Vol. 157) Hardcover

$129.00

Modeling, Control and Coordination of Helicopter Systems

Modeling, Control and Coordination of Helicopter Systems provides a comprehensive treatment of helicopter systems, ranging from related nonlinear flight dynamic modeling and stability analysis to advanced control design for single helicopter systems, and also covers issues related to the coordination and formation control of multiple helicopter systems to achieve high performance tasks. Ensuring stability in helicopter flight is a challenging problem for nonlinear control design and development. This book is a valuable reference on modeling, control and coordination of helicopter systems, providing readers with practical solutions for the problems that still plague helicopter system design and implementation. Readers will gain a complete picture of helicopters at the systems level, as well as a better understanding of the technical intricacies involved.

Features
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Contents
Introduction.- Building a Nonlinear Rotary-wing Aircraft Model. - Stability Analysis for Rotary-wing Aircraft.- Altitude Control of Helicopters With Unknown Dynamics.- Attitude and Tare Control of Helicopters With Uncertain Dynamics.- Attitude Control of Uncertain Helicopters with Actuator Dynamics.- Kinematic Formation Control Using Q-Structures.- Dynamic Altitude Synchronization Using Graph Theory.

Fields of interest
Aerospace Technology and Astronautics; Vibration, Dynamical Systems, Control; Machinery and Machine Elements; Control

Target groups
Research

Type of publication
Monograph

Usually dispatched within 3 to 5 business days

2012, XV, 229 p. 71 illus. Hardcover

$129.00
ISBN 978-1-4614-1562-6
Molecular Modeling and Multiscale Issues for Electronic Material Applications

Molecular Modeling and Multiscale Issues for Electronic Material Applications provides a snapshot on the progression of molecular modeling in the electronics industry and how molecular modeling is currently being used to understand material performance to solve relevant issues in this field. This book is intended to introduce the reader to the evolving role of molecular modeling, especially seen through the eyes of the IEEE community involved in material modeling for electronic applications. Part I presents the role that quantum mechanics can play in performance prediction, such as properties dependent upon electronic structure, but also shows how much modeling may be used in performance diagnostics, especially when chemistry is part of the performance issue. Part II gives examples of large-scale atomistic methods in material failure and shows several examples of transitioning between grain boundary simulations (on the atomistic level) and large-scale models including an example of…

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Contents
Part I Quantum Mechanics and Molecular Methods: Uses for Property Understanding.- Atomistic Simulations of Microelectronic Materials: Prediction of Mechanical, Thermal and Electrical Properties.- Using Molecular Modeling Trending to Understand Dielectric Susceptibility.- Understanding Cleaner Efficiency for B&RC (“Bottom Anti-Reflective Coating”) After Plasma Etch in Diced Damascene Structures Through the Practical Use of Molecular Modeling Trends.- Part II Large scale atomistic methods and scaling methods to understand mechanical failure in metals.- Roles of grain boundaries in the…

Fields of interest
Continuum Mechanics and Mechanics of Materials; Optical and Electronic Materials; Nanoscale Science and Technology

Target groups
Research

Type of publication
Monograph

Usually dispatched within 3 to 5 business days

2012. XI, 257 p. 185 illus. Hardcover

$129.00

Multiresonator-Based Chipless RFID
Barcode of the Future

This vital new resource offers engineers and researchers a window on important new technology that will supersede the barcode and is destined to change the face of logistics and product data handling. In the last two decades, radio-frequency identification has grown fast, with accelerated take-up of RFID into the mainstream through its adoption by key users such as Wal-Mart, K-Mart and the US Department of Defense. RFID has many potential applications due to its flexibility, capability to operate out of line of sight, and its high data-carrying capacity. Yet despite optimistic projections of a market worth $25 billion by 2018, potential users are concerned about costs and investment returns. Clearly demonstrating the need for a fully printable chipless RFID tag as well as a powerful and efficient reader to assimilate the tag’s data, this book moves on to describe both. Introducing the general concepts in the field including technical data, it then describes how a chipless RFID tag can be made using…

Features
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Contents

Fields of interest
Electronics and Microelectronics, Instrumentation; Signal, Image and Speech Processing; Information and Communication, Circuits

Target groups
Research

Type of publication
Monograph

Usually dispatched within 3 to 5 business days

2012. XXI, 170 p. 189 illus., 29 in color. Hardcover

$129.00
ISBN 978-1-4614-2094-1

Nonlinear Approaches in Engineering Applications

Nonlinear Approaches in Engineering Applications focuses on nonlinear phenomena that are common in the engineering field. The nonlinear approaches described in this book provide a sound theoretical base and practical tools to design and analyze engineering systems with high efficiency and accuracy and with less energy and downtime. Presented here are nonlinear approaches in areas such as dynamic systems, optimal control and approaches in nonlinear dynamics and acoustics. Coverage encompasses a wide range of applications and fields including mathematical modeling and nonlinear behavior as applied to microresonators, nanotechnologies, nonlinear behavior in soil erosion, nonlinear population dynamics, and optimization in reducing vibration and noise as well as vibration in triple-walled carbon nanotubes.

Features
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Contents

Fields of interest
Vibration, Dynamical Systems, Control; Control , Robotics, Mechatronics; Calculus of Variations and Optimal Control; Optimization

Target groups
Research

Type of publication
Monograph

Usually dispatched within 3 to 5 business days

2012. XXXII, 535 p. 278 illus., 113 in color. Hardcover

$229.00
ISBN 978-1-4614-1468-1
Onboard Computers, Onboard Software and Satellite Operations

An Introduction

This book is intended as a system engineer’s compendium, explaining the dependencies and technical interactions between the onboard computer hardware, the onboard software and the spacecraft operations from ground. After a brief introduction on the subsequent development in all three fields over the spacecraft engineering phases each of the main topics is treated in depth in a separate part. The features of today’s onboard computers are explained at hand of their historic evolution over the decades from the early days of spaceflight up to today. Latest system-on-chip processor architectures are treated as well as all onboard computer major components. After the onboard computer hardware the corresponding software is treated in a separate part. Both the software static architecture as well as the dynamic architecture are covered, and development technologies as well as software verification approaches are included. Following these two parts on the onboard architecture, the last part covers the concept of onboard software.

Features

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Contents


Fields of interest

Aerospace Technology and Astronautics; Computer Hardware; Electronics and Microelectronics; Instrumentation

Target groups

Research

Type of publication

Monograph

Usually dispatched within 3 to 5 business days

2012. XIV, 286 p. 163 illus., 116 in color. (Springer Aerospace Technology) Hardcover

$129.00
ISBN 978-3-642-25169-6

Parametric Resonance in Dynamical Systems

Parametric Resonance in Dynamical Systems discusses the phenomenon of parametric resonance and its occurrence in mechanical systems, vehicles, motorcycles, aircraft and marine craft, along micro-electro-mechanical systems. The contributors provide an introduction to the root causes of this phenomenon and its mathematical equivalent, the Mathieu-Hill equation. Also included is a discussion of how parametric resonance occurs on ships and offshore systems, and its frequency in mechanical and electrical systems. This volume is ideal for researchers and mechanical engineers working in application fields such as MEMS, maritime, aircraft and ground vehicle engineering.

Features

Parametric Resonance in Dynamical Systems discusses the phenomenon of parametric resonance and its occurrence in mechanical systems, vehicles, motorcycles, aircraft and marine craft, and micro-electro-mechanical systems. The contributors provide an introduction to the root causes of this phenomenon and its mathematical equivalent, the Mathieu-Hill equation. Also included is a discussion of how ...

Contents


Fields of interest

Vibration, Dynamical Systems, Control; Systems Theory; Control; Control

Target groups

Research

Type of publication

Monograph

Usually dispatched within 3 to 5 business days

2012. XIV, 330 p. 143 illus. Hardcover

$179.00

Practical Applications of Intelligent Systems

Proceedings of The Sixth International Conference on Intelligent Systems and Knowledge Engineering, Shanghai, China, Dec 2011 (ISKE 2011)

Proceedings of The Sixth International Conference on Intelligent System and Knowledge Engineering presents selected papers from the conference ISKE 2011, held December 15-17 in Shanghai, China. This proceedings doesn’t only examine original research and approaches in the broad areas of intelligent systems and knowledge engineering, but also present new methodologies and practices in intelligent computing paradigms. The book introduces the current scientific and technical advances in the fields of artificial intelligence, machine learning, pattern recognition, data mining, information retrieval, knowledge-based systems, knowledge representation and reasoning, multi-agent systems, natural-language processing, etc. Furthermore, new computing methodologies are presented, including cloud computing, service computing and pervasive computing with traditional intelligent methods. The proceedings will be beneficial for both researchers and practitioners who want to utilize intelligent methods in their...

Features

Proceedings of The Sixth International Conference on Intelligent System and Knowledge Engineering presents selected papers from the conference ISKE 2011, held December 15-17 in Shanghai, China. This proceedings doesn’t only examine original research and approaches in the broad areas of intelligent systems and knowledge engineering, but also present new methodologies and practices in intelligent computing ...

Contents

Social Computing, Mobile and Service Computing - Intelligent Game and Human Computer Interaction - Intelligent Engineering System - Intelligent Control systems - Intelligent GIS, Networks or the Internet of Things - Social Issues of Knowledge Engineering.

Fields of interest

Computational Intelligence; Data Mining and Knowledge Discovery; Artificial Intelligence (incl. Robotics); Signal, Image and Speech Processing; Information Systems Applications (incl.Internet); Information Storage and Retrieval

Target groups

Research

Type of publication

Proceedings

Usually dispatched within 3 to 5 business days


$399.00
ISBN 978-3-642-25657-8
Proceedings of the International Conference on IT Convergence and Security 2011

As we entered the 21st century, the rapid growth of information technology has changed our lives more conveniently than we have ever speculated. Recently in all fields of the industry, heterogeneous technologies have converged with information technology resulting in a new paradigm, information technology convergence. In the process of information technology convergence, the latest issues in the structure of data, system, network, and infrastructure have become the most challenging task. Proceedings of the International Conference on IT Convergence and Security 2011 approaches the subject matter with problems in technical convergence and convergences of security technology by looking at new issues that arise from techniques converging. The general scope is convergence security and the latest information technology with the following most important features and benefits: 1. Introduction of the most recent information technology and its related ideas. 2. Applications and problems related to [...]

Features
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Contents

Fields of interest
Communications Engineering, Networks; Systems and Data Security; Software Engineering; Data Mining and Knowledge Discovery; Artificial Intelligence (incl. Robotics)

Target groups
Research

Type of publication
Proceedings

Usually dispatched within 3 to 5 business days

2012. XIII, 203 p. 116 illus. Hardcover

$129.00

Regularity and Complexity in Dynamical Systems

Regularity and Complexity in Dynamical Systems describes periodic and chaotic behaviors in dynamical systems, including continuous, discrete, impulsive, discontinuous, and switching systems. In traditional analysis, the periodic and chaotic behaviors in continuous, nonlinear dynamical systems were extensively discussed even if unsolved. In recent years, there has been an increasing amount of interest in periodic and chaotic behaviors in discontinuous dynamical systems because such dynamical systems are prevalent in engineering. Usually, the smoothing of discontinuous dynamical system is adopted in order to use the theory of continuous dynamical systems. However, such technique cannot provide suitable results in such discontinuous systems. In this book, an alternative way is presented to discuss the periodic and chaotic behaviors in discontinuous dynamical systems.

Features
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Contents

Fields of interest
Applied Mathematics / Computational Methods of Engineering; Complex Systems; Numerical and Computational Physics; Nonlinear Dynamics

Target groups
Research

Type of publication
Monograph

Usually dispatched within 3 to 5 business days

2012. XI, 493 p. 196 illus. Hardcover

$179.00
ISBN 978-1-4614-1523-7
Remote Instrumentation for eScience and Related Aspects

This book will focus on new Remote Instrumentation aspects related to middleware architecture, high-speed networking, wireless Grid for acquisition devices and sensor networks, QoS provisioning for real-time control, measurement instrumentation and methodology. Moreover, it will provide knowledge about the automation of mechanisms oriented to accompanying processes that are usually performed by a human. Another important point of this book is focusing on the future trends concerning Remote Instrumentation systems development and actions related to standardization of remote instrumentation mechanisms.

Features
Making scientific instruments a manageable resource over distributed computing infrastructures such as the grid has been a key focal point of e-science research in recent years. It is now known by the generic term 'remote instrumentation', and is the subject of this useful volume that covers a range of perspectives on the topic reflected by the contributions to the 2010 workshop on remote instrumentation [...]
Solar Hydrogen Energy Systems

Science and Technology for the Hydrogen Economy

It is just a matter of time when fossil fuels will become unavailable or uneconomical to retrieve. On top of that, their environmental impact is already too severe. Renewable energy sources can be considered as the most important substitute to fossil energy, since they are inexhaustible and have a very low, if none, impact on the environment. Still, their unevenness and unpredictability are drawbacks that must be dealt with in order to guarantee a reliable and steady energy supply to the final user. Hydrogen can be the answer to these problems. This book presents the readers with the modeling, functioning and implementation of solar hydrogen energy systems, which efficiently combine different technologies to convert, store and use renewable energy. Sources like solar photovoltaic or wind, technologies like electrolysis, fuel cells, traditional and advanced hydrogen storage are discussed and evaluated together with system management and output performance. Examples are also given to show how these [...] 

Features
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Contents
Hydrogen
- Electrolysis and Fuel Cells
- Solar Radiation and Photovoltaic Conversion
- Wind Energy
- Other Renewable Energy Sources for Hydrogen Production
- Hydrogen Storage
- Other Electricity Storage Technologies
- Study and Simulation of Solar Hydrogen Energy Systems
- Real-Life Implementations of Solar Hydrogen Energy Systems

Fields of interest
Engineering (general); Renewable and Green Energy

Target groups
Professional/practitioner

Type of publication
Monograph

Due: February 12, 2012

2012, XVI, 184 p. Softcover
$139.00

D.M. Flouinoy, Ohio University, Athens, OH, USA

Solar Power Satellites

Communication satellites are a $144 billion industry. Is there any space-based industry that could possibly beat that market? 'Solar Power Satellites' shows why and how the space satellite industry will soon begin expanding its market from relaying signals to Earth to generating energy in space and delivering it to the ground as electricity. In all industrialized nations, energy demand is growing exponentially. In the developing world, the need for energy is as basic as food and water. The Sun's energy is available everywhere, and it is non-polluting. As business plans demonstrate its technical feasibility, commercial potential, and environmental acceptability, every country on Earth will look to space for the power it needs.

Features
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Contents

Fields of interest
Aerospace Technology and Astronautics; Extraterrestrial Physics, Space Sciences; Renewable and Green Energy

Target groups
Research

Type of publication
Brief

Usually dispatched within 3 to 5 business days

$49.95

T.J. Kazmierski, University of Southampton, UK; A. Morawiec, Electronic Chip and Systems Design Initiative, Gênes, France (Eds.)

System Specification and Design Languages

Selected Contributions from FDL 2010

This book brings together a selection of the best papers from the thirteenth edition of the Forum on specification and Design Languages Conference (FDL), which was held in Southampton, UK in September 2010. FDL is a well established international forum devoted to dissemination of research results, practical experiences and new ideas in the application of specification, design and verification languages to the design, modelling and verification of integrated circuits, complex hardware/software embedded systems, and mixed-technology systems.

Features
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Contents

Fields of interest
Circuits and Systems; Electronics and Microelectronics, Instrumentation; Processor Architectures

Target groups
Research

Type of publication
Proceedings

Usually dispatched within 3 to 5 business days

$129.00
ISBN 978-1-4614-1426-1
Theory of Arched Structures
Strength, Stability, Vibration

The Theory of Arched Structures: Strength, Stability, Vibration presents detailed procedures for analytical analysis of the strength, stability, and vibration of arched structures of different types, using exact analytical methods of classical structural analysis. The material discussed is divided into four parts. Part I covers stress and strain with a particular emphasis on analysis; Part II discusses stability and gives an in-depth analysis of elastic stability of arches and the role that matrix methods play in the stability of the arches; Part III presents a comprehensive tutorial on dynamics and free vibration of arches, and forced vibration of arches; and Part IV offers a section on special topics which contains a unique discussion of plastic analysis of arches and the optimal design of arches.

Features
The Theory of Arched Structures: Strength, Stability, Vibration presents detailed procedures for analytical analysis of the strength, stability, and vibration of arched structures of different types, using exact analytical methods of classical structural analysis. The material discussed is divided into four parts. Part I covers stress and strain with a particular emphasis on analysis; Part II [...] Contents

Fields of interest
Civil Engineering; Structural Mechanics; Geomaterials; Foundations; Hydraulics; Structural Materials

Target groups
Research

Type of publication
Monograph

Usually dispatched within 3 to 5 business days

2012. XXVII, 429 p. 220 illus. Hardcover

$179.00

Variation Tolerant On-Chip Interconnects

This book presents design techniques, analysis and implementation of high performance and power efficient, variation tolerant on-chip interconnects. Given the design paradigm shift to multi-core, interconnect-centric designs and the increase in sources of variability and their impact in sub-100nm technologies, this book will be an invaluable reference for anyone concerned with the design of next generation, high-performance electronics systems.

Features
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Fields of interest
Circuits and Systems; Electronics and Microelectronics; Instrumentation; Nanotechnology and Microengineering

Target groups
Research

Type of publication
Monograph

Usually dispatched within 3 to 5 business days


$129.00

Variational Models and Methods in Solid and Fluid Mechanics

Variational methods give an efficient and elegant way to formulate and solve mathematical problems that are of interest to scientists and engineers. In this book three fundamental aspects of the variational formulation of mechanics will be presented: physical, mathematical and applicative ones. The first aspect concerns the investigation of the nature of real physical problems with the aim of finding the best variational formulation suitable to those problems. The second aspect is the study of the well-posedness of those mathematical problems which need to be solved in order to draw previsions from the formulated models. And the third aspect is related to the direct application of variational analysis to solve real engineering problems.

Features
Variational methods give an efficient and elegant way to formulate and solve mathematical problems that are of interest to scientists and engineers. In this book three fundamental aspects of the variational formulation of mechanics will be presented: physical, mathematical and applicative ones. The first aspect concerns the investigation of the nature of real physical problems with the aim of finding the [...] Contents

Fields of interest
Theoretical and Applied Mechanics; Calculus of Variations and Optimal Control; Optimization; Mechanics

Target groups
Research

Type of publication
Monograph

Due: December 29, 2011


$209.00
ISBN 978-3-7091-0982-3
Vehicle Dynamics and Control

Vehicle Dynamics and Control provides a comprehensive coverage of vehicle control systems and the dynamic models used in the development of these control systems. The control system applications covered in the book include cruise control, adaptive cruise control, ABS, automated lane keeping, automated highway systems, yaw stability control, engine control, passive, active and semi-active suspensions, tire-road friction coefficient estimation, rollover prevention, and hybrid electric vehicles. In developing the dynamic model for each application, an effort is made to both keep the model simple enough for control system design but at the same time rich enough to capture the essential features of the dynamics. A special effort has been made to explain the several different tire models commonly used in literature and to interpret them physically.In the second edition of the book, chapters on roll dynamics, rollover prevention and hybrid electric vehicles have been added, and the chapter on electronic...[1]

Features

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Contents


Fields of interest

Mechanical Engineering; Control; Vibration, Dynamical Systems, Control; Automotive Engineering

Target groups

Research

Type of publication

Monograph

Usually dispatched within 3 to 5 business days

2012. XXV, 496 p. 233 illus. (Mechanical Engineering Series) Hardcover

$139.00


WDM Systems and Networks

Modeling, Simulation, Design and Engineering

Modeling, Simulation, Design and Engineering of WDM Systems and Networks provides readers with the basic skills, concepts, and design techniques used to begin design and engineering of optical communication systems and networks at various layers. The latest semi-analytical system simulation techniques are applied to optical WDM systems and networks, and a review of the various current areas of optical communications is presented. Simulation is mixed with experimental verification and engineering to present the industry as well as state-of-the-art research. This contributed volume is divided into three parts, accommodating different readers interested in various types of networks and applications. The first part of the book presents modeling approaches and simulation tools mainly for the physical layer including transmission effects, devices, subsystems, and systems), whereas the second part features more engineering/design issues for various types of optical systems including ULH, access, and[..]

Features

WDM Systems and Networks: Modeling, Simulation, Design and Engineering provides readers with the basic skills, concepts, and design techniques used to begin design and engineering of optical communication systems and networks at various layers. The latest semi-analytical system simulation techniques are applied to optical WDM systems and networks, and a review of the various current areas of optical[..]

Contents


Fields of interest

Microwaves, RF and Optical Engineering; Communications Engineering, Networks; Signal, Image and Speech Processing

Target groups

Research

Type of publication

Contributed volume

Usually dispatched within 3 to 5 business days

2012. XVI, 532 p. 195 illus., 19 in color. (Optical Networks) Hardcover

$229.00

ISBN 978-1-4614-1092-8

Environ"
Water, Cultural Diversity, and
Global Environmental Change

Emerging Trends, Sustainable Futures?

A product of the UNESCO-IHP project on Water and Cultural Diversity, this book represents an effort to examine the complex role water plays as a force in sustaining, maintaining, and threatening the viability of culturally diverse peoples. It is argued that water is a fundamental human need, a human right, and a core sustaining element in biodiversity and cultural diversity. The core concepts utilized in this book draw upon a larger trend in sustainability science, a recognition of the synergism and analytical potential in utilizing a coupled biological and social systems analysis, as the functioning viability of nature is both sustained and threatened by humans.

Features
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Contents
1. Water and cultural diversity.
2. Culture and Water in Diverse Environments.
3. Water value, access, use, and control: sociocultural contexts of water scarcity.
4. Hydrodevelopment, Cultural Diversity and Sustainability.
5. The Ways Forward.

Fields of interest
Marine & Freshwater Sciences; Sustainable Development; Environment (general); Biodiversity; Freshwater & Marine Ecology

Target groups
Research

Type of publication
Contributed volume

Due: January 28, 2012

2012. XLVIII, 560 p. 195 illus., 138 in color. Hardcover

$179.00

General Science

E. Lichtfouse, INRA, Dijon, France

Rédiger pour être publié!

Conseils pratiques pour les scientifiques

Publier ou périr. Cet adage illustre l’importance de la communication scientifique ; essentielle pour les chercheurs, elle est aussi un secteur stratégique pour la compétitivité d’une nation. Domaine souvent négligé, la communication scientifique prend une importance vitale avec les nouvelles technologies informatiques qui accélèrent et modifient en profondeur la diffusion des connaissances. La nécessité de bien communiquer ses découvertes aux spécialistes devient cruciale pour les chercheurs, les instituts et les universités du fait du recours récent aux facteurs d’impact pour évaluer et financer la recherche. La science doit être également diffusée très largement vers le public, en particulier les médias, les entrepreneurs et les acteurs sociopolitiques. Ce manuel expose les règles d’or de la rédaction d’un article scientifique. Conçu à partir des défauts majeurs rencontrés, l’auteur explique la manière de structurer facilement un article et expose les remèdes aux défauts typiques des auteurs[...]

Features
Publier ou périr. Cet adage illustre l’importance de la communication scientifique ; essentielle pour les chercheurs, elle est aussi un secteur stratégique pour la compétitivité d’une nation. Domaine souvent négligé, la communication scientifique prend une importance vitale avec les nouvelles technologies informatiques qui accélèrent et modifient en profondeur la diffusion des connaissances. La[...]

Fields of interest
Science; Life Sciences (general); Medicine (general); Science Education; Learning and Instruction

Target groups
Professional/practitioner

Type of publication
Teachers manual

Due: mars 28, 2012

2012. 116 p. 24 ill. en couleurs. Softcover

$39.95
Weighing the World

The Reverend John Michell of Thornhill

The book about John Michell (1724-93) has two parts. The first and longest part is biographical, an account of Michell’s home setting (Nottinghamshire in England), the clerical world in which he grew up (Church of England), the university (Cambridge) where he studied and taught, and the scientific activities he made the center of his life. The second part is a complete edition of his known letters. Half of his letters have not been previously published; the other half are brought together in one place for the first time. The letters touch on all aspects of his career, and because they are in his words, they help bring the subject to life. His publications were not many, a slim book on magnets and magnetism, one paper on geology, two papers on astronomy, and a few brief papers on other topics, but they were enough to leave a mark on several sciences. He has been called a geologist, an astronomer, and a physicist, which he was, though we best remember him as a natural philosopher, as one who [...]
Die Organuntreue zu Lasten von Kapitalgesellschaften

Eine Analyse der Strafbestimmung des § 153 StGB

Die Autorin analysiert die Frage der strafrechtlichen Verantwortlichkeit von Vorstandsmitgliedern bzw. Geschäftsführern zu Lasten ihrer Kapitalgesellschaft und beleuchtet damit das derzeit wohl brisanteste Thema des Wirtschaftsstrafrechts, das nicht zuletzt aufgrund der derzeitigen Medienpräsenz mit großen Unsicherheiten behaftet ist. Diese tiefgreifende Analyse zeigt daher gerade die Problembereiche auf, die sich aus der Beeinflussung des Strafrechts durch das Gesellschaftsrecht ergeben können und erschließt die aktuellen Fragestellungen in einem dogmatisch fundierten Kontext.

Features
Die Autorin analysiert die Frage der strafrechtlichen Verantwortlichkeit von Vorstandsmitgliedern bzw. Geschäftsführern zu Lasten ihrer Kapitalgesellschaft und beleuchtet damit das derzeit wohl brisanteste Thema des Wirtschaftsstrafrechts, das nicht zuletzt aufgrund der derzeitigen Medienpräsenz mit großen Unsicherheiten behaftet ist. Diese tiefgreifende Analyse zeigt daher gerade die Problembereiche auf, die [...]
**Grundrechte und Grundfreiheiten im Mehrebenensystem – Konkurrenzen und Interferenzen**


**Features**


**Contents**


**Fields of interest**

Public International Law, Philosophy (general)

**Type of publication**

Monograph

**Due:** Januar 28, 2012

2012. XLII, 940 S. (Beiträge zum ausländischen öffentlichen Recht und Völkerrecht, Vol. 231) Hardcover

$199.00
ISBN 978-3-642-24883-2
Privacy Impact Assessment

Virtual all organisations collect, use, process and share personal data from their employees, customers and/or citizens. In doing so, they may be exposing themselves to risks, from threats and vulnerabilities, of that data being breached or compromised by negligent or wayward employees, hackers, the police, intelligence agencies or third-party service providers. A recent study by the Ponemon Institute found that 70 per cent of organisations surveyed had suffered a data breach in the previous year. Privacy impact assessment is a tool, a process, a methodology to identify, assess, mitigate or avoid privacy risks and, in collaboration with stakeholders, to identify solutions. Contributors to this book – privacy commissioners, academics, consultants, practitioners, industry representatives – are among the world’s leading PIA experts. They share their experience and offer their insights to the reader in the policy and practice of PIA in Australia, Canada, New Zealand, the United Kingdom, the United[...]

Features

Virtual all organisations collect, use, process and share personal data from their employees, customers and/or citizens. In doing so, they may be exposing themselves to risks, from threats and vulnerabilities, of that data being breached or compromised by negligent or wayward employees, hackers, the police, intelligence agencies or third-party service providers. A recent study by the Ponemon Institute found that 70 per cent of organisations surveyed had suffered a data breach in the previous year. Privacy impact assessment is a tool, a process, a methodology to identify, assess, mitigate or avoid privacy risks and, in collaboration with stakeholders, to identify solutions. Contributors to this book – privacy commissioners, academics, consultants, practitioners, industry representatives – are among the world’s leading PIA experts. They share their experience and offer their insights to the reader in the policy and practice of PIA in Australia, Canada, New Zealand, the United Kingdom, the United[...]

Schiedsverfahrenrecht

Band I


Features


Contents


Fields of interest

Civil Law

Target groups

Professional/practitioner

Type of publication

Handbook

Springer does not distribute this product in your location.

2012. XXVIII, 630 S. Hardcover

$469.00

Prepublication price valid until February 29, 2012

$129.00

ISBN 978-3-211-09470-9

2012, XVIII, 523 p. 21 illus., 19 in color. (Law, Governance and Technology Series, Vol. 6) Hardcover

$189.00

ISBN 978-94-007-2542-3

Targeted Killings and International Law

With Special Regard to Human Rights and International Humanitarian Law

Existing international law is capable of govern the "war on terror" also in the aftermath of September 11, 2001. The standards generally applicable to targeted killings are those of human rights law. Force may be used in order to address immediate threats, preventive killings are permitted under strict preconditions but targeted killings are prohibited. In the context of armed conflicts, these standards are complemented by international humanitarian law as lex specialis. Civilians may only be targeted while directly taking part in hostilities and posing a threat to the adversary. Also in Israel and the Occupied Territory, these standards apply. Contrary to the Israeli Supreme Court’s view, international humanitarian law is not complemented by human rights law, but human rights law is – to some degree – complemented by international humanitarian law. According to these standards, many killings which would be legal according to the Israeli Supreme Court violate international law.

Features

Contents


Fields of interest

International Criminal Law; International Humanitarian Law, Law of Armed Conflict; Human Rights

Target groups

Research

Type of publication

Monograph

Due: January 28, 2012


$149.00

ISBN 978-3-642-24857-3
Österreichisches Bankvertragsrecht

Band IX: Kreditsicherheiten, Teil II

Der vorliegende Band hat ein Problemfeld zum Inhalt, das in der Vorauflage nicht behandelt worden ist. Es geht um die Realsicherheiten (Sachsicherheiten), also solche Sicherheiten, durch die dem Kreditgeber vom Kreditnehmer oder von einer anderen Person ein bevorzugtes Befriedigungsrecht an einer bestimmten körperlichen Sache oder an einer Forderung eingeräumt wird. Der Band gliedert sich in folgende sieben Kapitel: Notarkandidat Dr. G. Eicher behandelt das Pfandrecht an beweglichen Sachen, Univ.-Prof. Dr. G. Iro stellt das Hypothekenrecht dar, von Univ.-Prof. Dr. Andreas Riedler stellen einerseits das Kapitel über den Eigentumsvorbehalt und zum anderen das über Konsortialkredite – Sicherheitenbestellung und Sicherheitenpoolung, a.Univ.-Prof. Dr. P. Apathy bearbeitet die Sicherungsübereignung und die Sicherungssezession (einschließlich der Verpfändung von Forderungen) und Dr. Bernhard Koch, RZII, hat das Kapitel über Kreditsicherheiten an Gesellschaftsanteilen, Immaterialgütern und Internet-Domains verfasst.

Features
Der vorliegende Band hat ein Problemfeld zum Inhalt, das in der Vorauflage nicht behandelt worden ist. Es geht um die Realsicherheiten (Sachsicherheiten), also solche Sicherheiten, durch die dem Kreditgeber vom Kreditnehmer oder von einer anderen Person ein bevorzugtes Befriedigungsrecht an einer bestimmten körperlichen Sache oder an einer Forderung eingeräumt wird. Der Band gliedert sich in folgende [...] Contents

Fields of interest
Civil Law
Target groups
Professional/practitioner
Type of publication
Handbook
Due: Januar 2, 2012

2012, XXX, 530 S. (Springer Handbücher der Rechtswissenschaft) Hardcover

$139.00
ISBN 978-3-211-99458-0

K. Korinek, Verfassungsgerichtshof Wien; M. Holoubek, Wirtschaftsuniversität Wien (Eds.)

Österreichisches Bundesverfassungsrecht

Textsammlung und Kommentar, 10. Lieferung


Features
Constitutional Law
Target groups
Professional/practitioner
Type of publication
Loose-leaf publication
Due: Januar 11, 2012

2012. 946 S. Ring binder

$369.00
ISBN 978-3-7091-0997-7

U. Frauenberger-Pfeifer, Universität Wien; N. Raschner, Johannes Kepler Universität Linz; P. Sander, NH Niederhuber Hager Rechtsanwälte GmbH, Wien; W. Wessely, UVS Niederösterreich, Wirtschaft

Österreichisches Zustellrecht

Kommentar

Features
Civil Procedure Law; Administrative Law; Public International Law
Target groups
Professional/practitioner
Type of publication
Reference work
Due: Januar 12, 2012

2012. XXX, 644 S. Hardcover

$169.00
ISBN 978-3-7091-0412-5

Hager Rechtsanwälte GmbH, Wien; W. Wessely, UVS Niederösterreich, Wissenschaft
**Amino Acid Analysis**

**Methods and Protocols**

Amino Acid Analysis (AAA) is an integral part of analytical biochemistry. In a relatively short time, the variety of AAA methods has evolved dramatically with more methods shifting to the use of mass spectrometry (MS) as a detection method. Another new aspect is miniaturization. However, most importantly, AAA in this day and age should be viewed in the context of Metabolomics as a part of Systems Biology. 

**Features**

- Amino Acid Analysis (AAA) is an integral part of analytical biochemistry.
- Rapid LC-MS/MS Profiling of Protein Amino Acids and Metabolically Related Compounds for Large-Scale Assessment of Metabolic Phenotypes.
- Combination of an AccQ·Tag Ultra Performance Liquid Chromatographic Method with Tandem Mass Spectrometry for the Analysis of Amino Acids.
- Isotope Dilution Liquid Chromatography-Tandem Mass Spectrometry for Quantitative Amino Acid Analysis.
- Amino Acid Analysis via LC-MS Method after Derivatization with...[...]

**Fields of interest**

- Protein Science
- Analytical Chemistry

**Target groups**

Research

**Type of publication**

Proceedings

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


$209.00


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**Bacterial Molecular Networks**

**Methods and Protocols**

Network-based representations have become pervasive in most fields in biology. Bacterial Molecular Networks: Methods and Protocols provides authoritative descriptions of various experimental and computational methods enabling the characterization and analysis of molecular interaction networks, with a focus on bacteria. Divided into three convenient sections, this volume provides extensive coverage of various experimental and in silico approaches aiming at the characterization of network components, addresses the presentation of computational approaches to analyze the topology of molecular networks, and further introduces a variety of methods and tools enabling scientists to generate qualitative or quantitative dynamical models of molecular processes in bacteria. 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 protocols, and notes.[...]

**Features**

- Network-based representations have become pervasive in most fields in biology.
- Bacterial Molecular Networks: Methods and Protocols provides authoritative descriptions of various experimental and computational methods enabling the characterization and analysis of molecular interaction networks, with a focus on bacteria.
- Divided into three convenient sections, this volume provides extensive coverage.[...]

**Fields of interest**

- Microbiology
- Bacteriology

**Target groups**

Professional/practitioner

**Type of publication**

Contributed volume

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


$139.00


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Beta maritima

The Origin of Beets

Along the undisturbed shores, especially of the Mediterranean Sea and the European North Atlantic Ocean, is a quite widespread plant called Beta maritima by botanists, or more commonly sea beet. Nothing, for the inexperienced observer’s eye, distinguishes it from surrounding wild vegetation. Despite its inconspicuous and nearly invisible flowers, the plant has had and will have invaluable economic and scientific importance. Indeed, according to Linne, it is considered “the progenitor of the beet crops possibly born from Beta maritima in some foreign country”. Recent molecular research confirmed this lineage. Selection applied after domestication has created many cultivated types with different destinations. The wild plant always has been harvested and used both for food and as a medicinal herb. Sea beet crosses easily with the cultivated types. This facilitates the transmission of genetic traits lost during domestication, which selection processes aimed only at features immediately useful to[…]

Features

Along the undisturbed shores, especially of the Mediterranean Sea and the European North Atlantic Ocean, is a quite widespread plant called Beta maritima by botanists, or more commonly sea beet. Nothing, for the inexperienced observer’s eye, distinguishes it from surrounding wild vegetation. Despite its inconspicuous and nearly invisible flowers, the plant has had and will have invaluable economic […]

Contents


Fields of interest

Plant Sciences; Plant Breeding / Biotechnology; Plant Anatomy / Development; Plant Physiology; Plant Genetics and Genomics

Target groups

Research

Type of publication

Monograph

Usually dispatched within 3 to 5 business days

2012. XVII, 293 p. 126 illus., 81 in color. Hardcover

$209.00

Bone Research Protocols

Studies over the past decade have continued to bring tremendous advances to our understanding of bone biology. New pathways have been discovered and expanded our knowledge of the ways in which genes and gene products affect bone cells and thereby bone mass and bone strength. In Bone Research Protocols, Second Edition, expert researchers in the field detail many methods commonly used to study bone biology. Focusing mainly on in vitro methods, this volume gives techniques for isolation, culture and functional analysis of all bone cell types and details a range of imaging methods, including light and ultrastructural microscopy and live cell imaging. Some important in vivo techniques are included, such as analysis of bone resorption and imaging using X-rays, fluorescent or luminescent techniques. Methods for study of proteins and nucleic acid are included and methods for analysis of bone composition, measurement of bone strength, and response to mechanical stimulation are described. Written in the[…]

Features

Studies over the past decade have continued to bring tremendous advances to our understanding of bone biology. New pathways have been discovered and expanded our knowledge of the ways in which genes and gene products affect bone cells and thereby bone mass and bone strength. In Bone Research Protocols, Second Edition, expert researchers in the field detail many methods commonly used to study bone […]

Contents

Primary Human Osteoblast Cultures - Osteoblast Isolation from Murine Calvaria and Long Bones - Rat Osteoblast Cultures - Isolation of primary avian Osteocytes - Isolation of Mouse Osteocytes using Cell Fractionation for Gene Expression Analysis - Studying Osteocyte Function using the Cell Lines MLO-Y4 and MLO-A5 - Isolation, Differentiation and Characterisation of Human Bone Marrow Stem Cells in vitro and in vivo - Rodent Osteoclast Cultures - Isolation and Culture of Primary Chicken Osteoclasts - ISOLATION AND PURIFICATION OF RABBIT OSTEOCLASTS - Generation of Human Osteoclasts from Periphera[[…]

Fields of interest

Cell Biology; Developmental Biology; Animal Anatomy / Morphology / Histology

Target groups

Professional/practitioner

Type of publication

Contributed volume

Usually dispatched within 3 to 5 business days


$159.00
ISBN 978-1-61779-414-8

Carbon Sequestration in Urban Ecosystems

Urbanization drastically alters the ecosystems structure and functions, disrupts cycling of C and other elements along with water. It alters the energy balance and influences climate at local, regional and global scales. In 2008, urban population exceeded the rural population. In 2050, 70% of the world population will live in urban centers. The number of megacities (10 million inhabitants) increased from three in 1975 to 19 in 2007, and is projected to be 27 in 2025. Rapid urbanization is altering the ecosystem C-budget. Yet, urban ecosystems have a large C sink capacity in soils and biota. Judicious planning and effective management can enhance C pool in urban ecosystems, and off-set some of the anthropogenic emissions. Principal components with regards to C sequestration include home lawns and turfs, urban forests, green roofs, park and recreational/sports facilities and urban agriculture.

Features

Rapid urbanization started since early 1950s. Among numerous consequences of urbanization are change in landuse and land cover including deforestation, encroachment of prime farmland, and alterations in landscape. These consequences reduce the ecosystem carbon stocks especially in biota and soils, alter the hydrologic cycle by increasing runoff and decreasing soil water storage, change energy budget by […]

Contents


Fields of interest

Agriculture; Soil Science & Conservation; Climate Change; Geotechnical Engineering & Applied Earth Sciences; Earth System Sciences; Landscape, Regional and Urban Planning

Target groups

Professional/practitioner

Type of publication

Contributed volume

Usually dispatched within 3 to 5 business days

2012. XI, 385 p. 400 illus., 42 in color. Hardcover

$209.00
ISBN 978-94-007-2365-8
Die Käfer Mitteleuropas, Bd. 4: Staphylinidae (exklusive Aleocharinae, Pselaphinae und Scydmaeninae)

Germline Development
Methods and Protocols

The germline is unique in mammals as it is the only cell lineage that undergoes mitosis, meiosis, and differentiation, making these cells amenable to in-depth genomic and mechanistic studies. In Germline Development: Methods and Protocols, expert researchers provide a wide-ranging collection of techniques that can be applied to the study of both the male and female germline. As the techniques used for isolating and studying male and female germ cells are slightly dissimilar, the different technologies are grouped under two sections in this volume, namely, male germline and female germline. This collection brings the field of germline developmental studies together such that readers can find, in a single volume, techniques that allow the isolation of gonads with germ cells at different stages of development, the study of the genomics and epigenomics of germ cells, and an examination of the role of single genes in the developmental potential and function of germ cells. Written in the highly...

Contents
Isolation of Fetal Gonads from Embryos of Timed-Pregnant Mice for Morphological and Molecular Studies. - Neonatal Testicular Gonocytes Isolation and Processing for Immunocytochemical Analysis. - Isolation of Undifferentiated and Early Differentiating Type A Spermatogonia from Pou5f1-GFP Reporter Mice. - Isolation of Human Male Germline Stem Cells Using Enzymatic Digestion and Magnetic-Activated Cell Sorting. - Isolation and Purification of Murine Male Germ Cells. - Preparation of Enriched Mouse Sycntia-Free Pachytene Spermatocyte Cell Suspensions. - Revealing Transcriptome Landscape of Mouse... 

Fields of interest
Cell Biology; Developmental Biology

Target groups
Professional/practitioner

Type of publication
Contributed volume

Human Auditory Development

This volume will provide an important contemporary reference on hearing development and will lead to new ways of thinking about hearing in children and about remediation for children with hearing loss. Much of the material in this volume will document that a different model of hearing development and in its application to pediatric audiology.

Features
Human Auditory Development deals with what is currently known about the development of hearing and the auditory system in humans. This volume provides an important contemporary reference on hearing development and leads to new ways of thinking about hearing in children and about remediation for children with hearing loss. Much of the material in this volume documents that a different model of hearing is...

Contents

Fields of interest
Neurobiology; Otorhinolaryngology; Neurosciences

Target groups
Research

Type of publication
Contributed volume

Usually dispatched within 3 to 5 business days


$139.00

Induced Pluripotent Stem Cells

Induced Pluripotent Stem (iPS) cells are mature cells that have been genetically reprogrammed so that they return to their embryonic state. It is not yet known if iPS stem cells and embryonic stem cells differ significantly. Today many fundamental belief systems in biology are shifting towards accepting that mature body cells can be reverted to an embryonic state without the help of eggs or embryos. With their changed identities, iPS cells are then ready to serve as new tools for research in the fields of disease pathogenesis, drug discovery, oncology, and cell transplantation. One example of this would be using iPS from a patient’s mature cells to repair damaged tissue; it is thought that there would be very low incidence of rejection of the ‘new’ tissue in these cases. For the last four years, this therapeutic promise has been studied by hundreds of researchers worldwide in an effort to understand the ability of these cells to reverse their biological clocks.

Features

Contents
Introduction.- Pluripotent Cells. - Pluripotent Cells. - Transcriptional Networks and Signaling Pathways of Pluripotency. - Induced Pluripotent Stem Cells (iPSCs). - Generation of the First iPSCs. - Reprogramming. - Molecular Mechanisms of Pluripotency. - Steps in Reprogramming. - Mechanisms in Reprogramming. - Dynamics of Direct Reprogramming. - Epigenetic Modifications. - Similarities and Differences between iPSCs and ESs. - Modeling Disease in a Dish. - Disease Specific iPSCs. - Choosing Cell Sources. - Identification of iPSC Colonies. - Characterization of Genetic Mutation. - iPSCs Differentiation into... 

Fields of interest
Stem Cells; Cell Biology; Biotechnology

Target groups
Professional/practitioner

Type of publication
Brief

Usually dispatched within 3 to 5 business days

2012. VIII, 73 p. 8 illus., 5 in color. (SpringerBriefs in Stem Cells) Softcover

$49.95
ISBN 978-1-4614-2205-1
### Life Sciences 71

#### Interactions of Yeasts, Moulds, and Antifungal Agents

**How to Detect Resistance**

The incidence of fungal infections increases with the increase in antibiotic usage and increasing immunosuppressed populations. There is no longer only one antifungal agent and the response of fungi to various agents is not always predictable. The need for standardized antifungal susceptibility testing, and standardized interpretation of results in conjunction with studies that describe clinical outcomes based on those tools is ever important. Interactions of Yeasts, Moulds, and Antifungal Agents: How to Detect Resistance covers the available antifungal agents, how to perform in vitro testing and how those results should be interpreted for the most common fungal pathogens.

**Features**

The incidence of fungal infections increases with the increase in antibiotic usage and increasing immunosuppressed populations. There is no longer only one antifungal agent and the response of fungi to various agents is not always predictable. The need for standardized antifungal susceptibility testing, and standardized interpretation of results in conjunction with studies that describe clinical outcomes [...]  

**Contents**

- Antifungal Agents
- Antifungal Susceptibility Testing: Clinical Laboratory and Standards Institute (CLSI) Methods
- Antifungal Susceptibility Testing Methods – Non CLSI Methods for Yeast and Moulds
- Susceptibility Testing of Dermatophytes
- Usual Susceptibility Patterns of Common Yeasts
- Usual Susceptibility Patterns of Common of Moulds and Systemic Fungi
- Utility of Antifungal Susceptibility Testing and Clinical Correlations

**Fields of interest**

Microbiology

**Target groups**

Research

**Type of publication**

Contributed volume

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

2012, XIII, 168 p. 2 illus. in color. Hardcover

$139.00
ISBN 978-1-58829-847-8

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#### Introduction to Data Mining for the Life Sciences

**R. Sullivan, Cincinnati, OH, USA**

**How to Detect Resistance**

Data mining provides a set of new techniques to integrate, synthesize, and analyze data, uncovering the hidden patterns that exist within. Traditionally, techniques such as kernel learning methods, pattern recognition, and data mining, have been the domain of researchers in areas such as artificial intelligence, but leveraging these tools, techniques, and concepts against your data asset to identify problems early, understand interactions that exist and highlight previously unrealized relationships through the combination of these different disciplines can provide significant value for the investigator and her organization.

**Features**

One of the major challenges for the scientific community, a challenge that has been seen in many business disciplines, is the exponential increase in data being generated by new experimental techniques and research. A single microarray experiment, for example, can generate thousands of data points that need to be analyzed, and this problem is predicted to increase. As new techniques in areas such as [...]  

**Contents**

- Introduction
- Fundamental Concepts
- Data Architecture and Data Modeling
- Representing Data Mining Results
- The Input Side of the Equation
- Statistical Methods
- Bayesian Statistics
- Machine Learning Techniques
- Classification and Prediction
- Informatics
- Systems Biology
- Let’s Call it a Day

**Fields of interest**

Bioinformatics

**Target groups**

Research

**Type of publication**

Monograph

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

2012, XVII, 631 p. 339 illus., 97 in color. Hardcover

$209.00
ISBN 978-1-58829-942-0

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#### Liver Stem Cells

**T. Ochiya, National Cancer Center Research Institute, Tokyo, Japan (Ed.)**

**How to Detect Resistance**

Increasing evidence suggests that liver stem cells have the capacity to differentiate into parenchymal hepatocytes or into bile ductular cells. These stem cells may be activated to proliferate after severe liver injury or exposure to hepatocarcinogens. Stem cell replacement strategies are being investigated as an alternative approach to liver repair and regeneration. Additionally, stem cell transplantation has been shown to significantly improve liver function and increase survival in experimentally-induced liver-injury models in animals. In Liver Stem Cells: Methods and Protocols, expert researchers focus on several hepatic progenitor cells, hepatic differentiation form stem cells, bile ductal cell formation from stem cells, liver stem cells and hepatocarcinogenesis, and application of liver stem cells for cell therapy. These topics shed light on stem cell technology which may lead to the development of effective clinical modalities for human liver diseases. Written in the highly successful [...]  

**Contents**

- Purification and Culture of Fetal Mouse Hepatoblasts that are Precursors of Mature Hepatocytes and Biliary Epithelial Cells
- Clinical Uses of Liver Stem Cells
- Identification and Isolation of Adult Liver Stem/Progenitor Cells
- Isolation and Purification Method of Mouse Fetal Hepatoblasts
- Isolation of Hepatic Progenitor Cells from the Galactosamine-Treated Rat Liver
- Purification of Adipose Tissue Mesenchymal Stem cells (AT-MSC)
- Application of Liver Stem Cells from hMSC
- Isolation of Adult Human Pluripotent Stem Cells from [...]  

**Fields of interest**

Cell Biology; Stem Cells

**Target groups**

Professional/practitioner

**Type of publication**

Contributed volume

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


$119.00
ISBN 978-1-61779-467-4

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Medicinal Plant Biodiversity of Lesser Himalayas-Pakistan

The Himalayan region is among the largest mountains systems of the world with uncounted unique medicinal plants resources. The lesser Himalayas ranges are the extension of Greater Himalayas. They have unique ecology, vegetation and diversity of medicinal flora due to tremendous variation in the altitude, climate and associated wildlife. The utilization of medicinal plants in medicine suffers from the fact that although plants are used to treat diseases, scientific evidence is lacking in many cases. Different societies of the world use the plants according to their own beliefs and knowledge and previous experiences. Their knowledge about the use of the plants is usually not known to the other world or science. This book provides a brief introduction of Lesser Himalayas, ethnobotanical aspects, marketing and anthropogenic pressure on medicinal flora. It comprises one hundred medicinal plant species including Pteridophytes, Gymnosperms and Angiosperms (Monocots and Dicots) along with their scientific...[–]

Features

The Himalayan region is among the largest mountains systems of the world with uncounted unique medicinal plants resources. The lesser Himalayas ranges are the extension of Greater Himalayas. They have unique ecology, vegetation and diversity of medicinal flora due to tremendous variation in the altitude, climate and associated wildlife. The utilization of medicinal plants in medicine suffers.[–]

Contents

Introduction : Lesser Himalayas – Pakistan & Medicinal Plant Wealth. - Ethnobotanical aspects. - Medicinal Plants Inventory. Fields of interest Plant Sciences; Plant Biochemistry; Plant Anatomy / Development; Plant Physiology; Plant Genetics and Genomics Target groups Professional/practitioner

Type of publication Monograph

Usually dispatched within 3 to 5 business days

2012. XIII, 220 p. 116 illus. in color. Hardcover

$189.00

ISBN 978-1-61779-482-7

Microbial Metabolic Engineering

Methods and Protocols

Microbial metabolic engineering is the practice of genetically optimizing metabolic and regulatory networks within cells to increase production and/or recovery of certain substance from cells. In Microbial Metabolic Engineering: Methods and Protocols expert researchers in the field detail many of the methods which are now commonly used to study metabolic engineering. These include methods and techniques to engineer genes and pathways, use of modern biotechnology tools in microbial metabolic engineering, and examples of metabolic engineering for real world applications such as whole cell biosensors and acetate control in large scale fermentation. 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, Microbial Metabolic Engineering[–]...

Features

Microbial metabolic engineering is the practice of genetically optimizing metabolic and regulatory networks within cells to increase production and/or recovery of certain substance from cells. In Microbial Metabolic Engineering: Methods and Protocols expert researchers in the field detail many of the methods which are now commonly used to study metabolic engineering. These include methods and techniques to[–]...

Contents

Screening for Cellulases with Industrial Value and their use in Biomass Conversion. - Reversal of NAD/P(H) Reductase Dependence by Protein Engineering. - Quantifying Plasmid Copy Number to Investigate Plasmid Dosage Effects Associated with Directed Protein Evolution. - High Isoprenoid Flux Escherichia coli as a Host for Carotenoids Production. - Mutagenic Inverted Repeats Assisted Genome Engineering (MIRAGE) in Saccharomycoses cerevisiae: Deletion of gal. - Creation of New Metabolic Pathways or Improvement of Existing Metabolic Enzymes by in vivo Evolution in Escherichia coli. - Biosynthesis of[–]

Fields of interest Microbiology; Biochemical Engineering

Target groups Professional/practitioner

Type of publication Contributed volume

Usually dispatched within 3 to 5 business days

2012. XII, 319 p. 62 illus., 4 in color. (Methods in Molecular Biology, Vol. 834) Hardcover

$139.00


Microbial Technologies in Advanced Biofuels Production

Concerns over dwindling fossil fuel reserves and impending climate changes have focused attention worldwide on the need to discover alternative, sustainable energy sources and fuels. Biofuels, already produced on a massive industrial scale, are seen as one answer to these problems. However, very real concerns over the effects of biofuel production on food supplies, with some of the recent increases in worldwide food costs attributable to biofuel production, have lead to the realization that new, non-food substrates for biofuel production must be sought online. This book is an authoritative, comprehensive, up-to-date review of the various options under development for the production of advanced biofuels as alternative energy sources. A general overview and introductory chapters for each section place the field in the context as well as provide essential basic notions for the more general reader. Accomplished, internationally recognized experts carrying out research on individual focus areas contribute[–]...

Features

Concerns over dwindling fossil fuel reserves and impending climate changes have focused attention worldwide on the need to discover alternative, sustainable energy sources and fuels. Biofuels, already produced on a massive industrial scale, are seen as one answer to these problems. However, very real concerns over the effects of biofuel production on food supplies, with some of the recent increases in[–]...

Contents


Fields of interest Microbiology; Biochemistry; Immunology; Renewable and Green Energy

Target groups Professional/practitioner

Type of publication Contributed volume

Usually dispatched within 3 to 5 business days

2012. X, 272 p. 39 illus., 16 in color. Hardcover

$189.00

ISBN 978-1-4614-1207-6
Next Generation Microarray Bioinformatics

Methods and Protocols

Recent improvements in the efficiency, quality, and cost of genome-wide sequencing have prompted biologists and biomedical researchers to move away from microarray-based technology to ultra high-throughput, massively parallel genomic sequencing (Next Generation Sequencing, NGS) technology. In Next Generation Microarray Bioinformatics: Methods and Protocols, expert researchers in the field provide techniques to bring together current computational and statistical methods to analyze and interpreting both microarray and NGS data. These methods and techniques include resources for microarray bioinformatics, microarray data analysis, microarray bioinformatics in systems biology, next generation sequencing data analysis, and emerging applications of microarray and next generation sequencing. Written in the highly successful Methods in Molecular Biology 

Features

Recent improvements in the efficiency, quality, and cost of genome-wide sequencing have prompted biologists and biomedical researchers to move away from microarray-based technology to ultra high-throughput, massively parallel genomic sequencing (Next Generation Sequencing, NGS) technology. In Next Generation Microarray Bioinformatics: Methods and Protocols, expert researchers in the field provide techniques to bring together current computational and statistical methods to analyze and interpreting both microarray and NGS data. These methods and techniques include resources for microarray bioinformatics, microarray data analysis, microarray bioinformatics in systems biology, next generation sequencing data analysis, and emerging applications of microarray and next generation sequencing. Written in the highly successful Methods in Molecular Biology 

Contents


Fields of interest

Bioinformatics

Target groups

Professional/practitioner

Type of publication

Contributed volume

Usually dispatched within 3 to 5 business days

2012. XVI, 401 p. 96 illus., 30 in color. (Methods in Molecular Biology, Vol. 802) Hardcover

$139.00
ISBN 978-1-61779-399-8

Plant Fungal Pathogens

Methods and Protocols

Over the course of evolution, fungi have adapted to occupy specific niches, from symbiotically inhabiting the flora of the intestinal tract of mammals to saprophytic growth on leaf litter resting on the forest floor. In Plant Fungal Pathogens: Methods and Protocols, expert researchers in the field detail many of the methods which are now commonly used to study fungal plant pathogens. These include methods and techniques for model systems such as Arabidopsis thaliana as well as crop plants, aspects of fungal biology, genome annotation, next-generation sequencing, and fungal transformation and molecular tools for disease and/or pathogen quantification that are critical for revealing the role for a fungal gene of interest in disease development. Written in the highly successful Methods in Molecular Biology 

Features

Over the course of evolution, fungi have adapted to occupy specific niches, from symbiotically inhabiting the flora of the intestinal tract of mammals to saprophytic growth on leaf litter resting on the forest floor. In Plant Fungal Pathogens: Methods and Protocols, expert researchers in the field detail many of the methods which are now commonly used to study fungal plant pathogens. These include...

Contents


Fields of interest

Plant Sciences; Plant Pathology

Target groups

Research

Type of publication

Contributed volume

Usually dispatched within 3 to 5 business days


$189.00
ISBN 978-3-642-22745-5

Progress in Botany Vol. 73

With one volume each year, this series keeps scientists and advanced students informed of the latest developments and results in all areas of the plant sciences. The present volume includes reviews on genetics, cell biology, physiology, comparative morphology, systematics, ecology, and vegetation science.

Features

Contents


Fields of interest

Plant Sciences

Target groups

Research

Type of publication

Contributed volume

Usually dispatched within 3 to 5 business days


$159.00
ISBN 978-1-61779-500-8
Protein NMR Techniques

The field of protein NMR spectroscopy has rapidly expanded into new areas of biochemistry, molecular biology and cell biology research that were impossible to study as recently as ten years ago. This third edition of Protein NMR Techniques, expands upon the previous editions with current, detailed authoritative but down-to-earth descriptions of new methodologies. These include techniques for NMR sample preparation, solution and solid state NMR methodologies and data processing. 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, Protein NMR Techniques, Third Edition, seeks to aid scientists in understanding the latest innovations in the field of protein NMR.

Features
The field of protein NMR spectroscopy has rapidly expanded into new areas of biochemistry, molecular biology and cell biology research that were impossible to study as recently as ten years ago. This third edition of Protein NMR Techniques, expands upon the previous editions with current, detailed authoritative but down-to-earth descriptions of new methodologies. These include techniques for NMR [...]
The Effects of Noise on Aquatic Life

The Second International Conference on the Effects of Noise on Aquatic Life will take place in Ireland August 15-20, 2010. The main emphasis of the conference will be on defining the current state of knowledge. However, we will also assess progress in the three years since the First conference. The Second conference will place strong emphasis on recent research results, the sharing of ideas, discussion of experimental approaches, and analysis of regulatory issues.

Features

Contents

Fields of interest
Neurobiology; Ecology; Otorhinolaryngology; Freshwater & Marine Ecology

Target groups
Research

Type of publication
Proceedings

Usually dispatched within 3 to 5 business days

Wildlife Behavior and Conservation

Wildlife Conservation and Behavior focuses on conservation, behavior, and ecology of wildlife. In this text, wildlife is defined as animals and plants, including domesticated and wild forms. For instance, domestic forms of dogs and pigs have crossed the line recently between domesticated and wild forms. The first chapters focus on traditional behavior as it relates to psychology. In later chapters, [...]

Fields of interest
Animal Ecology; Nature Conservation; Behavioural Sciences; Environmental Management; Fish & Wildlife Biology & Management

Target groups
Research

Type of publication
Contributed volume

Usually dispatched within 3 to 5 business days

2012. XXI, 173 p. 39 illus. Hardcover

$189.00

Wörterbuch der Ökologie


Contents
Vorwort zur 5. Auflage.- Hinweise zum Gebrauch.- Alphabetische Lexikalischer Hauptteil.- Ausgewählte Literatur.- Quellen für Abbildungen.- Quellen für Tabellen.- Englisch-Deutsches Register.

Fields of interest
Ecology; Applied Ecology; Animal Ecology; Plant Ecology; Environment (general); Earth Sciences (general)

Target groups
Upper undergraduate

Type of publication
German textbook

Usually dispatched within 3 to 5 business days

2012. 372 S. 53 Abb. Softcover

$39.95
ISBN 978-3-8274-2561-4
mTOR

Methods and Protocols

Since its discovery, the mammalian target of rapamycin (mTOR) has been shown to regulate many critical molecular processes in eukaryotes such as metabolism, growth, survival, aging, synaptic plasticity, memory, and immunity. In mTOR: Methods and Protocols expert researchers in the field detail many of the methods which are now commonly used to study mTOR. These include methods and techniques used for the study of the mTOR pathway and potential therapeutic applications of mTOR inhibitors such as, immunosuppressive and anticancer agents. 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, mTOR: Methods and Protocols seeks to aid scientists in the further study of this crucially important molecule ranging from the analysis of [...] Features

Since its discovery, the mammalian target of rapamycin (mTOR) has been shown to regulate many critical molecular processes in eukaryotes such as metabolism, growth, survival, aging, synaptic plasticity, memory, and immunity. In mTOR: Methods and Protocols expert researchers in the field detail many of the methods which are now commonly used to study mTOR. These include methods and techniques used [...] Contents

Mammalian Target of Rapamycin: A Signaling Kinase for every Aspect of Cellular Life.- Biochemical and Pharmacological Inhibition of mTOR by Rapamycin and an ATP-Competitive mTOR Inhibitor.- Evaluation of the Nutrient-Sensing mTOR Pathway.- mTOR Activity Under Hypoxia.- Isolation of the mTOR Complexes by Affinity Purification.- An in vitro Assay for the Kinase Activity of mTOR Complex 2.- Overexpression or Downregulation of mTOR in Mammalian Cells.- Detection of Cytoplasmic and Nuclear Functions of mTOR by Fractionation.- Evaluation of Rapamycin-Induced Cell Death.- Evaluation of mTOR/Regulated [...]

Fields of interest

Cell Biology

Target groups

Professional/practitioner

Type of publication

Contributed volume

Usually dispatched within 3 to 5 business days

2012. XII, 464 p. 98 illus., 29 in color. (Methods in Molecular Biology, Vol. 821) Hardcover

$159.00


Dynamical Symmetries for Nanostructures

Implicit Symmetries in Single-Electron Transport Through Real and Artificial Molecules

Group theoretical concepts elucidate fundamental physical phenomena, including excitation spectra of quantum systems and complex geometrical structures such as molecules and crystals. These concepts are extensively covered in numerous textbooks. The aim of the present monograph is to illuminate more subtle aspects featuring group theory for quantum mechanics, that is, the concept of dynamical symmetry. Dynamical symmetry groups complement the conventional groups: their elements induce transitions between states belonging to different representations of the symmetry group of the Hamiltonian. Dynamical symmetry appears as a hidden symmetry in the hydrogen atom and quantum rotator problem, but its main role is manifested in nano and meso systems. Such systems include atomic clusters, large molecules, quantum dots attached to metallic electrodes, etc. They are expected to be the building blocks of future quantum electronic devices and information transmitting algorithms. Elucidation of the electronic [...] Features

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1 Introduction.- 2 Hidden and Dynamical Symmetries of Atoms and Molecules.- 3 Nanostructures as Artificial Atoms and Molecules.- 4 Dynamical Symmetries in the Kondo Effect.- 5 Dynamical Symmetries in Molecular Electronics.- 6 Dynamical Symmetries and Spectroscopy of Quantum Dots.- 7 Dynamical Symmetries and Non-Equilibrium Electron Transport. 8 Tunneling Through Moving Nanoobjects.- 9 Mathematical Instrumentation.- 10 Conclusions and Prospects.- Index.- References.

Fields of interest

Nanotechnology; Quantum Physics; Materials Science (general); Mathematical Methods in Physics; Condensed Matter Physics

Target groups

Research

Type of publication

Monograph

Usually dispatched within 3 to 5 business days

2012. XIII, 351 p. 129 illus. Hardcover
Dynamics of Soft Matter

Neutron Applications

Dynamics of Soft Matter: Neutron Applications provides an overview of neutron scattering techniques that measure temporal and spatial correlations simultaneously, at the microscopic and/or mesoscopic scale. These techniques offer answers to new questions arising at the interface of physics, chemistry, and biology. Knowledge of the dynamics at these levels is crucial to understanding the soft matter field, which includes colloids, polymers, membranes, biological macromolecules, foams, emulsions towards biological & biomimetic systems, and phenomena involving wetting, friction, adhesion, or microfluidics. Emphasizing the complementarities of scattering techniques with other spectroscopic ones, this volume also highlights the potential gain in combining techniques such as rheology, NMR, light scattering, dielectric spectroscopy, as well as synchrotron radiation experiments. Key areas covered include polymer science, biological materials, complex fluids and surface science.

Features
Dynamics of Soft Matter: Neutron Applications provides an overview of neutron scattering techniques that measure temporal and spatial correlations simultaneously, at the microscopic and mesoscopic scale. Emphasizing the complementarities of scattering techniques with other spectroscopic ones, this volume also highlights the potential gain in combining techniques such as rheology, NMR, light scattering, dielectric spectroscopy, as well as synchrotron radiation experiments. Key areas covered include polymer science, biological materials, complex fluids and surface science.

Contents
Experimental Techniques for the Study of Dynamics in Soft Materials - Computational Tools to Understand Inelastic and Quasistatic Neutron Scattering Data - Basic Modes of Motion in Polymers - Complex Polymers - Solid Polymer Electrolytes - Future Perspectives: Moving to Longer Length and Time Scales, from Polymers to Biological Macromolecules - Structure and Dynamics of Biological Systems: Integration of Neutron Scattering with Computer Simulations - Protein Dynamics and Function - Biomolecules and Hydration Water Dynamics - Lipid Membranes - Application of Time-resolved SANS to [...]
**An Invitation to Morse Theory**

This self-contained treatment of Morse theory focuses on applications and is intended for a graduate course on differential or algebraic topology. The book is divided into three conceptually distinct parts. The first part contains the foundations of Morse theory. The second part consists of applications of Morse theory over the reals, while the last part describes the basics and some applications of complex Morse theory, a.k.a. Picard-Lefschetz theory. This is the first textbook to include topics such as Morse-Smale flows, Floer homology, min-max theory, moment maps and equivariant cohomology, and complex Morse theory. The exposition is enhanced with examples, problems, and illustrations, and will be of interest to graduate students as well as researchers. The reader is expected to have some familiarity with cohomology theory and with the differential and integral calculus on smooth manifolds. Some features of the second edition include added applications, such as Morse theory and the curvature of complex manifolds.

**Features**

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**Contents**

- Preface
- Notations and Conventions
- 1: Morse Functions
- 2: The Topology of Morse Functions
- 3: Applications
- 4: Morse-Smale Flows and Whitney Stratifications
- 5: Basics of Complex Morse Theory
- 6: Exercises and Solutions
- References
- Index

**Fields of interest**

Global Analysis and Analysis on Manifolds; Differential Geometry; Manifolds and Cell Complexes (incl. Diff. Topology)

**Target groups**

Graduate

**Type of publication**

Graduate/advanced undergraduate textbook

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

$74.95
ISBN 978-1-4614-1104-8

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**Combinatorial Set Theory**

With a Gentle Introduction to Forcing

This book provides a self-contained introduction to modern set theory and also opens up some more advanced areas of current research in this field. The first part offers an overview of classical set theory wherein the focus lies on the axiom of choice and Ramsey theory. In the second part, the sophisticated technique of forcing, originally developed by Paul Cohen, is explained in great detail. With this technique, one can show that certain statements, like the continuum hypothesis, are neither provable nor disprovable from the axioms of set theory. In the last part, some topics of classical set theory are revisited and further developed in the light of forcing. The notes at the end of each chapter put the results in a historical context, and the numerous related results and the extensive list of references lead the reader to the frontier of research. This book will appeal to all mathematicians interested in the foundations of mathematics, but will be of particular use to graduates in this field.

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- The Axioms of Zermelo-Fraenkel Set Theory
- Cardinal Relations in ZF only
- The Axiom of Choice
- How to Make Two Balls from One
- Models of Set Theory with Atoms
- Twelve Cardinals and their Relations
- The Shattering Number Revisited
- Happy Families and their Relatives
- Coa: A Dual Form of Ramsey’s Theorem
- The Idea of Forcing
- Martin’s Axiom
- The Notion of Forcing
- Models of Finite Fragments of Set Theory
- Proving Unprovability
- Models in which AC Fails
- Combining Forcing Notions
- Models in which p = c
- Properties of Forcing

**Fields of interest**

Mathematical Logic and Foundations

**Target groups**

Research

**Type of publication**

Monograph

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

2012, XVI, 453 p. 15 illus. (Springer Monographs in Mathematics) Hardcover

$124.00

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**Duration and Bandwidth Limiting**

Prolate Functions, Sampling, and Applications

Increasingly important in the field of communications, the study of time and band limiting is crucial for the modeling and analysis of multiband signals. This concise but comprehensive monograph is the first to be devoted specifically to this subdiscipline, providing a thorough investigation of its theory and applications. Through cutting-edge numerical methods, it develops the tools for applications not only to communications engineering, but also to optical engineering, geosciences, planetary sciences, and biomedicine. With broad coverage and a careful balance between rigor and readability, Duration and Bandwidth Limiting is a particularly original and valuable resource both for mathematicians interested in the field and for professional engineers with an interest in theory. While its main target audience is practicing scientists, the book may also serve as useful supplemental reading material for mathematically-based graduate courses in communications and signal processing.

**Features**

Channel modeling and analysis of multiband signals are becoming increasingly important in the field of communications, and the study of time and band limiting is a crucial component of these processes. This concise but comprehensive monograph is the first to be devoted specifically to this study, providing a thorough investigation of its theory and applications. Via state-of-the-art numerical methods, it is particularly

**Contents**

- Preface
- Chapter 1: The Bell Labs Theory
- Chapter 2: Numerical Aspects of Time- and Bandlimiting
- Chapter 3: Thomson’s Multitaper Method and Applications to Channel Modeling
- Chapter 4: Time- and Bandlimiting of Multiband Signals
- Chapter 5: Sampling of Bandlimited and Multiband Signals
- Chapter 6: Time-localized Sampling Approximations
- Appendix: Notation and Mathematical Prerequisites
- References
- Index

**Fields of interest**

Fourier Analysis, Communications Engineering, Networks, Abstract Harmonic Analysis, Applications of Mathematics

**Target groups**

Graduate

**Type of publication**

Monograph

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


$99.00
ISBN 978-0-8176-8306-1
Einstein and the Changing Worldviews of Physics

This volume reviews conceptual conflicts at the foundations of physics now and in the past century. The focus is on the conditions and consequences of Einstein's pathbreaking achievements that sealed the decline of the classical notions of space, time, radiation, and matter, and resulted in the theory of relativity. Particular attention is paid to the implications of conceptual conflicts for scientific views of the world at large, thus providing the basis for a comparison of the demise of the mechanical worldview at the turn of the 20th century with the challenges presented by cosmology at the turn of the 21st century. Throughout the work, Einstein's contributions are not seen in isolation but instead set into the wider intellectual context of dealing with the problem of gravitation in the twilight of classical physics; the investigation of the historical development is carried out with a number of epistemological questions in mind, concerning, in particular, the transformation process of knowledge. […]

Features
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Contents

Fields of interest
History of Mathematics; Classical and Quantum Gravitation; Relativity Theory; Astronomy, Astrophysics and Cosmology; Mathematical Physics; History and Philosophical Foundations of Physics

Type of publication
Monograph

Usually dispatched within 3 to 5 business days

2012. XII, 153 S. (Mathematik Kompakt) Softcover

$29.95
ISBN 978-3-0346-0501-4

Excursions in the History of Mathematics

This book comprises five parts. The first three contain ten historical essays on important topics: number theory, calculus/analysis, and proof, respectively. Part four deals with several historically oriented courses, and Part five provides biographies of five mathematicians—Descartes, Euler, Gauss, Hilbert, and Weierstrass—who played major roles in the historical events described in the first four parts of the work. Excursions in the History of Mathematics was written with several goals in mind: to arouse mathematics teachers’ interest in the history of their subject; to encourage mathematics teachers with at least some knowledge of the history of mathematics to offer courses with a strong historical component; and to provide an historical perspective on a number of basic topics taught in mathematics courses.

Features
This book comprises five parts. The first three contain ten historical essays on important topics: number theory, calculus/analysis, and proof, respectively. Part four deals with several historically oriented courses, and Part five provides biographies of five mathematicians who played major roles in the historical events described in the first four parts of the work. Each of the first three […]

Contents

Fields of interest
History of Mathematics; Mathematics Education; Number Theory; Analysis; Mathematical Logic and Foundations; Mathematics (general)

Target groups
Upper undergraduate

Type of publication
Graduate/advanced undergraduate textbook

Usually dispatched within 3 to 5 business days

2012. XXI, 347 p. 36 illus. Hardcover

$74.95
Foundations of Mathematical Analysis

Mathematical analysis is fundamental to the undergraduate curriculum not only because it is the stepping stone for the study of advanced analysis, but also because of its applications to other branches of mathematics, physics, and engineering at both the undergraduate and graduate levels. This self-contained textbook consists of eleven chapters, which are further divided into sections and subsections. Each section includes a careful selection of special topics covered that will serve to illustrate the scope and power of various methods in real analysis. The exposition is developed with thorough explanations, motivating examples, exercises, and illustrations conveying geometric intuition in a pleasant and informal style to help readers grasp difficult concepts. Foundations of Mathematical Analysis is intended for undergraduate students and beginning graduate students interested in a fundamental introduction to the subject. It may be used in the classroom or as a self-study guide without any required [...] 

Global Differential Geometry

This volume contains a collection of well-written surveys provided by experts in Global Differential Geometry to give an overview over recent developments in Riemannian Geometry, Geometric Analysis and Symplectic Geometry. The papers are written for graduate students and researchers with a general interest in geometry, who want to get acquainted with the current trends in these central fields of modern mathematics. 

Features

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Contents


Fields of interest

Differential Geometry

Target groups

Graduate 

Type of publication

Proceedings

Usually dispatched within 3 to 5 business days


$149.00 

ISBN 978-3-642-22841-4

Handbook of Optimization in Complex Networks

Communication and Social Networks

Complex Social Networks is a newly emerging (hot) topic with applications in a variety of domains, such as communication networks, engineering networks, social networks, and biological networks. In the last decade, there has been an explosive growth of research on complex real-world networks, a theme that is becoming pervasive in many disciplines, ranging from mathematics and computer science to the social and biological sciences. Optimization of complex communication networks requires a deep understanding of the interplay between the dynamics of the physical network and the information dynamics within the network. Although there are a few books addressing social networks or complex networks, none of them has specially focused on the optimization perspective of studying these networks. This book provides the basic theory of complex networks with several new mathematical approaches and optimization techniques to design and analyze complex networks. A wide range of applications and [...] 

Features

This second volume of the "Handbook Optimization in Complex Networks" presents the most recent research and developments in the application of optimization techniques to the study of complex communication and social networks. This book present several optimization models and their application to a variety of network settings including: online social networks, wireless communication networks, as well as [...] 

Contents


Fields of interest

Optimization; Computer Communication Networks; Communications Engineering, Networks 

Target groups

Graduate 

Type of publication

Contributed volume 

Usually dispatched within 3 to 5 business days


$179.00 


Global Differential Geometry

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Contents


Fields of interest

Differential Geometry

Target groups

Graduate 

Type of publication

Proceedings

Usually dispatched within 3 to 5 business days


$149.00 

ISBN 978-3-642-22841-4
Introduction to Modeling Biological Cellular Control Systems

This textbook contains the essential knowledge in modeling, simulation, analysis, and applications in dealing with biological cellular control systems. In particular, the book shows how to use the law of mass balance and the law of mass action to derive an enzyme kinetic model - the Michaelis-Menten function or the Hill function, how to use a current-voltage relation, Nernst potential equilibrium equation, and Hodgkin and Huxley's models to model an ionic channel or pump, and how to use the law of mass balance to integrate these enzyme or channel models into a complete feedback control system. The book also illustrates how to use data to estimate parameters in a model, how to use MATLAB to solve a model numerically, how to do computer simulations, and how to provide model predictions. Furthermore, the book demonstrates how to conduct a stability and sensitivity analysis on a model.

Features

This textbook contains the essential knowledge in modeling, simulation, analysis, and applications in dealing with biological cellular control systems. In particular, the book shows how to use the law of mass balance and the law of mass action to derive an enzyme kinetic model - the Michaelis-Menten function or the Hill function, how to use a current-voltage relation, Nernst potential equilibrium equation, and [...]
Modern Optimization Techniques with Applications in Electric Power Systems

This book presents the application of some AI related optimization techniques in the operation and control of electric power systems. With practical applications and examples the use of functional analysis, simulated annealing, Tabu-search, Genetic algorithms and fuzzy systems for the optimization of power systems is discussed in detail. Preliminary mathematical concepts are presented before moving to more advanced material. Researchers and graduate students will benefit from this book. Engineers working in utility companies, operations and control, and resource management will also find this book useful.

Features
This book presents the application of some AI related modern optimization techniques in the operation and control of electric power systems. With practical applications and examples the use of functional analysis, simulated annealing, Tabu-search, Genetic algorithms and fuzzy systems for the optimization of power systems is discussed in detail. Preliminary mathematical concepts are presented before moving [...]

Contents
Chapter 1 Introduction.
- Chapter 2 Mathematical Optimization Techniques.
- Chapter 3 Economic Operation of Electric Power Systems.
- Chapter 4 Economic Dispatches (ED) and Unit Commitment Problem (UCP): Formulation and Solution Algorithms.
- Chapter 5 Optimal Power Flow (OPF).
- Chapter 6 Long Term Operation of Hydroelectric Power Systems.
- Chapter 7 Electric Power Quality Problem.

Fields of interest
Operator Theory; Computational Science and Engineering; Operations Research; Mathematical Programming; Optimization

Target groups
Graduate

Type of publication
Monograph

Usually dispatched within 3 to 5 business days


$124.00
ISBN 978-1-4614-1751-4

Nonlinear Partial Differential Equations

The book covers several topics of current interest in the field of nonlinear partial differential equations and their applications to the physics of continuous media and particle interactions. It treats the quasistochastic equation, integral diffusions, periodic Lorentz gas, Boltzmann equation, and critical dispersive nonlinear Schrödinger and wave equations. Several powerful methods from recent top research articles.

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Contents
Foreword. 1 The De Giorgi Method for Nonlocal Fluid Dynamics. 2 Recent Results on the Periodic Lorentz Gas. 3 The Boltzmann Equation in Bounded Domains. 4 The Concentration-Compactness/Brittleness Method for Critical Dispersive and Wave Equations. Partial Differential Equations; Mathematical Physics

Target groups
Graduate

Type of publication
Graduate/advanced undergraduate textbook

Due: December 31, 2011

2012. VIII, 150 p. 33 illus., 10 in color. (Advanced Courses in Mathematics - CRM Barcelona) Softcover

$34.95
ISBN 978-3-0348-0190-4

Number Theory, Analysis and Geometry

In Memory of Serge Lang

Serge Lang was an iconic figure in mathematics, both for his own important work and for the indelible impact he left on the field of mathematics, on his students, and on his colleagues. Over the course of his career, Lang traversed a tremendous amount of mathematical ground. As he moved from subject to subject, he found analogies that led to important questions in such areas as number theory, arithmetic geometry, and the theory of negatively curved spaces. Lang’s conjectures will keep many mathematicians occupied far into the future. In the spirit of Lang’s vast contribution to mathematics, this memorial volume contains articles by prominent mathematicians in a variety of areas of the field, namely Number Theory, Analysis, and Geometry, representing Lang’s own breadth of interest and impact. A special introduction by John Tate includes a brief and fascinating account of the Serge Lang’s life. This volume’s group of 6 editors are also highly prominent mathematicians and were close to Serge Lang.[...]

Features
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Contents
-Preface.-Introduction (Tate).-Publications by Serge Lang.-Raynaud’s Group-Scheme and Reduction of Convergents (Abramovich).-The Modular Degree, Congruence Primes, and Multiplicity One (Agashe, Ribet, Stein).-Le théorème de Siegel-Shidlovsky revisté (Bertrand).-Some Aspects of Harmonic Analysis on SO(2,1)/SO(2,1)/SO(2) (Brenner, Sinton).-Differential Characters on Curves (Buium).-Weyl Group Multiple Dirichlet Series of Type A_2 (Chinta, Gunnells).-Remarks on the Geometry of the Diffomorphism Group of the Circle (Constantin, Kolev).-Harmonic Representatives For[...]

Fields of interest
Number Theory; Analysis; Geometry

Target groups
Research

Type of publication
Contributed volume

Usually dispatched within 3 to 5 business days

2012. XX, 704 p. 6 illus. Hardcover

$219.00
Numerical Analysis

W. Gautschi, Purdue University, West Lafayette, IN, USA

**Operator Inequalities of Ostrowski and Trapezoidal Type**

Inequalities of Ostrowski and Trapezoidal Type for Functions of Selfadjoint Operators on Hilbert Spaces presents recent results concerning Ostrowski and Trapezoidal type inequalities for continuous functions of bounded selfadjoint operators on complex Hilbert spaces. The first chapter recalls some fundamental facts concerning bounded selfadjoint operators on complex Hilbert spaces. The generalized Schwarz's inequality for positive selfadjoint operators as well as some results for the spectrum of this class of operators are presented. The author also introduces and explores the fundamental results for polynomials in a linear operator, continuous functions of selfadjoint operators that will play a central role throughout the book. The following chapter is devoted to the Ostrowski's type inequalities, which provide sharp error estimates in approximating the value of a function by its integral mean and can be used to obtain a priori error bounds for different quadrature rules in approximating the[...]

**Perspectives in Analysis, Geometry, and Topology**

On the Occasion of the 60th Birthday of Oleg Viro

The contributions in this volume—dedicated to the work and mathematical interests of Oleg Viro on the occasion of his 60th birthday—are invited papers from the Marcus Wallenberg symposium and focus on research topics that bridge the gap among analysis, geometry, and topology. The encounters among these three fields are widespread and often provide impetus for major breakthroughs in applications. Topics covered include new developments in low-dimensional topology related to invariants of links and three- and four-dimensional manifolds and the recent advances made in algebraic, complex, symplectic, and tropical geometry. This collection is intended for graduate students and researchers in analysis, geometry, and topology, especially those whose area of study applies to two or more of these fields.

**Fields of interest**

Geometry; Global Analysis and Analysis on Manifolds; Topology; Analysis

**Target groups**

Research

**Type of publication**

Contributed volume

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


$124.00

Probability with Statistical Applications

This second edition of Probability with Statistical Applications offers a practical introduction to probability for undergraduates at all levels with different backgrounds and views towards applications. Calculus is a prerequisite for understanding the basic concepts; however, the book is written with a sensitivity to students’ common difficulties with calculus that does not obscure the thorough treatment of the probability content. The first six chapters of this text neatly and concisely cover the material traditionally required by most undergraduate programs for a first course in probability. The comprehensive text includes a multitude of new examples and exercises, and careful revisions throughout. Particular attention is given to the expansion of the last three chapters of the book with the addition of two entirely new chapters on “Finding and Comparing Estimators” and “Multiple Linear Regression.” The classroom-tested material presented in this second edition textbook forms the basis for a second[-].

Features
- This book is well-written and the presentation is clear and concise. The text is intended for a one-semester course for undergraduates, but it can also serve as a basis for a high-school course. The level of the book is very elementary and in most of the chapters of the book only basic calculus is required. . . . No measure theory is required. . . . No measure theory is required. In the first edition textbook forms the basis for a second[-].

Contents

Fields of interest
Probability Theory and Stochastic Processes; Statistical Theory and Methods

Target groups
Research

Type of publication
Proceedings

Usually dispatched within 3 to 5 business days

2012. XI, 347 p. 28 illus. Hardcover
$124.00

Representation Theory, Complex Analysis, and Integral Geometry

This book is an outgrowth of the special term “Harmonic Analysis, Representation Theory, and Integral Geometry,” held at the Max Planck Institute for Mathematics and the Hausdorff Research Institute for Mathematics in Bonn during the summer of 2007. The contributions in the volume provide a window into a variety of subjects related to reductive groups: real and complex analysis on homogeneous spaces, arithmetic aspects of moment geometry, geometry of flag varieties, restriction theory of representations, modern aspects of special functions, multiple Dirichlet series, and unfolding identities in the theory of automorphic forms. Throughout the work, great emphasis was placed on making the articles accessible to interested newcomers to these fields and graduate students. Representation Theory, Complex Analysis, and Integral Geometry aims to stimulate future research in these areas.

Features
- This book is an outgrowth of the special term “Harmonic Analysis, Representation Theory, and Integral Geometry,” held at the Max Planck Institute for Mathematics and the Hausdorff Research Institute for Mathematics in Bonn during the summer of 2007. The contributions in the volume provide a window into a variety of subjects related to reductive groups: real and complex analysis on homogeneous spaces, arithmetic aspects of moment geometry, geometry of flag varieties, restriction theory of representations, modern aspects of special functions, multiple Dirichlet series, and unfolding identities in the theory of automorphic forms.

Contents

Fields of interest
Group Theory and Generalizations; Topological Groups, Lie Groups; Analysis; Differential Geometry; Algebra; Number Theory

Target groups
Research

Type of publication
Contributed volume

Usually dispatched within 3 to 5 business days

2012. X, 275 p. 23 illus. Hardcover
$124.00
Representations of Finite Groups: Local Cohomology and Support

The seminar focuses on a recent solution, by the authors, of a long-standing problem concerning the stable module category of a finite group, based on which Jon Carlson introduced support varieties for modules. This has made it possible to apply methods of algebraic geometry to obtain representation-theoretic information. Their work has inspired the development of analogous theories in various contexts, notably modules over commutative complete intersection rings and over cocommutative Hopf algebras. One of the threads in this development has been the classification of [...]
Singularities in Elliptic Boundary Value Problems and Elasticity and Their Connection with Failure Initiation

This introductory and self-contained book gathers as much explicit mathematical results on the linear-elastic and heat-conduction solutions in the neighborhood of singular points in two-dimensional domains, and singular edges and vertices in three-dimensional domains. These are presented in an engineering terminology for practical usage. The author treats the mathematical formulations from an engineering viewpoint and presents high-order finite-element methods for the computation of singular solutions in isotropic and anisotropic materials, and multi-material interfaces. The proper interpretation of the results in engineering practice is advocated, so that the computed data can be correlated to experimental observations. The book is divided into fourteen chapters, each containing several sections. Most of it (the first nine Chapters) addresses two-dimensional domains, whereas singular points exist. The solution in a vicinity of these points admits an asymptotic expansion composed of [...]

Features
This introductory and self-contained book gathers as much explicit mathematical results on the linear-elastic and heat-conduction solutions in the neighborhood of singular points in two-dimensional domains, and singular edges and vertices in three-dimensional domains. These are presented in an engineering terminology for practical usage. The author treats the mathematical formulations from an [...]

Contents

Fields of Interest
Computational Mathematics and Numerical Analysis; Theoretical and Applied Mechanics; Applied Mathematics / Computational Methods of Engineering

Target groups
Research

Type of publication
Monograph

Usually dispatched within 3 to 5 business days


$124.00
Spectra of Graphs

This book gives an elementary treatment of the basic material about graph spectra, both for ordinary, and Laplace and Seidel spectra. The text progresses systematically, by covering standard topics before presenting some new material on trees, strongly regular graphs, two-graphs, association schemes, p-ranks of configurations and similar topics. Exercises at the end of each chapter provide practice and vary from easy yet interesting applications of the treated theory, to little excursions into related topics. Tables, references at the end of the book, an author and subject index enrich the text. Spectra of Graphs is written for researchers, teachers and graduate students interested in graph spectra. The reader is assumed to be familiar with basic linear algebra and eigenvalues, although some more advanced topics in linear algebra, like the Perron-Frobenius theorem and eigenvalue interlacing are included.

Features
This book provides an elementary treatment of the basic material about graph spectra, both for ordinary, and Laplace and Seidel spectra. It covers standard topics such as bounds on the sizes of cliques and cocliques, chromatic number and Shannon capacity, the connection between randomness and the ‘eigenvalue gap’, and applications. It continues with a presentation of some new material on trees, strongly …

Contents

Fields of interest
Algebraic Geometry; Group Theory and Generalizations

Target groups
Graduate

Type of publication
Monograph

Usually dispatched within 3 to 5 business days

2012, XIII, 250 p. 24 illus. (Universitext) Hardcover
$59.95

Subgame Consistent Economic Optimization

An Advanced Cooperative Dynamic Game Analysis

Various imperfections in existing market systems prevent the free market from serving as a truly efficient allocation mechanism, but optimization of economic activities provides an effective remedial measure. Cooperative optimization claims that socially optimal and individually rational solutions to decision problems involving strategic action over time exist. To ensure that cooperation will last throughout the agreement period, however, the stringent condition of subgame consistency is required. This textbook presents a study of subgame consistent economic optimization, developing game-theoretic optimization techniques to establish the foundation for an effective policy menu to tackle the suboptimal behavior that the conventional market mechanism fails to resolve.

Features
The prevalence of imperfect structures, externalities, and imperfect information in existing market systems prevents the market from serving as an efficient mechanism for resource allocation. In the presence of such failures, optimization of economic activities provides an effective remedial measure. Cooperative optimization suggests the possibility of socially optimal and individually rational solutions to …

Contents

Fields of interest
Game Theory, Economics, Social and Behavioral Sciences; Game Theory / Mathematical Methods; Optimization, Applications of Mathematics

Target groups
Graduate

Type of publication
Graduate/advanced undergraduate textbook

Usually dispatched within 3 to 5 business days

2012, XVI, 395 p. 2 illus. (Static & Dynamic Game Theory: Foundations & Applications) Hardcover
$74.95

Medicine

F. Senninger, Sucy-en-Brie, France

Abord clinique des troubles du sommeil

L’ouvrage décrit l’abord clinique et thérapeutique de l’insomnie ce qui intéresse les laboratoires d’hypnotiques, de tranquillisants, d’antidépresseurs, de phytothérapie, d’homéopathie. Il décrit aussi les hypersonnies ce qui intéresse les mêmes laboratoires ainsi que ceux qui produisent les stimulants cérébraux. Il aborde les troubles de la vigilance avec les apnées du sommeil.

Features
Qu’ils soient évoqués spontanément par le patient ou recherchés par le médecin, les troubles du sommeil sont très répandus. Il s’agit parfois d’un symptôme de mal-être, mais aussi souvent d’une maladie à part entière comme le syndrome d’apnées du sommeil, à titre d’exemple.C’est pourquoi la médecine du sommeil est une discipline transversale proche de la médecine interne. En effet, pendant le […]

Fields of interest
Medicine (general); General Practice / Family Medicine

Target groups
Professional/practitioner

Type of publication
Monograph

Due: mars 15, 2012

2012. 116 p. 20 ill. (Abord clinique) Softcover
$29.95
Achtsamkeit und Wahrnehmung in Gesundheitsfachberufen


Features
Arzneimittel-Atlas 2011

Der Arzneimittelverbrauch in der GKV


Features

Fields of interest
Public Health

Type of publication
Monograph

Due: Januar 9, 2012


Autoimmunerkrankungen in der Neurologie

M. Maurer, Bad Mergentheim; M. Stangel, Hannover (Ed.)

Diagnostik und Therapie


Fields of interest
Neurology; Internal Medicine

Type of publication
Professional/practitioner

Due: Januar 5, 2012


Basic Electrocardiology

Cardiac Electrophysiology, ECG Systems and Mathematical Modeling

New edition of the classic complete reference book for cardiologists and trainee cardiologists on the theory and practice of electrocardiography, one of the key modalities used for evaluating cardiology patients and deciding on appropriate management strategies.

Fields of interest
Cardiology; Medicine (general)

Type of publication
Professional book

Due: Januar 9, 2012


$79.95

Usualy dispatched within 3 to 5 business days
Bedside Procedures in the ICU

This handbook is a guide to best practice in interventions commonly encountered in the ICU. It is clinically orientated providing step-by-step explanations and illustrations of most invasive procedures, check lists to make sure the indication is right, check lists to ensure appropriate assessment once the procedure has been carried out. The information is easily accessible providing practical advice and essential background for every member of the multi-disciplinary team caring for critically ill patients. It will serve the senior consultant who has not performed a procedure for some time as well as the junior doctor in need of an aide memoire.

Features
At often critical times, ICU staff require immediate access to information regarding the management of patients in terms of procedures, drugs or any other aspect of treatment. Written by experts in the field of ICU, Bedside Procedures in the ICU facilitates rapid acquiring of clinical knowledge in a concise and didactic format. Focusing on the most commonly performed procedures in the Intensive Care Unit, [...] Contents


Fields of interest
Intensive / Critical Care Medicine; Emergency Medicine

Target groups
Professional/practitioner

Type of publication
Handbook

Due: February 28, 2012

2012. XII, 210 p. 89 illus., 66 in color. Softcover

$69.95

Biomaterials for Surgical Operation

Biomaterials for Surgical Operation offers a review of the latest advances made in developing bioabsorbable devices for surgical operations which include surgical adhesives (sealants), barriers for the prevention of tissue adhesion, polymers for fractured bone fixation, growth factors for the promotion of wound healing, and sutures. Over the years, many descriptions of biomaterials have appeared in academic journals and books, but most of them have been devoted to limited clinical areas. This is in marked contrast with this volume which covers a wide range of bioabsorbable devices used in surgery from a practical point of view. The currently applied polymeric devices are critical in surgery, but all involve serious problems due to their poor performance. For instance, fibrin glue, the most widely used surgical sealant, can produce only a weak gel with low adhesive strength to tissues, accentuating the limited effectiveness of current treatment options. Likewise, the currently available barrier[...]

Features
Biomaterials for Surgical Operation offers a review of the latest advances made in developing bioabsorbable devices for surgical operations which include surgical adhesives (sealants), barriers for the prevention of tissue adhesion, polymers for fractured bone fixation, growth factors for the promotion of wound healing, and sutures. Over the years, many descriptions of biomaterials have appeared in [...] Contents

Introduction.- Biological Events Associated with Surgical Operation.- Bioabsorbable Polymers.- Sealants (Adhesives) against Bleeding and Other Types of Leakage.- Barriers to Prevent Tissue Adhesion.- Devices for Bone Fixation.- Growth Factors for Promoting Wound Healing.- Sutures for Wound Closure.- Conclusions.

Fields of interest
Surgery; Biomaterials; Cell Biology; Biotechnology

Target groups
Professional/practitioner

Type of publication
Monograph

Usually dispatched within 3 to 5 business days

2012. IX, 211 p. 137 illus. Hardcover

$189.00

Bisphosphonates and Osteonecrosis of the Jaw: A Multidisciplinary Approach

During the early 19th century, it was discovered that adding yellow (now called white) phosphorous to matchstick heads made it easier to ignite matches. The phosphorous vapors were breathed in by workers and combined with other chemicals in the body to produce a potent nitrogen-containing bisphosphonate. Today’s oral nitrogen-containing bisphosphonates and intravenous nitrogen-containing bisphosphonates circulate around the body the same way as the phosphorous vapors, and are absorbed into bone and ingested by osteoclasts. When this unique binding process of bisphosphonates to bone occurs, osteoclasts are poisoned, and this reduces or eliminates bone turnover. Alveolar bone in the mandible and maxilla turns over more rapidly than in long bones, so the jaws are a better target for bisphosphonate toxicity. It wasn’t until 2003 that today’s intravenous and oral nitrogen-containing bisphosphonate medications were implicated as major risk factors in the development of exposed necrotic bone of the jaws.[...]

Features
Bisphosphonates are commonly prescribed to inhibit bone loss in patients with osteoporosis, as well as osteopenia, cancer, and Paget’s disease of the bone. Recently, scientific literature has addressed a possible relationship between bisphosphonates and osteonecrosis of the jaw (ONJ). It is important to note that though the risks for developing ONJ are much higher for cancer patients on intravenous [...] Contents


Fields of interest
Oral and Maxillofacial Surgery; Dentistry; Hematology; General Practice / Family Medicine; Pharmacy; Imaging / Radiology

Target groups
Professional/practitioner

Type of publication
Contributed volume

Due: December 31, 2011

2012. XIII, 181 p. 98 illus., 76 in color. Hardcover

$139.00
Cardiac Arrhythmias and Mapping Techniques

New edition of the classic complete reference book for cardiologists and trainee cardiologists on the theory and practice of electrocardiography, one of the key modalities used for evaluating cardiology patients and deciding on appropriate management strategies.

Features
New edition of the classic complete reference book for cardiologists and trainee cardiologists on the theory and practice of electrocardiography, one of the key modalities used for evaluating cardiology patients and deciding on appropriate management strategies.

Fields of interest
Cardiology

Professional/practitioner

Cardiac Imaging in Electrophysiology

Cardiac arrhythmias are a major cause of death (7 million cases annually worldwide; 400,000 in the U.S. alone) and disability. Yet, a noninvasive imaging modality to identify patients at risk, provide accurate diagnosis and guide therapy is not yet available in clinical practice. Nevertheless, there are various applications of electrophysiological imaging in humans from ECG/CT reconstructions, MRI to tissue Doppler investigations that provide supplementary diagnostic data to the cardiologist. EP laboratories are experiencing an increase in volume, for both diagnostic and interventional electrophysiology studies, including mapping, ablation, and pacemaker implants. The equipment requirements for these procedures are stringent, include positioning capabilities, and dose management. This book is designed to review all of the current imaging methodologies that assist in diagnosis within the electrophysiology department.

Features
Major technological, basic and clinical research breakthroughs have led to impressive changes in both diagnostic and therapeutic capabilities for the management of cardiac rhythm disorders. Diagnosis has been enriched by sophisticated electrocardiographic recording systems and automatic analysis techniques, by the development of 3D electro-anatomical mapping systems, advances in novel implantable devices, ...
Chirurgische Proktologie


Features

Das Arbeitsfeld des proktologisch tätigen Arztes umfasst eine Vielfalt von Erkrankungen und eine noch viel größere Zahl konservativer und operativer Therapieverfahren. Das ganze Spektrum ist in diesem Buch fundiert und detailliert dargestellt. Ein Schwerpunkt liegt auf den operativen Behandlungsmöglichkeiten, auch komplexe oder spezielle Verfahren sind beschrieben und durch insgesamt über 400 farbige […]

Coronary Artery Disease

New Approaches without Traditional Revascularization

Coronary Artery Disease is directed towards individuals with an interest in the clinical treatment of patients with unrevascularizable angiina. It explores a variety of treatment options in the setting of a sound scientific background and provide guidance and predictions for future direction in this rapidly developing field. It fulfills an unmet need and is greeted with significant enthusiasm by the practicing internal medicine, family practice and cardiovascular clinicians. It also provides a reliable reference for clinical and basic researchers interested in this topic, as well as affected patients and their families.

Features

While the majority of patients with symptomatic coronary artery disease (CAD) achieve acceptable angiina relief through medical therapy, coronary artery bypass grafting and percutaneous coronary intervention, a growing number are not candidates for these procedures. Standard procedures are largely palliative, and symptom recurrence is relatively common, while the increase in obesity and type 2 diabetes may […]

Contents

Epidemiology of Cardiovascular Disease and Refractory Angina.- Basic Science Concepts.- Natural History in Humans.- Therapeutic Goals in Patients with Refractory Angina.- Medical Therapy for Chronic Refractory Angina.- External Counterpulsation.- Transmyocardial Laser Revascularization.- Invasive and Device Management of Refractory Angina.- Cardiac Transplantation for Ischemic Heart Disease.- Alternative Therapies for Chronic Refractory Coronary Artery Disease.- Nonspecific Placebo Effects.- Prognostic Implication of Depression in Ischemic Syndromes

Fields of interest

Cardiology

Features

While the majority of patients with symptomatic coronary artery disease (CAD) achieve acceptable angiina relief through medical therapy, coronary artery bypass grafting and percutaneous coronary intervention, a growing number are not candidates for these procedures. Standard procedures are largely palliative, and symptom recurrence is relatively common, while the increase in obesity and type 2 diabetes may […]

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Das Pilates-Lehrbuch

Matten- und Geräteübungen für Prävention und Rehabilitation


Fields of interest

Physiotherapy; Sports Medicine; Rehabilitation

Features

Das Pilates-Buch für Profis: Hintergrundinfos und umfassendes Praxisswissen zum Einsatz des Pilates-Konzepts in Prävention und Therapie. Zu den Grundlagen gehören u.a.die „Pilates-Prinzipien“ (Breathing, Centering, Flow, Precision, Concentration, Control, Coordination). Im umfangreichen Praxis-Teil werden alle Techniken und Übungen (Matten- und Gerätetraining) mit Fotosequenzen zum […]

Contents


Fields of interest

Physiotherapy; Sports Medicine; Rehabilitation

Features
Dermatoethics

Contemporary Ethics and Professionalism in Dermatology

There has been a sea-change in dermatology in the last three decades. Managed care, electronic records and communication, cosmetic dermatology, direct-to-consumer advertising, core competencies, and conflicts of interest were either nascent concepts or not even on the horizon as recently as the mid-1980s. The public, accrediting organizations, and physicians themselves recognize the need for training resources in dermatology ethics and professionalism. There is a need to address these topics in a format that will stimulate dialogue and reflection.

Features

There has been a sea-change in dermatology in the last three decades. Electronic communication, social networking, healthcare reform, the changing reimbursement scene, consumerism and the business of medicine, cosmetic dermatology and medical spas, and advances in genetic technology, all give rise to new ethical concerns. These developments combined with the frailties of human nature, to which physicians are [...]

Contents

INTRODUCTORY CHAPTER.- Basics of bioethics and ethical analysis.- Codes of professional ethics.- CLINICAL ETHICS.- Medical errors.- Refusal of treatment.- Care of minors.- Privacy and confidentiality.- Electronic communications and teledermatology-ethics in cyberdermatology.- Unsolicited diagnosis.- Fictional illness and psychodermatology.- RESEARCH AND PUBLICATION ETHICS.- Human subjects research and IRBs in dermatology.- Ethical issues in dermatologic genetics-genetic testing, gene patents.- Publication ethics.- Ethical issues for writers, editors, and reviewers.- SUBSPECIALTY ETHICAL.[...]

Fields of interest

Dermatology; Theory of Medicine / Bioethics; Health Administration

Target groups

Professional/practitioner

Type of publication

Professional book

Usually dispatched within 3 to 5 business days

2012. XVIII, 246 p. 2 illus. in color. Softcover

$49.95

Diagnostic and Prognostic Biomarkers and Therapeutic Targets in Melanoma

This book describes both the technologies used in the discovery of melanoma biomarkers and the clinical application of these biomarkers for diagnosis and staging of disease, determination of prognosis, treatment planning, monitoring of response to therapy, identification of novel therapeutic targets and drug development. A broad range of biomarkers (DNA/chromosomal, mRNA, microRNA, mitochondrial DNA, epigenetic and protein) is outlined. As therapies for melanoma become increasingly more target specific, the identification, validation and use of biomarkers will invariably play a greater role in the management of patients with this disease. Diagnostic and Prognostic Biomarkers and Therapeutic Targets in Melanoma is an essential resource for oncologists, dermatologists, dermatopathologists, general pathologists with an interest in melanoma, and melanoma researchers.

Features

This book describes both the technologies used in the discovery of melanoma biomarkers and the clinical application of these biomarkers for diagnosis and staging of disease, determination of prognosis, treatment planning, monitoring of response to therapy, identification of novel therapeutic targets and drug development. A broad range of biomarkers (DNA/chromosomal, mRNA, microRNA, mitochondrial DNA, [...]

Contents

Introduction to Diagnostic and Prognostic Biomarkers and Therapeutic Targets in Melanoma.- Diagnostic and Prognostic Biomarkers in Melanoma: Current State of Play.- Molecular Pathogenesis of Melanoma: Established and Novel Pathways.- Staging of Melanoma.- Clinical and Histopathological Parameters in Melanoma.- Genetic/Epigenetic Biomarkers: Distinction of Melanoma from Other Melanocytic Neoplasms.- mRNA Biomarkers in Melanoma.- Epigenetic Biomarkers in Melanoma.- microRNA Biomarkers in Melanoma.- MicroRNAs as Biomarkers and Therapeutic Targets in Melanoma.- Mitochondrial DNA Biomarkers[...]

Fields of interest

Pathology; Oncology; Dermatology

Target groups

Professional/practitioner

Type of publication

Contributed volume

Usually dispatched within 3 to 5 business days

2012. XIV, 322 p. 29 illus., 24 in color. (Current Clinical Pathology) Hardcover

$219.00
ISBN 978-1-60761-432-6

Diagnostic et décision dans le cancer du sein à un stade précoce

Grâce au dépistage précoce, la taille des cancers du sein est en diminution ce qui permet davantage de traitements conservateurs et moins de traitements complémentaires à l’acte loco-régional. Mais les progrès de l’imagerie amènent de nouvelles questions : quels gestes proposés en cas de lésions infra-cliniques, à quoi sert la classification BIRAD…

La prise en charge des patientes se complexifie et les choix thérapeutiques deviennent de plus en plus ardus. Nous tendons à adapter nos traitements au plus près du profil évolutif de la tumeur de chaque patiente : du curage ganglionnaire au ganglion sentinel, moins de chimiothérapie, irradiations mammaires partielles… Mais comment être certain que nous ne faisons pas courir davantage de risque de rechute aux patientes ? Cet ouvrage reprend les critères de décision validés en 2011 au moment du diagnostic avec la radiologie et aux différentes étapes thérapeutiques sans oublier la dimension psychologique fondamentale de la prise en charge de ces patientes.

Fields of interest

Medicine (general); Oncology; Diagnostic Radiology; Radiotherapy; Surgical Oncology; Psychotherapy

Target groups

Professional/practitioner

Type of publication

Contributed volume

Due: novembre 29, 2011

2012. 108 p. (Oncologie pratique) Softcover

$39.95
Die Anästhesiologie

Allgemeine und spezielle Anästhesiologie, Schmerztherapie und Intensivmedizin


Contents


Fields of interest

Anesthesiology; Intensive / Critical Care Medicine; Pain Medicine

Target groups

Professional/practitioner

Type of publication

Professional book

Due: Januar 16, 2012

Ecohealth Research in Practice

Innovative Applications of an Ecosystem Approach to Health

This book is about doing innovative research to achieve sustainable and equitable change in people’s health and well-being through improved interactions with the environment. It presents experiences from the field of ecosystem approaches to health (or ecohealth research) and some insights and lessons learned. It builds on previous literature, notably Forget (1997), Forget and Lebel (2001), Lebel (2003), and Walther-Toews et al. (2008). Through case-studies and other contributions by researchers supported by Canada’s International Development Research Centre (IDRC), the book presents evidence of real changes in conditions of people, their health, and the ecosystems that support them. These changes were derived from applications of an ecosystem approach to health in developing regions of the world. The book also illustrates the resulting body of applied, participatory, and action research that improved health and environmental management in developing countries and, in many cases, influenced policies. [...] Features

Nearly two decades after the United Nations Conference on Environment and Development (commonly called the Rio Summit), the world is still facing a profound need for development to alleviate poverty and improve human lives through more equitable access and use of resources and healthier environments. Understanding that human health depends on quality ecosystems, researchers are cutting a new path toward a [...] Fields of interest

Medicine (general); Environmental Management; Ecosystems; Development Economics

Target groups

Research

Type of publication

Contributed volume

Usually dispatched within 3 to 5 business days

2012. XXII, 282 p. 21 illus., 2 in color. (Insight and Innovation in International Development, Vol. 1) Hardcover

$139.00

ISBN 978-1-4614-0516-0

Electrocardiology

Comprehensive Clinical ECG

New edition of the classic complete reference book for cardiologists and trainee cardiologists on the theory and practice of electrocardiography, one of the key modalities used for evaluating cardiology patients and deciding on appropriate management strategies.

Features

New edition of the classic complete reference book for cardiologists and trainee cardiologists on the theory and practice of electrocardiography, one of the key modalities used for evaluating cardiology patients and deciding on appropriate management strategies.

Contents


Fields of interest

Cardiology

Target groups

Professional/practitioner

Type of publication

Professional book

Usually dispatched within 3 to 5 business days

2012. XI, 618 p. 401 illus. Softcover

$79.95


2012. XXI, 1758 S. 720 Abb. Hardcover

$240.00

Prepublication price valid until February 29, 2012

$219.00

ISBN 978-3-642-21124-9
**Emergencies in Pediatric Oncology**

Pediatric oncology is a considerably complex discipline requiring frequent need for reference material. Emergencies in Pediatric Oncology meets this objective by serving as a concise, practical resource for the hurried physician. Replete with diagrams and written in a clear, succinct style, this title offers an easy-to-read guide especially useful for residents, fellows, and nurses. Providing an overview of the epidemiology of childhood cancer and the history of its treatment, this title also addresses a range of key problems in the pediatric oncologic setting, covering the most common emergencies and providing short, practical guidelines on how to handle them. Written by authorities from an array of disciplines, this helpful resource provides answers and concrete guidance and is a valuable contribution to the literature in pediatric oncology.

**Features**

Pediatric oncology is a considerably complex discipline requiring frequent need for reference material. Emergencies in Pediatric Oncology meets this objective by serving as a concise, practical resource for the hurried physician. Replete with diagrams and written in a clear, succinct style, this title offers an easy-to-read guide especially useful for residents, fellows, and nurses. Providing an overview of the epidemiology of childhood cancer and the history of its treatment, this title also addresses a range of key problems in the pediatric oncologic setting, covering the most common emergencies and providing short, practical guidelines on how to handle them. Written by authorities from an array of disciplines, this helpful resource provides answers and concrete guidance and is a valuable contribution to the literature in pediatric oncology.

**Contents**

- Introduction Pediatric Oncology.
- Initial Management of New Diagnosis.
- Tumor Lysis Syndrome (TLS).
- Mediastinal Mass and Superior Vena Cava Syndrome.
- Abdominal Masses.
- Spinal Cord Compression (SCP) and Cauda Equina Syndrome (CES).
- Fever and Neutropenia.
- Procedures.
- Blood and Blood Product Transfusions.
- Thromboembolism in Children with Cancer.
- Cerebral Sinovenous Thrombosis in Children with Cancer.
- Central Venous Thrombosis.
- Chemotherapeutic Drugs.
- Supportive Care.
- Abdominal Complications.
- Emergency Radiation Therapy in Pediatric Oncology.

**Fields of interest**

Pediatrics; Oncology

**Target groups**

Professional/practitioner

**Type of publication**

Contributed volume

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

2012. XI, 185 p. 66 illus., 31 in color. Softcover

**$69.95**

ISBN 978-1-4614-1173-4

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**Encyclopedia of Immigrant Health**

There is increasing interest in the scientific literature on immigrant health and its impact on disease transmission, disease prevention, health promotion, well-being on an individual and population level, health policy, and the cost of managing all these issues on an individual, institutional, national, and global level. The need for accurate and up-to-date information is particularly acute due to the increasing numbers of immigrants and refugees worldwide as the result of natural disasters, political turmoil, the growing numbers of immigrants to magnet countries, and the increasing costs of associated health care that are being felt by governments around the world. Format and Scope: The first portion of the Encyclopedia will contain chapters that are approximately 25 to 40 manuscript pages in length. Each overview chapter will include a list of references and suggested readings for cross referencing within the Encyclopedia. Currently, the opening chapters are planned to be: Immigration in the[...]

**Fields of interest**

Medicine (general); Sociology, general; Anthropology; Health Promotion and Disease Prevention

**Target groups**

Research

**Type of publication**

Encyclopedia

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

2012. XXXVI, 1516 p. In 2 volumes, not available separately. Hardcover

**$1,100.00**


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**Endocrine Disruptors and Puberty**

Endocrine disruption represents one of the most controversial environmental issues of our time. Mounting evidence stemming from more than 10 years of experimental, epidemiological and clinical studies has transformed the once generally discounted subject of endocrine disruptors into an issue of tremendous concern not only within the scientific community but among society as a whole. Following initial evidence from basic research, endocrine disruption in humans has now emerged as a major medical challenge. In this respect, puberty, a crucial developmental stage, has been definitively identified as a key window of vulnerability with regard to endocrine disruptors. Written by leading authorities in the field, Endocrine Disruptors and Puberty offers an engaging and comprehensive overview of this fascinating and rapidly growing problem. An indispensable resource for all clinicians and scientists interested in this challenging endocrinologic topic, Endocrine Disruptors and Puberty is a timely[...]

**Features**

Endocrine disruption represents one of the most controversial environmental issues of our time. Mounting evidence stemming from more than 10 years of experimental, epidemiological and clinical studies has transformed the once generally discounted subject of endocrine disruptors into an issue of tremendous concern not only within the scientific community but among society as a whole. Following initial[...]

**Contents**

Introduction to endocrine disruptors and puberty.
- In utero exposure to environmental chemicals.
- Lessons from maternal cigarette smoking and its effects on gonad development and puberty.
- Reproductive Neuroendocrine Targets of Developmental Exposure to Endocrine Disruptors.
- Endocrine disruptors and puberty disorders from mice to men (and women).
- Thyroid hormone regulation of mammalian reproductive development and the potential impact of endocrine disrupting chemicals.
- Developmental exposure to endocrine disruptors and ovarian function.
- Developmental exposure to environmental[...]

**Fields of interest**

Endocrinology; Oncology; Pharmacology / Toxicology; Cell Biology; Internal Medicine

**Target groups**

Professional/practitioner

**Type of publication**

Contributed volume

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

2012. XVII, 378 p. 18 illus., 11 in color. (Contemporary Endocrinology) Hardcover

**$219.00**

ISBN 978-1-60761-560-6
Essentials of Neurosurgical Anesthesia & Critical Care

Strategies for Prevention, Early Detection, and Successful Management of Perioperative Complications

This handbook is aimed at first-line health care providers involved in the perioperative care of adult and pediatric neurosurgical patients. It is unique in its systematic focus on how to deal with common and important clinical challenges encountered in day-to-day practice in the OR, the PACU, and the ICU and is designed as a problem-solving tool for all members of the perioperative medicine team: trainees and faculty in anesthesiology, neurosurgery, and critical care; nurses; nurse anesthetists; and physician’s assistants. • Encompasses clinical continuum from neurosurgical pre-op to critical care – plus anesthesia in neuroradiology• Adult and pediatric care• Structured algorithmic approach supports clinical decision-making• Succinct presentation of clinically relevant basic science• End-of-chapter summaries, with suggestions for further reading• Collaborative approach and multidisciplinary nature of perioperative medicine emphasized• Extensive summary tables• Portable and formatted for quick[...]

Features
This handbook is aimed at first-line health care providers involved in the perioperative care of adult and pediatric neurosurgical patients. It is unique in its systematic focus on how to deal with common and important clinical challenges encountered in day-to-day practice in the OR, the PACU, and the ICU and is designed as a problem-solving tool for all members of the perioperative medicine team: trainees[...].

Contents

Fields of interest
Anesthesiology; Intensive / Critical Care Medicine; Neurosurgery; Neurology

Target groups
Professional/practitioner

Type of publication
Professional book

Usually dispatched within 3 to 5 business days

2012, XXX, 913 p. 60 illus., 15 in color. Softcover

$79.95

Essentials of Regional Anesthesia

This is a compact, single-source guide to regional anesthesia. Chapters are authored by regional anesthesiology fellowship directors and fellows to insure maximum practicality and up-to-date coverage. Essentials of Regional Anesthesia covers all anatomical regions as well as the unique considerations in patients with chronic pain, obstetric patients, pediatric patients, and patients treated in the outpatient setting. A common chapter format makes it easy to find information quickly, and extensive illustrations enhance the text. Stay current with Essentials of Regional Anesthesia, and stay ahead with these helpful features:• Ultrasound incorporated into each block• Extremely practical focus• More than 400 Q & A as test knowledge• Authored by regional anesthesiology fellowship directors and fellows• Clinical pearls and guidance on complications• Concise, clinically oriented review of relevant basic science• Common chapter format for ease of use• Well illustrated with 350 figures, nearly 200 in color

Features
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Contents

Fields of interest
Anesthesiology; Pain Medicine; Intensive / Critical Care Medicine; Surgical Orthopedics; Rehabilitation Medicine

Target groups
Professional/practitioner

Type of publication
Professional book

Usually dispatched within 3 to 5 business days

2012, XXI, 816 p. 273 illus., 60 in color. Softcover

$89.95
ISBN 978-1-4614-1012-6

From Justice to Protection

A Proposal for Public Health Bioethics

In most developed countries, the epidemiological disease profile has changed from infectious to degenerative, causing major alterations in epidemiological thinking and public health policies. Less developed nations have to deal with a more complex situation, because social disparities create highly unequal health conditions, the affluent being afflicted by degenerative conditions, whereas the poorer social segments continue to suffer infectious diseases, but also begin to feel the effects of chronic illness. At the turn of the 21st century, equity in health care is not being served, and social justice has lost credibility as a conceptual driving force of public health policies. Rampant injustice confirms that theories, reality and suggested practices of just social orders are flawed, leaving the needy without help or hope in a world of flagrant ethical inadequacy. And yet, mainstream bioethics loses meaning and relevance as it clings to the principle of justice and hails such concepts as global[...]
Gestational Trophoblastic Disease
Diagnostic and Molecular Genetic Pathology

In this volume Dr Hui has brought together a comprehensive overview of gestational trophoblastic disease that includes all the currently recognized entities: complete and partial hydatidiform moles, placental site trophoblastic tumor, epithelioid trophoblastic tumor, gestational choriocarcinoma, persistent gestational trophoblastic neoplasia, placental site nodule and exaggerated placental site reaction. Each entity is reviewed in detail, with emphasis on genetic background, clinical presentation, pathologic findings and ancillary studies, differential diagnosis and clinicopathological correlations. Descriptions of the pathology are supported by numerous excellent photomicrographs. Recent advances in our understanding of the genetics of gestational trophoblastic diseases are stressed. Introductory chapters cover the developmental biology of the placenta and the genetic basis of gestational trophoblastic disease, and one chapter is devoted to the molecular diagnosis of gestational trophoblastic disease.

Features
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Contents

Fields of interest
Pathology

Target groups
Professional/practitioner

Type of publication
Contributed volume

Usually dispatched within 3 to 5 business days

2012. XIII. 205 p. 104 illus., 96 in color. (Current Clinical Pathology) Hardcover

$189.00
ISBN 978-1-61779-393-6

Great Health Care
Making It Happen

Great Health Care is enlightening and entertaining. It’s a must read for physicians, patients, health policymakers and administrators, and the interested public.—anyone who wants to understand what great health care is, and how we might build it together. The authors share their stories and motivations and the methods they have used to transform care for their own patients within their own practices and health systems. They thoughtfully explore how we got into this mess, how we can get out of it, and the barriers to making it happen. “It is not only the impact of chronic diseases on our health and economy that draws us to this subject. It is the intriguing and rewarding potential for improving the status quo through redesigning how chronic disease care is provided and paid for.” (Timothy Harrington, MD) “You can’t do things differently until you see things differently.” (Eric Newman, MD)”We start people on the road to recovery, but the 12 weeks of cardiac rehabilitation is just the warm up.”

Features
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Contents

Fields of interest
Neurology; Forensic Medicine

Target groups
Professional/practitioner

Type of publication
Monograph

Due: marzo 28, 2012

2012. X, 240 pagg. Softcover

$69.95

Guida alla valutazione medico-legale del danno neurologico

La diagnosi è un processo indiziario in cui l’anamnesi suggerisce le ipotesi di malattia e gli esami strumentali forniscono le prove. Nel caso della medicina legale lo specialistà realizza la sintesi finale esprimendosi sull’esistenza e il grado di una menomazione. La “Guida alla valutazione medico-legale del danno neurologico” facilita il procedimento che, partendo dall’osservazione del periziando, ne diagnostica la sfera di e ne quantifica l’invalidità. E perciò rivolta al medico-legale e a tutti i professionisti che in ambito pubblico o privato (Responsabilità Civile, Assicurazione Privata, Infortunistica del Lavoro, Invalidità Civile) devono pronunciarsi sull’esistenza e sull’entità di un deficit invalidante.

Features
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Fields of interest
Neurology; Forensic Medicine

Target groups
Professional/practitioner

Type of publication
Monograph

Due: marzo 28, 2012

2012. X, 240 pagg. Softcover

$69.95
Gynécologie du sport

Le sport, la biologie et la médecine ont longtemps considéré l’homme comme unique norme. L’objectif de cet ouvrage est de faire prendre conscience de spécificités féminines lors d’une pratique sportive, qu’elle soit amateur ou de haut niveau. La méconnaissance constatée le plus souvent est à l’origine de nombreux préjugés qui peuvent affecter la qualité des soins. Cet ouvrage s’appuie sur des études récentes afin d’aider à une meilleure prise en charge des pathologies rencontrées par la femme sportive et à une meilleure prévention de ces maladies qui surviennent souvent à des périodes charnières de la vie d’une femme.

Features

Jusqu’à la fin des années 1950, la faiblesse féminine a toujours été démontrée médicalement et justifiée à écarter les femmes des terrains de sport. En remplaçant la vision « unisexe » de la médecine et du sport où l’homme est la norme par un modèle qui respecte les différences, la « gynécologie du sport » s’appuie sur un courant cherchant à constituer une médecine de la spécificité féminine. Pratiqué en [...] 

Contents


Fields of interest

Gynecology; Sports Medicine; Public Health 

Target groups

Professional/practitioner 

Type of publication

Monograph 

Due: mars 28, 2012

HCV Infection and Cryoglobulinemia

The first observation of cold-induced precipitation of serum proteins dates back to 1933, when Wintrobe and Buell first described an unusual case of multiple myeloma in a woman whose serum reversibly precipitated at cold temperatures. In 1947 Lerner and Watson showed cold-precipitable proteins to be gammaglobulins and called them “cryoglobulins” and the corresponding clinical condition “cryoglobulinemia”. Meltzer and Franklin in 1966 provided an accurate description of the typical clinical symptoms associated with cryoglobulinemia, showed that they consisted of two different globulin components and, because of the ignorance on its etiology, called this clinical condition “essential mixed cryoglobulinemia”. For almost 20 years progress has been rather slow in this field, but when at the end of the ’80s it finally became possible to detect the occurrence in the serum of antibodies to the hepatitis C virus (HCV), many groups in Europe and the United States almost simultaneously reported that a high [...] 

Features

In 1947, Lerner and Watson showed that the cold-precipitable proteins in serum were gammaglobulins. These “cryoglobulins” were responsible for the corresponding clinical condition “cryoglobulinemia.” Meltzer and Franklin, in 1966, provided an accurate description of the typical clinical symptoms associated with cryoglobulinemia. Subsequent progress in this field was rather slow until the end of the 1980s. [...] 

Contents

Hepatitis C virus infection and the role of the immune system. - Cryoglobulinemia: immunochemical characterization, serological abnormalities and histopathological changes. - Structural and genetic features, cytokines and chemokines in cryoglobulinemia. - Cellular compartments of HCV infection (and replication) - Mechanism(s) of cryoprecipitation. - Clinical manifestations of cryoglobulinemia. - HCV infection, cryoglobulinemia and non-Hodgkin’s lymphomas - Therapy of cryoglobulinemia. 

Fields of interest

Hepatology; Internal Medicine; Infectious Diseases; Rheumatology; Oncology 

Target groups

Professional/practitioner 

Type of publication

Contributed volume 

Due: January 28, 2012

Haarerkrankungen in der dermatologischen Praxis


Contents


Fields of interest

Dermatology 

Target groups

Professional/practitioner 

Type of publication

Monograph 

Due: Januar 12, 2012

2012, XIV, 176 S. 125 Abb. in Farbe. Hardcover $79.95

ISBN 978-3-642-20527-9
Handbook of Burns Volume 1

Acute Burn Care

This volume covers the entire spectrum of acute burn treatment. Individual chapters deal with basic aspects of different burn mechanisms as well as the acute care of burn patients. Pre-hospital management, critical care and basic concepts of burn surgery related to the acute phase, as well as the use of skin and skin substitutes in early stages of therapy are addressed in this volume. Chapters on supportive therapies such as optimizing nutrition and fluid homeostasis, infection control and treatment, respiratory support and pain management complete the comprehensive approach to the patient in this early stage of treatment, while chapters on epidemiology, prevention and disaster management enable the reader to evaluate the given information in a broader context.

Features

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Contents

List of contributors.
- A history of burn care.
- Epidemiology and prevention of burns throughout the world.
- Prevention of burn injuries.
- Burns associated with wars and disasters.
- Education in burns.
- European practice guidelines for burn care: Minimum level of burn care provision in Europe.
- Pre-hospital, fluid and early management, burn wound evaluation.
- Medical documentation of burn injuries.
- Pathophysiology of burn injury.
- Anaesthesia for patients with acute burn injuries.
- Diagnosis and management of inhalation injury.
- Respiratory management.
- Organ responses and [...] Fields of interest

Surgery; Plastic Surgery; Emergency Medicine; Dermatology

Target groups

Professional/practitioner

Type of publication

Handbook

Due: January 19, 2012

2012. XII, 493 p. 95 illus. in color. Hardcover

$169.00
ISBN 978-3-7091-0347-0

Handbook of Burns Volume 2

Reconstruction and Rehabilitation

This volume compiles the perspectives of a multi-author team examining the entire spectrum of burn reconstruction and long-term treatment. Individual chapters cover basic aspects of wound healing and scarring, and those of plastic surgery relating to tissue rearrangement and the use of flaps, as well as the long-term use of skin and skin substitutes. Furthermore, topics such as rehabilitation and scar management are addressed in detail. This part provides detailed reconstruction guidelines divided by anatomic region (e.g. face, hands,...), as well as aspects of future trends and prospects in burn reconstruction, among which are e.g. allotransplantation and bionics.

Features

This volume compiles the perspectives of a multi-author team examining the entire spectrum of burn reconstruction and long-term treatment. Individual chapters cover basic aspects of wound healing and scarring, and those of plastic surgery relating to tissue rearrangement and the use of flaps, as well as the long-term use of skin and skin substitutes. Furthermore, topics such as rehabilitation and scar [...]

Contents

List of contributors.
- Acute stress disorder and post traumatic stress disorder in individuals suffering from burn injury.
- Long term consequences of burn injuries.
- Skin architecture and function.
- Burn wound healing: Pathophysiology.
- Burn scar treatment.
- Scar assessment.
- The future of wound documentation: three-dimensional, evidence-based, intuitive and thorough.
- Evaluation of mimic function in patients with facial burns by use of the three-dimensional video-analysis.
- Rehabilitation and scar management.
- Exercise.
- Principles of burn reconstruction.
- Tissue expanders [...]

Fields of interest

Surgery; Plastic Surgery; Dermatology; Rehabilitation

Target groups

Professional/practitioner

Type of publication

Handbook

Due: January 19, 2012

2012. XII, 324 p. 175 illus. in color. Hardcover

$169.00
ISBN 978-3-7091-0314-2

Handbook of Endovascular Peripheral Interventions

The Handbook of Endovascular Peripheral Interventions has been written to serve as a comprehensive guide for both the beginner and advanced interventionalist. Covering all aspects of percutaneous peripheral vascular interventions, each chapter of this highly illustrated book provides a brief background, etiology, clinical presentation, imaging, and percutaneous treatment of different vascular conditions. Importantly, Tips of the Trade and How I Do It sections within each chapter make the handbook practical for daily use. These invaluable pearls are provided by contributing chapter authors who are experts in the field. Edited by Dr. Christopher D. Owens (Division of Vascular Surgery) and Dr. Yerem Yeghiazarians (Division of Interventional Cardiology), from the University of California San Francisco School of Medicine, the Handbook of Endovascular Peripheral Interventions is a collaborative effort between cardiologists, vascular surgeons, and radioangiologists. Since each subspecialty brings unique [...] Features

The current treatment of peripheral vascular disease is optimized by a collaborative approach among practitioners with expertise in vascular medicine, vascular imaging, open surgery, and endovascular intervention. The Handbook of Endovascular Peripheral Interventions is a comprehensive guide written by a multi-disciplinary group of expert authors to provide practical, focused chapters on the [...] Contents


Cardiology; Interventional Radiology; Vascular Surgery

Target groups

Professional/practitioner

Type of publication

Handbook

Usually dispatched within 3 to 5 business days

2012. XIX, 449 p. 103 illus., 59 in color. Softcover

$49.95
Handbook of Growth and Growth Monitoring in Health and Disease

Growth is one of the human body’s most intricate processes: each body part or region has its own unique growth patterns. Yet at the individual and population levels, growth patterns are sensitive to adverse conditions, genetic predispositions, and environmental changes. And despite the body’s capacity to compensate for these developmental setbacks, the effects may be far-reaching, even life-long. The Handbook of Growth and Growth Monitoring in Health and Disease brings this significant and complex field together in one comprehensive volume: impact of adverse variables on growth patterns; issues at different stages of prenatal development, childhood, and adolescence; aspects of catch-up growth, endocrine regulation, and sexual maturation; screening and assessment methods; and international perspectives. Tables and diagrams, applications to other areas of health and disease, and summary points help make the information easier to retain. Together, these 140 self-contained chapters in 15 sections...

Features
Growth is one of the human body’s most intricate processes: each body part or region has its own unique growth patterns. Yet at the individual and population levels, growth patterns are sensitive to adverse conditions, genetic predispositions, and environmental changes. And despite the body’s capacity to compensate for these developmental setbacks, the effects may be far-reaching, even life-long. The ...

Contents

Fields of interest
Maternal and Child Health; Clinical Nutrition; Health Promotion and Disease Prevention; Health Informatics

Target groups
Research

Type of publication
Handbook

Usually dispatched within 3 to 5 business days

2012. CLXXI, 3164 p. 953 illus. In 4 volumes, not available separately. Hardcover

$949.00

Heilpflanzen der ayurvedischen und der westlichen Medizin

Eine Gegenüberstellung


Features
Pflanzliche Arzneimittel bilden heute noch das Rückgrat der traditionellen indischen Medizin, der Ayurveda. Hier wurden die verwendeten Pflanzen ursprünglich nach philosophischen Gesichtspunkten und nach der Erfahrung des behandelnden Arztes eingesetzt. Im Zuge der Globalisierung finden viele dieser Arzneimittel ihren Weg auch nach Europa. Mit der zunehmenden Entwicklung synthetischer Arzneimittel ...

Contents
1 Grundlagen der Ayurveda-Medizin: Das Weltbild des Ayurveda: Ayurvedische Physiotherapie (Dravya Gunas).- II Moderne Pharmakologie: Einleitendes Vorwort. - Historische Entwicklung der Arzneimittelforschung in der westlichen Welt.- Pflanzliche Arzneimittel aus naturwissenschaftlicher Sicht.- Inhaltsstoffe von Arznei- ...

Fields of interest
Complementary & Alternative Medicine; Pharmacy; Pharmacology / Toxicology

Target groups
Professional/practitioner

Type of publication
Monograph

Due: December 8, 2011

2012. XVII, 518 S. 355 Abb. in Farbe. Hardcover

$129.00
ISBN 978-3-642-13124-0

Homeopathy in Healthcare

Effectiveness, Appropriateness, Safety, Costs

This volume includes the full Health Technology Assessment (HTA) report on effectiveness, appropriateness, safety and costs of homeopathy in health care. The report was commissioned by the Swiss health authorities to inform decision-making on the further inclusion of homeopathy in the list of services covered by statutory health insurance. Other studies carried out as part of the Swiss Complementary Medicine Evaluation Programme (PEK) caused a massive stir due to their schematic and exclusively quantitative (negative-) outcomes for homeopathy. The present report, in contrast, offers a differentiated evaluation of the practice of homeopathy in health care. It confirms homeopathy as a valuable addition to the conventional medical landscape – a status it has been holding for a long time in practical health care.

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Contents
Background and objectives of the HTA.- Introduction to the specialty of homeopathy – principles and definition. - Homeopathy: research and research problems.- General problems with clinical trials in research. - HTA homeopathy – methods and material. - International utilization of complementary medical approaches.- CAM conditions and use in Switzerland.- Overview of systematic reviews on the clinical efficacy of homeopathy.- Clinical studies on the effectiveness of homeopathy for the indication URTI/A (Upper respiratory tract infections and Allergic Reactions).- Safety of homeopathy ...

Fields of interest
Complementary & Alternative Medicine; Pharmacy

Target groups
Professional/practitioner

Type of publication
Monograph

Due: December 8, 2011

2012. 300 p. 9 illus. in color. Softcover

$49.95
ISBN 978-3-642-20637-5
Hydrocephalus

Selected Papers from the International Workshop in Crete, 2010

The contributions in this volume, presented at the 5th International Hydrocephalus Workshop in May 2010 in Crete, Greece, give the present state-of-the-art in timely diagnosis and treatment of hydrocephalus. The topics covered include advances in management of both pediatric and adult hydrocephalus, identifying shunt responders, clinical experiences in endoscopic third ventriculostomy, clinical trials, pathophysiology, experimental studies, and the new classification for hydrocephalus.

**Features**
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**Contents**
I Importance of the Work of Professor Marmarou.- 5th International Hydrocephalus Workshop, Crete, Greece, May 20-23, 2010: Themes and Highlights.- Modelling of CSF Dynamics – Legacy of Professor Anthony Marmarou.- II Importance of Data, Especially from Randomized Controlled Trials.- Ethical Considerations in Hydrocephalus Research that Involves Children and Adults.- Conservative versus Surgical Management of Idiopathic Normal Pressure Hydrocephalus: a prospective randomized controlled double blind trial; study protocol.- Ten Years of Clinical Experience in the Use of Fixed-Pressure vs.[...]

**Fields of interest**
Neurosurgery

**Target groups**
Professional/practitioner

**Type of publication**
Proceedings

**Due: January 28, 2012**

2012. XII, 198 p. 61 illus., 1 in color. (Acta Neurochirurgica Supplementum, Supplement 113) Hardcover

$249.00
ISBN 978-3-7091-0922-9

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Häufige Hauttumoren in der Praxis


**Features**

**Contents**

**Fields of interest**
Dermatology, General Practice / Family Medicine, Internal Medicine, Pediatrics

**Target groups**
Professional/practitioner

**Type of publication**
Monograph

**Due: January 12, 2012**

2012. X, 136 S. 305 Abb. in Farbe. Hardcover

$69.95
ISBN 978-3-642-24701-9

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Ileoscopy

**Technique, Diagnosis, and Clinical Applications**

This publication is dedicated to all the aspects involved in the endoscopic diagnosis of terminal ileum. The most experienced endoscopists, gastroenterologists and pathologists will focus on and discuss the principles of diagnosis and treatment of the main pathologies involved in this district. The technique of ileoscopy with all the newest advances in endoscopic imaging will be discussed. Another chapter will be dedicated to the possible flow chart of diagnosis of the principles diseases after ileoscopy, from capsule endoscopy to double balloon ileoscopy. A final session will be completely aimed at presenting clinical cases of relevant interest.

**Features**
Ileoscopy has proven to be very useful for the diagnosis of celiac, inflammatory, and infectious diseases of the small intestine. This endoscopic procedure is one of the most technically challenging steps of diagnostic colonoscopy but it also represents the best documented proof of a complete examination. This book covers all aspects of the endoscopic exploration of the terminal ileum, from the technique[...]

**Contents**
Technical aspects of ileoscopy.- The importance of completing colonoscopy and exploration of the cecal region.- What are the correct indications of terminal ileoscopy?- Contribution of new technology to endoscopic imaging.- Clinical results of ileoscopy in the diagnosis of coeliac disease.- Clinical results of ileoscopy in the diagnosis of inflammatory bowel disease.- Ileoscopy in the diagnosis of infectious disease.- Results of ileoscopy in pediatric patients.- The role of histology.- Radiological diagnosis of small bowel diseases.- Capsule endoscopy: the results of a challenge.- Small[...]

**Fields of interest**
Gastroenterology; Imaging / Radiology; Proctology; Colorectal Surgery

**Target groups**
Professional/practitioner

**Type of publication**
Contributed volume

**Due: January 28, 2012**

2012. XVII, 104 p. 63 illus., 54 in color. Hardcover

$139.00
ISBN 978-88-470-2344-4

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Ileoscopy: Technique, Diagnosis, and Clinical Applications

This publication is dedicated to all the aspects involved in the endoscopic diagnosis of terminal ileum. The most experienced endoscopists, gastroenterologists and pathologists will focus on and discuss the principles of diagnosis and treatment of the main pathologies involved in this district. The technique of ileoscopy with all the newest advances in endoscopic imaging will be discussed. Another chapter will be dedicated to the possible flow chart of diagnosis of the principles diseases after ileoscopy, from capsule endoscopy to double balloon ileoscopy. A final session will be completely aimed at presenting clinical cases of relevant interest.

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**Fields of interest**
Gastroenterology; Imaging / Radiology; Proctology; Colorectal Surgery

**Target groups**
Professional/practitioner

**Type of publication**
Contributed volume

**Due: January 28, 2012**

2012. XVII, 104 p. 63 illus., 54 in color. Hardcover

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**Fields of interest**
Gastroenterology; Imaging / Radiology; Proctology; Colorectal Surgery

**Target groups**
Professional/practitioner

**Type of publication**
Contributed volume

**Due: January 28, 2012**

2012. XVII, 104 p. 63 illus., 54 in color. Hardcover

$139.00
ISBN 978-88-470-2344-4
Infection Control in the Intensive Care Unit

Intensive care is a rapidly changing area of medicine, and after four years from the 2nd edition the volume editors and authors have deemed necessary to update it. In the recent years, in fact, five new randomised controlled trials and five new meta-analyses demonstrate that selective decontamination of the digestive tract (SDD) is an antimicrobial prophylaxis to prevent severe infections of not only lower airways but also of blood. Additionally, SDD has been shown to reduce inflammation including multiple organ failure and mortality. An intriguing observation is the evidence that SDD using parenteral and enteral antimicrobials reduces rather than increases antimicrobial resistance. Moreover, a new chapter on microcirculation had been added. The volume will be an invaluable tool for all those requiring in depth knowledge in the ever expanding field of infection control.

Features
Intensive care is a rapidly changing area of medicine; this third edition of “Infection Control in the Intensive Care Unit” has the same format as the previous one but covers a wider scope of infection prevention, from lower airways to bloodstream. This edition condenses and updates the information of the previous edition, with the addition of new tables and figures, and contains two completely new [...]
Laparoscopic Entry

Traditional Methods, New Insights and Novel Approaches

Laparoscopic Entry: Traditional Methods, New Insights And Novel Approaches discusses traditional methods of laparoscopic surgery, new devices, laparoscopic entry in difficult patients, robotic assisted surgery access, single port entry, gasless access, transvaginal entry and natural orifice surgery. This book illustrates, through the presentation of techniques, methods, photos, images, drawings and pictures, all the possible methods of laparoscopic entry for endoscopic surgeons, either for laparoscopy or for robotics. Laparoscopic Entry: Traditional Methods, New Insights And Novel Approaches describes problems and criticisms of each method and highlights common and rare complications. Written by experts in the field, this book also includes tips and tricks, which can be tailored to each patient, making it a valuable reference tool for gynecologists, urologists, vascular and general surgeons.

Contents


Fields of interest

Gynecology; Urology / Andrology; Surgery; Abdominal Surgery

Target groups

Professional/practitioner

Type of publication

Contributed volume

Due: January 28, 2012

2012, XIII, 308 p. 167 illus., 141 in color. Hardcover

$139.00
ISBN 978-0-85729-979-6

Leukemia and Related Disorders

Integrated Treatment Approaches

From the world renowned Fred Hutchinson Cancer Research Center, this book is written for all physicians who treat patients with acute or chronic leukemias or myelodysplasias. It is designed to answer questions about treatment approaches that commonly arise in day-to-day practice. In keeping with the Center’s groundbreaking research in bone marrow transplantation, the book provides exceptional coverage of the role of allogeneic transplant in treatment. It also addresses the important issues of supportive care and long-term complications of successful treatment. Edited and written by experts at the Fred Hutchinson Cancer Research CenterClinically focused and comprehensive coverage of treatment approaches.-Allogeneic transplant addressed in detail-Separate chapters on supportive care and long-term complications

Features

From the world renowned Fred Hutchinson Cancer Research Center, this book is written for all physicians who treat patients with acute or chronic leukemias or myelodysplasias. It is designed to answer questions about treatment approaches that commonly arise in day-to-day practice. In keeping with the Center’s groundbreaking research in bone marrow transplantation, the book provides exceptional coverage of [...]

Contents


Fields of interest

Hematology; Oncology

Target groups

Professional/practitioner

Type of publication

Contributed volume

Due: December 28, 2011

2012, XIV, 250 p. Softcover

$69.95
ISBN 978-88-470-2402-1

MDCT Protocols

Whole Body and Emergencies

Multidetector-row computed tomography (MDCT) has become a fundamental imaging technique for the study of many anatomical districts in different clinical situations, as it provides a fast, reliable, and accurate simultaneous evaluation of different organs, including parenchyma, hollow viscera, vessels, and bony structures. It has also equipped the radiologist with the ability to explore areas that in the [...]

Contents


Fields of interest

Diagnostic Radiology; Cardiology; Gastroenterology; Emergency Medicine

Target groups

Professional/practitioner

Type of publication

Contributed volume
Materia Medica of New and Old Homeopathic Medicines

David S. Riley’s interest in the history, methodology, and results of homeopathic drug provings came from his study of homopathy at the Hahnemann College of Homeopathy in Albany, California. The 69 drug homeopathic drug provings published here are the result of his investigation of the research methods of homeopathic drug provings that form part of the basis for prescribing in homeopathy. In Dr. Hahnemann’s time the method by which the treatment profiles of homeopathic remedies were determined was called provings, after the original German word Prüfung, which means “test.” Scientific research methods have evolved from the early days of homeopathy and Dr. Riley, in an attempt to improve transparency and reduce bias, has incorporated elements of contemporary research methods such as randomization, blinding, and formal good clinical practice guidelines (GCP) into homeopathic drug provings, while adhering to the general guidelines suggested by Dr. Hahnemann and used by homeopathic practitioners and...

Features

David Riley’s interest in the history, methodology, and results of homeopathic drug provings came from his study of homopathy at the Hahnemann College of Homeopathy in Albany, California. The 69 drug homeopathic drug provings published here are the result of his investigation of the research methods of homeopathic drug provings that forms part of the basis for prescribing in homeopathy. In Dr. ...

Fields of interest

Complementary & Alternative Medicine

Target groups

Professional/practitioner

Type of publication

Monograph

Due: December 28, 2011

2012. 250 p. Softcover

$69.95

ISBN 978-3-642-25291-4

Minimally Invasive Surgery in Orthopedics

G.R. Scuderi, Insall Scott Kelly Institute for Orthopaedics and Sports Medicine, New York, NY, USA; A.J. Tria, Robert Wood Johnson Medical School, New Brunswick, NJ, USA (Eds.)

Minimally Invasive Surgery in Orthopedics: Knee Handbook

Minimally Invasive Surgery in Orthopedics: Knee Handbook contains all of the valuable chapters from Section III (The Knee) and selections from Section IV (Computer Navigation) of Scuderi and Tria’s 2010 hardcover reference. Newly available in an affordable softcover format, this book covers minimally invasive procedures and techniques for the knee as well as computer navigation and robotics. The book is fully illustrated with more than one hundred pictures and clearly written for ease of understanding. Surgeons, residents and fellows alike will find this thorough and focused handbook invaluable.

Features

Minimally Invasive Surgery in Orthopedics: Knee Handbook contains all of the valuable chapters from Section III (The Knee) and selections from Section IV (Computer Navigation) of Scuderi and Tria’s 2010 hardcover reference. Newly available in this convenient and affordable softcover format, this book covers minimally invasive procedures and techniques for the knee as well as computer navigation and...

Contents

MIS unicompartmental arthroplasty: the bone-sparing technique.- Minimally invasive surgery for unicompartmental knee arthroplasty: the intramedullary technique.- The extramedullary tensor technique for unicompartmental knee arthroplasty.- MIS unicompartmental knee arthroplasty with extramedullary technique.- MIS arthroplasty with the UnipSpacer.- MIS total knee arthroplasty with the limited medial parapatellar arthroscopy.- MIS TKA with a subvastus approach.- Mini-midvastus total knee arthroplasty.- Minimally invasive total knee arthroplasty.- Quadriceps-sparing total knee arthroplasty.- Minimally invasive[...]

Fields of interest

Orthopedics; Surgical Orthopedics

Target groups

Professional/practitioner

Type of publication

Contributed volume

Usually dispatched within 3 to 5 business days

2012. VIII, 215 p. 198 illus., 98 in color. Softcover

$79.95


Mitochondrial Dysfunction in Neurodegenerative Disorders

A.K. Reeve, Newcastle University, Newcastle upon Tyne, UK; K.J. Krishnan, Newcastle University, Newcastle upon Tyne, UK; M.R. Duchen, University College London, UK; D.M. Turnbull, Newcastle University, Newcastle upon Tyne, UK (Eds.)

Mitochondrial Dysfunction in Neurodegenerative Disorders

As age related diseases increase in prevalence and impact more significantly on medical resources it is imperative to understand these diseases and the mechanisms behind their progression. New research has stimulated a growing interest in mitochondrial involvement in neurodegenerative disorders such as Parkinson’s disease, Alzheimer’s disease and multiple sclerosis and the mechanisms which lead from mitochondrial dysfunction to neurodegeneration. Mitochondrial Dysfunction in Neurodegenerative Disorders brings together contributions from leaders in the field internationally on the various ways in which mitochondrial dysfunction contributes to the pathogenesis of these diseases, guiding the reader through the basic functions of mitochondria and the mechanisms that lead to their dysfunction, to the consequences of this dysfunction on neuronal function before finishing with the modelling of these disorders and discussion of new potential therapeutic targets. Mitochondrial Dysfunction in[...]

Features

As age related diseases increase in prevalence and impact more significantly on medical resources it is imperative to understand these diseases and the mechanisms behind their progression. New research has stimulated a growing interest in mitochondrial involvement in neurodegenerative disorders such as Parkinson’s disease, Alzheimer’s disease and multiple sclerosis and the mechanisms which lead from[...]

Contents

An Introduction to Mitochondria.- Neurodegeneration in Primary Mitochondrial Disorders.- Mutations in Nuclear Genes that Affect Mitochondrial Function in Parkinson’s Disease.- Common mtDNA Polymorphisms and Neurodegenerative Disorders.- MitDNA Mutations in Brain Ageing and Neurodegeneration.- Mitochondrial Membrane Potential and Dynamics.- Dysfunction of the Ubiquitin/Proteasome System and Mitochondria in Neurodegenerative[...]

Fields of interest

Neurology; Medical Biochemistry; Neurosciences; Internal Medicine

Target groups

Professional/practitioner

Type of publication

Contributed volume

Due: January 28, 2012

2012. XXI, 242 p. 20 illus., 12 in color. Hardcover

$189.00

ISBN 978-0-85729-700-6
Mund-, Kiefer- und Gesichtschirurgie


Features

Contents
I Operationsvoraussetzungen - II Oralchirurgie - III Infektionen - IV Kiefergelenkchirurgie - V Traumatologie - VI Fehlbildungen - VII Tumorchirurgie - VIII Rekonstruktive Chirurgie

Fields of interest
Oral and Maxillofacial Surgery; Traumatic Surgery; Plastic Surgery; Orothinalaryngology; Dentistry

Target groups
Professional/practitioner

Type of publication
Professional book

Due: Januar 12, 2012

2012, XVII, 702 S. 1331 Abb. Hardcover

$379.00

ISBN 978-3-642-17800-9

Prepublication price valid until March 31, 2012

$466.00

Neonatology

A Practical Approach to Neonatal Diseases

This new textbook wants to offer to neonatologists and pediatrics a modern and complete view of the various problems and aspects of neonatology, currently one of the most complex and advanced fields of pediatrics. The first chapters will be dedicated to the epidemiology of neonatal mortality and morbidity and to the conditions responsible for neonatal risk. A section will be devoted to organizational problems of hospitals and home services for efficient modern neonatal and infant care. Particular attention will be paid to neonatal care, medico-legal questions, examination of newborns and current availability of laboratory facilities and instrumentation for identification of perinatal abnormalities. Neonatal nutritional problems will also be examined, outlining current knowledge of the needs of sick and healthy babies. Conditions jeopardizing fetal health such as diabetes, maternal drug abuse and smoking will be discussed. New advances in neonatal pharmacology will be extensively examined. Various[...]

Features
Neonatology is a science in rapid evolution, and updated information is crucial for the correct and successful care of newborns and fetuses suffering from severe disorders, who until a few decades ago had no chance of survival. Written in a clear and easy-to-follow way by the most renowned experts in the field, this new textbook wants to offer to neonatologists and pediatricians a modern and complete [...]

Contents

Fields of interest
Pediatrics; Obstetrics / Perinatology; Maternal and Child Health; Intensive / Critical Care Medicine; Nursing

Target groups
Professional/practitioner

Type of publication
Reference work

Due: December 28, 2011

2012. XXX, 1350 p. 400 illus. Hardcover

$199.00

Operationstechniken in der Fußchirurgie
Eine praktische OP-Anleitung


Features
Die Fußchirurgie hat sich in den letzten Jahren als Spezialgebiet der Orthopädischen Chirurgie etabliert. Die bestehende umfangreiche Literatur geht aber nicht ausreichend auf die praktischen Bedürfnisse des operativen täglichen Facharztes ein. Dieses Buch schließt diese Lücke. Der Autor ist erfahrener orthopädischer Chirurhe und reiner Fußspezialist und beschreibt die wichtigsten und bewährtesten [...]
Physicians’ Pathways to Non-Traditional Careers and Leadership Opportunities

Increasingly, physicians are leveraging their medical training and expertise to pursue careers in non-traditional arenas. Their goals are diverse:

- Explore consulting as a way to improve patient care
- Lay the foundation for a career in academic medicine
- Provide leadership in healthcare
- Strengthen ties between a clinic and the community

Broaden one’s experience as a medical student. As a journalist or writer, open a window onto medicine for non-experts. Some physicians will pursue another degree, while others may not, in anticipation of moving into public service, business, education, law, or organized medicine. Their common ground is the desire to enhance their professional fulfillment. Drs. Urman and Ehrenfeld’s book features individual chapters on the wide array of non-traditional careers for physicians, each one written by an outstanding leader in medicine who him- or herself has successfully forged a unique career path. A final chapter...]

Features

Increasingly, physicians are leveraging their medical training and expertise to pursue careers in non-traditional arenas. Their goals are diverse:

- Explore consulting as a way to improve patient care
- Lay the foundation for a career in academic medicine
- Provide leadership in healthcare
- Strengthen ties between a clinic and the community

Contents


Fields of interest

Medicine (general)

Target groups

Professional/practitioner

Type of publication

Professional book

 Usually dispatched within 3 to 5 business days

$39.95
ISBN 978-1-4614-0550-4
Praktische Rheumatologie


Features
Die Krankheiten des rheumatischen Formenkreises werden immer bedeutsamer. Die Kenntnisse über Molekularbiologie, Immunologie, medikamentös und chirurgische Therapie haben rasant zugenommen. Umfassend und praxisnah präsentiert dieses Buch die Rheumatologie mit all ihren Randgebieten. Im allgemeinen Teil wird u.a. auf die Bausteine des Bindegewebes, Immunologie, Genetik und Epidemiologie eingegangen, gefolgt [...]
**Retinale Gefäßerkrankungen**


**Fields of interest**
Ophthalmology

**Target groups**
Professional/practitioner

**Type of publication**
Contributed volume

**Due:** Januar 5, 2012

2012. XVII, 462 S. 663 Abb. in Farbe. Hardcover

$129.00
ISBN 978-3-642-18020-0

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**Rheumatology of the Lower Limbs in Clinical Practice**

Rheumatology of the Lower Limbs in Clinical Practice is a comprehensive and easy-to-use training tool for practitioners to refine their strategy for clinical investigation and differential diagnosis in regional syndromes of the lower back, hip, knee, foot and ankle. It combines instructive sections, providing anatomical information and various causes of particular symptoms. Case studies recreate the clinical setting by presenting the details of the case and giving an opportunity for the reader to make a diagnosis. The text is lavishly illustrated in full color, with detailed photos of patient examinations, complemented by radiographs and full color line illustrations. The text also benefits from the use of summaries using colored boxing to identify key points in diagnosis and management. Written by two of the biggest and most respected clinicians in the discipline, this book will be essential reading for rheumatologists in practice and training.

**Features**
Rheumatology of the Lower Limbs in Clinical Practice is a comprehensive and easy-to-use training tool for practitioners to refine their strategy for clinical investigation and differential diagnosis in regional syndromes of the lower back, hip, knee, foot and ankle. It combines instructive sections, providing anatomical information and various causes of particular symptoms. Case studies recreate the clinical setting by presenting the details of the case and giving an opportunity for the reader to make a diagnosis. The text is lavishly illustrated in full color, with detailed photos of patient examinations, complemented by radiographs and full color line illustrations. The text also benefits from the use of summaries using colored boxing to identify key points in diagnosis and management. Written by two of the biggest and most respected clinicians in the discipline, this book will be essential reading for rheumatologists in practice and training.

**Fields of interest**
Rheumatology

**Target groups**
Professional/practitioner

**Type of publication**
Monograph

**Due:** January 28, 2012

2012. VIII, 179 p. 100 illus., 66 in color. Softcover

$59.95
ISBN 978-1-4471-2252-4

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**Rheumatology of the Upper Limbs in Clinical Practice**

Rheumatology of the Upper Limbs in Clinical Practice is a comprehensive and easy-to-use training tool for practitioners to refine their strategy for clinical investigation and differential diagnosis in regional syndromes of the shoulder, elbow, forearm, wrist and hand. It combines instructive sections, providing anatomical information and various causes of particular symptoms. Case studies recreate the clinical setting by presenting the details of the case and giving an opportunity for the reader to make a diagnosis. The text is lavishly illustrated in full color, with detailed photos of patient examinations, complemented by radiographs and full color line illustrations. The text also benefits from the use of summaries using colored boxing to identify key points in diagnosis and management. Written by two of the biggest and most respected clinicians in the discipline, this book will be essential reading for rheumatologists in practice and training.

**Features**
Rheumatology of the Upper Limbs in Clinical Practice is a comprehensive and easy-to-use training tool for practitioners to refine their strategy for clinical investigation and differential diagnosis in regional syndromes of the shoulder, elbow, forearm, wrist and hand. It combines instructive sections, providing anatomical information and various causes of particular symptoms. Case studies recreate the clinical setting by presenting the details of the case and giving an opportunity for the reader to make a diagnosis. The text is lavishly illustrated in full color, with detailed photos of patient examinations, complemented by radiographs and full color line illustrations. The text also benefits from the use of summaries using colored boxing to identify key points in diagnosis and management. Written by two of the biggest and most respected clinicians in the discipline, this book will be essential reading for rheumatologists in practice and training.

**Fields of interest**
Rheumatology

**Target groups**
Professional/practitioner

**Type of publication**
Monograph

**Due:** January 28, 2012

2012. VII, 142 p. 78 illus., 67 in color. Softcover

$59.95
ISBN 978-1-4471-2241-8
Santé, égalité, solidarité
Des propositions pour humaniser la santé

Les progrès scientifiques et technologiques parfois mal maîtrisés deviennent pour certains une fin en soi, faisant oublier le sens de l’humain qui devrait prévaloir dans toutes nos actions. De même, l’accroissement constant des dépenses de santé, fait de l’économie de la santé la pièce maîtresse des plans de nos dirigeants. Dans cet ouvrage, plusieurs personnalités éminentes ayant œuvré ou œuvrant à une approche plus humaniste de la santé ont formulé à partir de leurs expériences et de leur vécu – des recommandations susceptibles de faire réfléchir les décideurs de notre pays sur les réformes à entreprendre. Sept grands thèmes alimentent leur réflexion : l’humanisme en médecine, l’éducation et la formation, pour une santé citoyenne, prendre en charge, santé et société, de la naissance à la mort, réformer l’hôpital. Leurs recommandations sont réunies en conclusion de cet ouvrage afin de nourrir la réflexion de tous ceux qui veulent vraiment aider à préserver, et si possible améliorer, la qualité [...]

Features
Les progrès scientifiques et technologiques parfois mal maîtrisés deviennent pour certains une fin en soi, faisant oublier le sens de l’humain qui devrait prévaloir dans toutes nos actions. De même, l’accroissement constant des dépenses de santé, fait de l’économie de la santé la pièce maîtresse des plans de nos dirigeants. L’automatisation, l’informatisation, la robotisation, la restructuration pour [...]

Fields of interest
Medicine (general); Theory of Medicine / Bioethics; Geriatrics / Gerontology; Pain Medicine; Oncology; Health Promotion and Disease Prevention

Target groups
Professional/practitioner

Type of publication
Contributed volume

Duedécembre 29, 2011

2012. 244 p. Softcover

$49.95

Schmerzbehandlung in der Palliativmedizin


Features
Zur Palliativmedizin gehört neben der sozialen, psychologischen und spirituellen Begleitung eine gute Schmerztherapie, die sich nach Art und Intensität der Schmerzen, sowie der unmittelbaren sozialen Umgebung der Patienten richtet. Neben Schmerztherapie und Symptomkontrolle ist die Prophylaxe und Behandlung der Nebenwirkungen wesentlich, um die Lebensqualität zu verbessern. In der dritten Auflage [...]

Contents

Fields of interest
Pain Medicine; Geriatrics / Gerontology; Intensive / Critical Care Medicine; Anesthesiology; Oncology; General Practice / Family Medicine

Target groups
Professional/practitioner

Type of publication
Handbook

Duedezember 19, 2012

2012. XVI, 320 S. 23 Abb. Softcover

$59.95
ISBN 978-3-211-88876-6

Sjögren’s Syndrome
Diagnosis and Therapeutics

Sjögren’s Syndrome: Diagnosis and Therapeutics provides a thorough, multisystemic overview of the clinical manifestations of Sjogren’s Syndrome. It contains chapters pertinent across the range of medical specialties that may encounter Sjögren’s Syndrome cases. Chapters are specialty-specific, for easy reference by the relevant medical specialist.

Features
Sjögren’s Syndrome: Diagnosis and Therapeutics includes a section on prognosis and outcomes of Sjögren’s Syndrome patients and provides an exhaustive therapeutic update, focused on new agents and experimental techniques. The inclusion of diagnostic/therapeutic algorithms illustrates the text with clinical photographs of the main organs involved and helps the reader to make guided diagnostic and therapeutic decisions through decision-based algorithms.

Contents
Epidemiology - Genetics and Proteomics - Immunopathogenesis - Viruses - Etiopathogenic role of B-cells - Oral involvement - Ocular involvement - Ear, nose and throat involvement - Fatigue, fibromyalgia and other general symptoms - Musculoskeletal involvement - Non-vasculitic cutaneous involvement - Vasculitis - Cardiovascular involvement - Pulmonary involvement - Raynaud phenomenon - Gastrointestinal involvement - Autoimmune liver involvement - Pancreatic involvement - Nephro-urological involvement - Central nervous system involvement - Peripheral neuropathy - Autonomic neuropathy - [...]

Fields of interest
Rheumatology; Internal Medicine; General Practice / Family Medicine; Ophthalmology

Target groups
Professional/practitioner

Type of publication
Professional book

Duedezember 28, 2012

2012. XX, 633 p. 94 Illus., 67 in color. Hardcover

$139.00
ISBN 978-0-85729-946-8

Sjögren’s Syndrome
Diagnosis and Therapeutics

Sjögren’s Syndrome: Diagnosis and Therapeutics provides a thorough, multisystemic overview of the clinical manifestations of Sjogren’s Syndrome. It contains chapters pertinent across the range of medical specialties that may encounter Sjögren’s Syndrome cases. Chapters are specialty-specific, for easy reference by the relevant medical specialist.

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Contents
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Fields of interest
Rheumatology; Internal Medicine; General Practice / Family Medicine; Ophthalmology

Target groups
Professional/practitioner

Type of publication
Professional book

Duedezember 28, 2012

2012. XX, 633 p. 94 Illus., 67 in color. Hardcover

$139.00
ISBN 978-0-85729-946-8
**Specialized Aspects of ECG**

New edition of the classic complete reference book for cardiologists and trainee cardiologists on the theory and practice of electrocardiography, one of the key modalities used for evaluating cardiology patients and deciding on appropriate management strategies.

**Features**

New edition of the classic complete reference book for cardiologists and trainee cardiologists on the theory and practice of electrocardiography, one of the key modalities used for evaluating cardiology patients and deciding on appropriate management strategies.

**Contents**


**Fields of interest**

Cardiology

**Target groups**

Professional/practitioner

**Type of publication**

Professional book

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

2012. XII, 828 p. 291 illus. Softcover

$79.95


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**Standards der Tabakentwöhnung**

Konsensus der Österreichischen Gesellschaft für Pneumologie - Update 2010


**Features**


**Contents**


**Fields of interest**

Pneumology/Respiratory System; Health Promotion and Disease Prevention; General Practice / Family Medicine; Rehabilitation

**Target groups**

Professional/practitioner

**Type of publication**

Professional book

**Due: Januar 16, 2012**

2012. X, 199 S. 11 Abb. in Farbe. Softcover

$29.95

ISBN 978-3-7901-0978-6

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**Taktische Medizin**

Notfallmedizin und Einsatzmedizin

Targeted Therapeutics in Melanoma

Melanoma is an increasingly important public health problem. Although the cause of most malignant melanomas – over-exposure to ultraviolet light – is well known, effective treatment has remained challenging. The past several years have been marked by extraordinary developments in melanoma treatment in the arena of targeted therapeutics. This book describes these ground-breaking discoveries and their implications for clinical use. As melanoma biology is increasingly understood, so the development of targeted therapies for this disease is spurred ahead. This book covers both established signal transduction inhibitors and the fascinating emerging realm of molecularly-guided immunotherapies. This benchmark book provides the most up-to-date information on the new breed of melanoma therapies. Composed of the works of major researchers and clinicians, this book offers new insights, novel approaches, and promising data for effective treatment planning. Illuminating the latest advances in the field, it is al...

Features
Melanoma is an increasingly important public health problem. Although the cause of most malignant melanomas – over-exposure to ultraviolet light – is well known, effective treatment has remained challenging. The past several years have been marked by extraordinary developments in melanoma treatment in the arena of targeted therapeutics. This book describes these ground-breaking discoveries and...[

Contents
- Molecular targets and subtypes in melanoma.
- Melanoma genomics.
- Predictive biomarkers as a guide to future therapy selection in melanoma.
- KIT as a therapeutic target for melanoma.
- Targeted inhibition of B-Raf.
- The notch and B-catenin pathways.
- STAT3 and Src signaling in melanoma.
- Targeting the mTOR, PI3K and AKT pathways in melanoma.
- Targeting apoptotic pathways in melanoma.
- Anti-angiogenesis therapy in melanoma.
- Melanoma antigens recognized by T lymphocytes.
- Melanoma vaccines.
- Adoptive cell therapy for the treatment of metastatic melanoma.
- Anti-CTLA-4 mononal antibodies.

Fields of interest
- Oncology
- Cancer Research

Target groups
Research

Type of publication
Contributed volume

Usually dispatched within 3 to 5 business days

2012. XIV, 377 p. 27 illus., 22 in color. (Current Clinical Oncology) Hardcover

$219.00

The Daschner Guide to In-Hospital Antibiotic Therapy

European Standards
Handy – concise – clearThe "always-on-hand" pocket guide to the treatment of infectious diseases.
- The most important antibiotics and antifungals.
- Spectrum – dosage – side-effects.
- Numerous tables sorted by substances, pathogens, indications.
- Administration of antibiotics during pregnancy, renal and hepatic insufficiency, dialysis.
- Including statements on the cost of therapy.
- Numerous tips and troubleshooting guides on topics such as:
- Potential mistakes.
- Therapy failures.
- Perioperative antibiotic prophylaxis.
- Adjusted to European standards:
- Up-to-date substances, authorizations, resistances, and trade names.
The first guide to antibiotic therapy for Europe! All in all, an approach that looks towards the future in which antimicrobial resistance will certainly represent an ever-growing obstacle for the medical class, and for which books like this will undoubtedly represent a precious resource.

Features
Handy – concise – clear The "always-on-hand" pocket guide to the treatment of infectious diseases.
- The most important antibiotics and antifungals.
- Spectrum – dosage – side-effects.
- Numerous tables sorted by substances, pathogens, indications.
- Administration of antibiotics during pregnancy, renal and hepatic insufficiency, dialysis.
- Including statements on the cost...

Contents
- 1 Classification of the Antibiotics.
- 2 Generic and Trade Names – Trade Names and Generics.
- 3 Principles of Antibiotic Therapy.
- 4 The Most Common Errors in Antibiotic Therapy.
- 5 Important Infections and Their Microbiological Diagnosis.
- 6 Cooperation with Microbiologists.
- 7 Resistance of Major Clinical Pathogens.
- 8 The Most Frequent Pathogens – Choice of Antibiotics.
- 9 Antibiotics.
- Antifungals.
- Spectrum – Dosage – Adverse Effects.
- Costs.
- 10 Antibiotic Therapy of the Principal Infections.
- 11 Treatment of the Most Frequent Types of Bacterial Endocarditis.

Fields of interest
- Infectious Diseases,
- Internal Medicine,
- Surgery,
- Gynecology,
- Intensive Care Medicine,
- Otorhinolaryngology

Target groups
Professional/practitioner

Type of publication
Manual

Usually dispatched within 3 to 5 business days

2012. XXVIII, 597 p. 37 illus., 28 in color. Softcover

$79.95
ISBN 978-1-4419-7900-1

The SAGES Manual of Quality, Outcomes and Patient Safety

SAGES represents a worldwide community of surgeons that can bring minimal access surgery, endoscopy and emerging techniques to patients in every country.

Features
The SAGES Manual of Quality, Outcomes and Safety concisely summarizes important concepts to improve patient care at a systems level. While the focus is on advanced laparoscopy and innovative technology, the principles and examples in this book can be useful across disciplines and subspecialties. The volume sheds light on issues and behaviors both pre-op, intra-op and post-op that will decrease adverse...

Contents
PART 1: PATIENT SAFETY IS QUALITY: Defining Quality in Surgery.
- Never Events.
- Creating a Surgical Dashboard for Quality.
- Patient-Centered Outcomes.
- Patient Satisfaction and Quality of Life Assessment.
- Quality, Safety and Electronic Medical Records.
- Leading Change: System Improvement.
- Surgical Timeout and Retained Foreign Bodies.
- Patient Safety in the Operating Room.
- SAGES Laparoscopic Surgery Safety Checklist.
- Faculty Hour: A Model for Interdisciplinary Quality Improvement.
- Creating Effective Communication and Teamwork for Patient Safety.
- Clinical Care Pathways.
- Data Drives...[

Fields of interest
- Medicine (general);
- Surgery;
- Abdominal Surgery

Target groups
Professional/practitioner

Type of publication
Manual

Usually dispatched within 3 to 5 business days

2012. 300 p. 20 illus. in color. Softcover

$39.95
ISBN 978-3-642-18401-7
Ultraschalldiagnostik der Säuglingshüfte

Ein Atlas

Drei Eigenschaften machen die Hüftsonografie beim Säugling zum Verfahren der Wahl. Es gibt keine Strahlenbelastung, die Methode ist nicht invasiv und sie liefert präzise Ergebnisse. Aber die praktische Durchführung der Sonografie und die korrekte Interpretation der Ergebnisse muss erlernt werden.

Dieser Atlas „Ultraschalldiagnostik der Säuglingshüfte“ stellt daher eine praktische Orientierungshilfe dar, die in der täglichen Arbeit der Radiologen auf dem Gebiet der Hüftsonografie unentbehrlich ist.

**Contents**

1. Anatomische Identifizierung - 2
2. Brauchbarkeitsprüfung - 3
3. Kippfehler - 4
4. Abtasttechnik - 5
5. Typeneinteilung - 6
6. Messtechnik - 7
7. Befundentwicklung - 8
8. Varia - 9
9. Stresstest - 10
10. Therapeutische Konsequenzen und Verläufe.

**Features**


**Ultrasound and Carotid Bifurcation Atherosclerosis**

Ultrasound and Carotid Bifurcation Atherosclerosis provides a comprehensive overview of the recent advancements in instrumentation, imaging techniques including the use of contrast enhancement agents, plaque image analysis and its automation, elastography and plaque motion analysis; also, the use of ultrasonic and other biomarkers in the detection of the high risk cardiovascular individual. Finally, it deals with the application of IVUS, TCD and carotid plaque characterization in clinical practice and in stroke risk stratification. Ultrasound and Carotid Bifurcation Atherosclerosis is intended for all those working in the field of atherosclerosis, ultrasound imaging and cardiovascular risk, including the clinician, the vascular ultrasonographer, the epidemiologist, the molecular biologist, the biomedical engineer and the informatics scientist.

**Contents**

1. Principles of Ultrasound - 2
2. Pathophysiology of Carotid Atherosclerosis - 3
3. Vascular Hemodynamics of the Carotid Bifurcation and Its Relation to Arterial Disease - 4
4. Principles of Ultrasonic Imaging and Instrumentation - 5
5. Use of Ultrasonic Imaging with Contrast Agents - 6
6. Nonlinear Ultrasonic Imaging of Carotid Plaque - 7
7. Ultrasonic Imaging of Carotid Plaque - 8
8. Carotid Ultrasound - 9
9. Contrast Ultrasound - 10
10. Molecular Imaging of Carotid Plaque with Targeted Ultrasound Contrast - 11
11. Methodological Considerations of Ultrasound - 12

**Features**

Ultrasound and Carotid Bifurcation Atherosclerosis provides a comprehensive overview of the most recent advancements in instrumentation, imaging techniques including the use of contrast enhancement agents, plaque image analysis and its automation, elastography and plaque motion analysis; also, the use of ultrasonic and other biomarkers in the detection of the high risk cardiovascular individual. Finally, it [..]

R. A. Sofferman, University of Vermont School of Medicine, Burlington, VT, USA; A. T. Ahuja, Prince of Wales Hospital, Shatin, Hong Kong, New Territories (N.T.) (Eds.)

**Ultrasound of the Thyroid and Parathyroid Glands**

This highly illustrated book, complete with comprehensive clinical references and annotated images, will serve as a leading text to educate head and neck surgeons, endocrinologists, and radiologists on the basics and nuances of thyroid and parathyroid ultrasound. It emphasizes the use of ultrasound as an office-based modality by clinicians and radiologists who actively care for this special set of patients. This text uniquely combines the collaboration between a clinician/surgeon and radiologist who share their extensive experience in head and neck ultrasound.

**Contents**

Section 01: History and Basic Concepts - 1
2. History of Clinical Ultrasound - 3
3. Principles of Ultrasound - 4
4. Sonography of the Normal Thyroid - 5
5. Stable and Vulnerable Atherosclerotic Plaques - 6
6. Pathophysiology of Carotid Atherosclerosis - 7
7. Vascular Hemodynamics of the Carotid Bifurcation and Its Relation to Arterial Disease - 8
8. Principles of Ultrasonic Imaging and Instrumentation - 9
9. Use of Ultrasonic Imaging with Contrast Agents - 10
10. Nonlinear Ultrasonic Imaging of Carotid Plaque - 11
12. Application of Ultrasound - 13
13. Methodological Considerations of Ultrasound - 14

**Features**

Ultrasound of the Thyroid and Parathyroid Glands provides a comprehensive overview of the latest developments in instrumentation, imaging techniques including the use of contrast enhancement agents, plaque image analysis and its automation, elastography and plaque motion analysis; also, the use of ultrasonic and other biomarkers in the detection of the high risk cardiovascular individual. Finally, it [..]

E. Kyriacou, Department of Medical Informatics, Faculty of Medicine, University of Cyprus, Nicosia, Cyprus (Eds.)

R.A. Sofferman, University of Vermont School of Medicine, Burlington, VT, USA; A.T. Ahuja, Prince of Wales Hospital, Shatin, Hong Kong, New Territories (N.T.) (Eds.)
Visual Dysfunction in Diabetes

The Science of Patient Impairment and Health Care

An exciting contribution to the field, Visual Dysfunction in Diabetes: The Science of Patient Impairment and Improvement is designed with two overriding objectives: to help readers understand the impact of vision impairment in people living daily with diabetes rather than considering diabetic retinopathy solely as a medical problem, and to explore what we know and don’t know about the ways diabetes affect the eye. With the plethora of new information being generated, there are still a series of fundamental questions that must be addressed if effective treatments for diabetic retinopathy are to be found and applied. Developed by a renowned group of authorities, Visual Dysfunction in Diabetes: The Science of Patient Impairment and Improvement offers responses and context for a range of questions, such as: do metabolic factors beyond glucose contribute to vision-threatening diabetic retinopathy? If so, how do these lead to vision impairment? Is diabetic retinopathy a response to systemic metabolic[...]

Features

An exciting contribution to the field, Visual Dysfunction in Diabetes: The Science of Patient Impairment and Improvement is designed with two overriding objectives: to help readers understand the impact of vision impairment in people living daily with diabetes rather than considering diabetic retinopathy solely as a medical problem, and to explore what we know and don’t know about the ways[...]

Contents

Introduction. - Diabetic Retinopathy – what we know, don’t know, and need to know. - A Patient’s viewpoint. - What patients with diabetes see— and don’t see: subjective and objective visual function changes. - How do I know I have diabetic retinopathy – a clinician’s view?. - Epidemiology & Economics. - Correlation between the presence and severity of diabetic retinopathy in families with diabetes. - Increasing public awareness of the diabetes endemic. - Nutrition and diabetes. - Diabetic retinopathy screening – progress and complications. - Measurements of retinal blood flow, vascular leakage, and[...]

Fields of interest

Ophthalmology: Endocrinology: Neurosciences

Target groups

Professional/practitioner

Type of publication

Contributed volume

Usually dispatched within 3 to 5 business days

2012. XV, 379 p. 72 illus., 51 in color. (Ophthalmology Research) Hardcover

$219.00
ISBN 978-1-60761-149-3
Überleitungsmanagement

Praxisleitfäden für stationäre Gesundheitsanrichten


Features
Für den Patienten die bestmögliche Nachversorgung zu gewährleisten, erfordert strukturierte Abläufe, gebündelte Informationsweitergabe und eine gute Zusammenarbeit intern wie mit externen Partnern. Alltagsstress, fehlende Anleitung und Organisationsstrukturen, ungenügender Informationsaustausch sind oft die Stolpersteine, die eine reibungslose, optimale Überleitung eines Patienten ins Stocken bringen. Das […]

Contents

Fields of interest
Nursing Management / Nursing Research; Social Work; Public Health; Nursing

Target groups
Professional/practitioner

Type of publication
Professional book

Due: Februar 6, 2012

2012, X, 192 S. 19 Abb. Softcover

$49.95
ISBN 978-3-642-20104-3

Pharmacy

J. Reichling, Universität Heidelberg

Arends Volkstümliche Namen der Drogen, Heilkräuter, Arzneimittel und Chemikalien


Features
Der „ARENDS“ - DAS Standardwerk der im Volksmund gebräuchlichen Namen seit Jahrzehnten hat sich der „ARENDS“ bewährt und auch bis heute in seiner Aktualität nichts eingebüßt. Phytopharmaka erfreuen sich bei der Bevölkerung im deutschsprachigen Raum großer Beliebtet. Auch traditionell genutzte Heilpflanzen spielen heute noch eine große Rolle. Doch was ist gemeint, wenn von […]

Contents
Vorwort.- Lexikalischer Teil von A - Z.

Fields of interest
Pharmacy; Pharmacology / Toxicology

Target groups
Professional/practitioner

Type of publication
Reference work

Due: Januar 5, 2012

2012, VI, 416 S. Softcover

$59.95
ISBN 978-3-642-24995-2

Pharmacy

L. Hartmann

Beratungskompetenz Magen und Darm in der Apotheke


Features

Contents

Fields of interest
Pharmacy; Practice Management

Target groups
Professional/practitioner

Type of publication
Monograph

Due: Januar 12, 2012

2012, XII, 217 S. 44 Abb. Softcover

$59.95
ISBN 978-3-642-24626-5
**Philosophy**

M. Murphey

**The Development of Quine's Philosophy**

This book covers W. V. Quine's philosophical career from his early radical empiricism and behaviorism through his development of a series of skeptical doctrines regarding meaning, reference, and science. It shows what problems he tried to solve and what his solutions were. Result has been a series of highly controversial claims that have won him international fame. His work is still a center of controversy and has led to an enormous literature of commentary.

**Contents**

Introduction Chapter I. Logic and Philosophy Chapter II. Semantics and Ontology Chapter III. From Word and Object to The Roots of Reference Chapter IV. Last Revisions Chapter V. Conclusion Appendix Notes

**Fields of interest**

Philosophy (general); History; History of Philosophy; Modern Philosophy

**Target groups**

Research

**Type of publication**

Monograph

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


$189.00


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**Physics**

T. Aranda, Chicago, IL, USA

**3,000 Deep-Sky Objects**

An Annotated Catalogue

This title is a comprehensive set of visual descriptions of deep-sky objects visible from the northern hemisphere. It is a record of the most extensive and systematic visual survey of the sky ever done in modern times. 3,000 deep-sky objects are listed with short descriptions of the visual appearance in the author's powerful binocular telescope. Objects in the book are organized by position for easy identification of unknown targets. Full indexes by catalog numbers and names allow searches for specific objects.

**Features**

The Annotated Catalog of 3,000 Deep-Sky Objects is a record of the most extensive and systematic visual survey of the sky done in modern times. The 3,000 deep-sky objects listed contain short descriptions of what these objects look like in the author’s powerful binocular telescope. Objects in the book are organized by position for easy identification of unknown targets. Full indexes by catalog numbers and names allow searches for specific objects.

**Contents**


**Fields of interest**

Astronomy, Observations and Techniques; Popular Science in Astronomy

**Target groups**

Popular/general

**Type of publication**

Popular science

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

2012. XII, 563 p. 38 illus., 21 in color. (Patrick Moore’s Practical Astronomy Series) Softcover

$44.95


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**Springer Lexikon Kosmetik und Körperpflege**

M. Bährle-Rapp, Wutachtengen-Horheim


**Contents**


**Fields of interest**

Pharmacy; Dermatology

**Target groups**

Professional/practitioner

**Type of publication**

Encyclop(a)edia

**Due: Januar 12, 2012**

2012. VIII, 655 S. 149 Abb., 57 in Farbe. Hardcover

$39.95

ISBN 978-3-642-24687-6
How James Watt Invented the Copier
Forgotten Inventions of Our Great Scientists

Features 25 different scientists and the ideas which may not have made them famous, but made history… Typically, we remember our greatest scientists from one single invention, one new formula or one incredible breakthrough. This narrow perspective does not give justice to the versatility of many scientists who also earned a reputation in other areas of science. James Watt, for instance, is known for inventing the steam engine, yet most people do not know that he also invented the copier. Alexander Graham Bell of course invented the telephone, but only few know that he invented artificial breathing equipment, a prototype of the ‘iron lung’. Edmond Halley, whose name is associated with the comet that visits Earth every 75 years, produced the first mortality tables, used for life insurances. This entertaining book is aimed at anyone who enjoys reading about inventions and discoveries by the most creative minds. Detailed illustrations of the forgotten designs and ideas enrich the work throughout.

Contents
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<th>ISBN</th>
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<tr>
<td>978-94-007-2529-4</td>
<td>Macromolecular Crystallography: Deciphering the Structure, Function and Dynamics of Biological Molecules</td>
<td>M.A. Carrondo, New University of Lisbon, Portugal; P. Spadon, University of Padova, Italy (Eds.)</td>
<td>2012</td>
<td>XIV, 208 p.</td>
<td>$189.00</td>
<td>Hardcover</td>
<td>Usually dispatched within 3 to 5 business days</td>
<td>Springer</td>
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<tr>
<td>978-3-642-24383-7</td>
<td>Macromolecular Crystallography: Deciphering the Structure, Function and Dynamics of Biological Molecules</td>
<td>M.A. Carrondo, New University of Lisbon, Portugal; P. Spadon, University of Padova, Italy (Eds.)</td>
<td>2011</td>
<td>XIV, 194 p.</td>
<td>$89.95</td>
<td>Softcover</td>
<td>Usually dispatched within 3 to 5 business days</td>
<td>Springer</td>
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**Summary:**

This monograph introduces an exact model for a critical spin chain with arbitrary spin S, which includes the Haldane–Shastry model as the special case S=1/2. While spinons in the Haldane-Shastry model obey abelian half-fermi statistics, the spinons in the general model introduced here obey non-abelian statistics. This manifests itself through topological choices for the fractional momentum spacings. The general model is derived by mapping exact models of quantized Hall states onto spin chains. The book begins with pedagogical reviews of all the relevant models including the non-abelian statistics in the Pfaffian Hall state, and is understandable to every student with a graduate course in quantum mechanics.

**Features:**

- Introduction and summary.
- Three models and a ground state: From a Laughlin state to the Haldane–Shastry model.
- From a bosonic Pfaffian state to an S = 1 spin chain.
- Generalization to arbitrary spin S.
- Conclusions and unresolved issues.
- Spherical and angular momentum algebras.
- Tensor decompositions of spin operators.

**Fields of interest:**

Quantum Physics; Solid State Physics; Statistical Physics; Dynamical Systems and Complexity; Mathematical Methods in Physics; Mathematical Physics

**Target groups:**

Research

**Type of publication:**

Monograph

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

2011. XIV, 194 p. 22 illus. (Springer Tracts in Modern Physics, Vol. 244) Hardcover

$159.00

ISBN 978-3-642-24383-7
Optical Interferometry for Biology and Medicine

This book presents the fundamental physics of optical interferometry as applied to biophysical, biological and medical research. Interference is at the core of many types of optical detection and is a powerful probe of cellular and tissue structure in interference microscopy and in optical coherence tomography. It is also the root cause of speckle and other imaging artefacts that limit range and resolution. For biosensor applications, the inherent sensitivity of interferometry enables ultrasensitive detection of molecules in biological samples for medical diagnostics. In this book, emphasis is placed on the physics of light scattering, beginning with the molecular origins of refraction as light propagates through matter, and then treating the stochastic nature of random fields that ultimately dominate optical imaging in cells and tissue. The physics of partial coherence plays a central role in the text, with a focus on coherence detection techniques that allow information to be selectively [...] Features

The volumes in this authoritative series present a multidisciplinary approach to modeling and simulation of flows in the cardiovascular and ventilatory systems, especially multiscale modeling and coupled simulations. The cardiovascular and respiratory systems are tightly coupled, as their primary function is to supply oxygen to and remove carbon dioxide from the body's cells. Because physiological conduits have deformable and reactive walls, macroscopic flow behavior and prediction must be coupled to nano- and microscopic events in a corrector scheme of regulated mechanisms when the vessel lumen caliber varies markedly. Therefore, investigation of flows of blood and air in physiological conduits requires an understanding of the biology, chemistry, and physics of these systems together with the mathematical tools to describe their functioning. Volume 3 is devoted to the set of mediators of the cell surface, especially ion and molecular carriers and catalytic receptors that, once liganded and [...] Features

Contents


Fields of interest

Biophysics and Biological Physics; Biomedical Engineering; Applied Optics, Optoelectronics, Optical Devices; Molecular Medicine

Target groups

Research

Type of publication

Monograph

Usually dispatched within 3 to 5 business days

2012, XII, 354 p. 209 illus., 118 in color. (Bioanalysis, Vol. 1) Hardcover

$169.00


Signaling at the Cell Surface in the Circulatory and Ventilatory Systems

The volumes in this authoritative series present a multidisciplinary approach to modeling and simulation of flows in the cardiovascular and ventilatory systems, especially multiscale modeling and coupled simulations. The cardiovascular and respiratory systems are tightly coupled, as their primary function is to supply oxygen to and remove carbon dioxide from the body's cells. Because physiological conduits have deformable and reactive walls, macroscopic flow behavior and prediction must be coupled to nano- and microscopic events in a corrector scheme of regulated mechanisms when the vessel lumen caliber varies markedly. Therefore, investigation of flows of blood and air in physiological conduits requires an understanding of the biology, chemistry, and physics of these systems together with the mathematical tools to describe their functioning. Volume 3 is devoted to the set of mediators of the cell surface, especially ion and molecular carriers and catalytic receptors that, once liganded and [...] Features

Contents


Fields of interest

Biophysics and Biological Physics; Biomedical Engineering; Mathematical and Computational Biology; Systems Biology; Engineering Fluid Dynamics; Cardiology

Target groups

Research

Type of publication

Monograph

Usually dispatched within 3 to 5 business days


$219.00


Sketching the Moon

An Astronomical Artist’s Guide

For anyone artistically inclined, observing the Moon and attempting to sketch or paint it can easily become a passion. The Moon presents a broad array of tone, texture, and form. Capturing this in a painting or sketch at the eyepiece of a telescope – or even with binoculars – develops observational skills, leaves a record of the observation, and can also be a delightful and rewarding pastime. However, the choice of media available is extensive (acrylic paint, oils, pen, charcoal, etc., and even computer art programs), and there is no existing text that fully explains all lunar sketching and painting techniques in each respective medium. This beautiful and graphically rich book fulfills this requirement. It presents detailed step-by-step instructions, in the form of illustrated tutorials for every major medium employed to represent the Moon. It also provides practical advice on how to sketch outdoors at night (not ideal conditions for an artist!). This is easily the most extensive book on the subject[...]

Features

Soon after you begin studying the sky through your small telescope or binoculars, you will probably be encouraged by others to make sketches of what you see. Sketching is a time-honored tradition in amateur astronomy and dates back to the earliest times, when telescopes were invented. Even though we have lots of new imaging technologies nowadays, including astrophotography, most observers still use [...] Features

Contents

Foreword.- Preface.- Key to Map of Featured Targets.- Basic Sketching: A Place to Begin.- Chapter 1: Sketching Craters.- Chapter 2: Sketching Maria (Seas).- Chapter 3: Sketching Mons (Mountains).- Chapter 4: Sketching Rilles (Lava Channels).- Chapter 5: Sketching Dorsa (Wrinkle Ridges).- Chapter 6: Sketching Crater and Sunlight Rays.- Chapter 7: Sketching Rupes (Scarps).- Chapter 8: Sketching the Phases.- Chapter 9: Sketching Domes.- Chapter 10: Sketching Lunar Eclipses.- Chapter 11: Additional Tutorials and Sketching Gallery.- Chapter 12: General Hints and Tips.- A Final Note from the[...]

Fields of interest

Astronomy, Observations and Techniques; Popular Science in Astronomy; Arts Education; Fine Arts

Target groups

Popular/general

Type of publication

Popular science

Usually dispatched within 3 to 5 business days

2012, XXXI, 233 p. 405 illus., 31 in color. (Patrick Moore's Practical Astronomy Series) Softcover

$39.95

Stardust, Supernovae and the Molecules of Life

Might We All Be Aliens?

Where were the amino acids, the molecules of life, created: perhaps in a lightning storm in the early Earth, or perhaps elsewhere in the cosmos? This book argues that at least some of them must have been produced in the cosmos, and that the fact that the Earthly amino acids have a specific handedness provides an important clue for that explanation. The book discusses several models that purport to explain the handedness, ultimately proposing a new explanation that involves cosmic processing of the amino acids produced in space. The book provides a tour for laypersons that includes a definition of life, the Big Bang, stellar nucleosynthesis, the electromagnetic spectrum, molecules, and supernovae and the particles they produce.

Features
Where were the amino acids, the molecules of life, created: perhaps in a lightning storm in the early Earth, or perhaps elsewhere in the cosmos? This book argues that at least some of them must have been produced in the cosmos, and that the fact that the Earthly amino acids have a specific handedness provides an important clue for that explanation. The book discusses several models that purport to explain the [...]
UV Astronomy 2011

This book is a reprint of the topical issue "UV Astronomy 2011" published by the journal Astrophysics and Space Science. Papers included in that topical issue cover four main topics of UV astronomy: stellar physics and evolution, planets, Milky Way and other galaxies and finally, UV instrumentation with an update on the current status of the main missions and technologies. This builds on the remarkable progress made in the field since the earlier topical issue: "Space Astronomy: the UV window to the Universe" which appeared in 2008.

Features
This book is a reprint of the topical issue "UV Astronomy 2011" published by the journal Astrophysics and Space Science. Papers included in that topical issue cover four main topics of UV astronomy: stellar physics and evolution, planets, Milky Way and other galaxies and finally, UV instrumentation with an update on the current status of the main missions and technologies. This builds on the […]

Contents

Fields of interest
Astronomy, Observations and Techniques; Astrophysics and Astroparticles; Extraterrestrial Physics, Space Sciences

Target groups
Research

Type of publication
Monograph

Usually dispatched within 3 to 5 business days
2012. 343 p. 116 illus. in color. Hardcover

$169.00
ISBN 978-94-007-2572-0

Popular Science

90 anni di "Italie"

In occasione del centoquintaesimo anniversario dell’Unità d’Italia, Bruno Pieroni ricorda le tappe salienti della trasformazione del paese da nazione fascista con veltèità imperiali a paese postindustriale inserito in un contesto globale. Questo prezioso racconto è ricco di squarci da un paese singolare, attraversato in circa un secolo da cambiamenti di ogni sorta.

Features
Questo libro raccoglie gli appunti della vita professionale di Bruno P. Pieroni, decano dei giornalisti medici. L’idea nasce da una chiacchierata con amici in vista del suo 90esimo compleanno, durante la quale una collega, dopo aver ascoltato alcuni episodi della sua lunga attività giornalistica, riguardantespiegazioni e personalità di vario genere - da Gina […]

Contents

Fields of interest
Popular Science, Popular Science in Medicine and Health

Target groups
Popular/general

Type of publication
Monograph

Due: gennaio 9, 2012

2012. VIII, 92 pagg. Softcover

$19.95
ISBN 978-88-470-2540-0

Ab 40 bewirbt man sich anders.
Durchstarten mit Lebenserfahrung - Bewerbungsstrategien, Informationen, Mutmacher - mit Musterdokumenten


Features

Contents

Fields of interest
Popular Science in Psychology, Industrial and organisational psychology; Popular Science

Target groups
Popular/general

Type of publication
Popular science

Due: Januar 19, 2012

2012. 180 S. 6 Abb., 1 in Farbe. Mit online files/update. Softcover

$29.95
ISBN 978-3-642-21804-0
Angewandte Psychologie für das Projektmanagement. Ein Praxisbuch für die erfolgreiche Projektleitung


Features

Contents

Fields of interest
Industrial and organisational psychology; Management/Business for Professionals; Engineering Economics, Organization, Logistics, Marketing; Project Management; Personnel Management

Target groups
Professional/practitioner

Type of publication
Professional book
Encyclopedia of the History of Psychological Theories

This work will survey the entire range of thinking in psychology, from ancient times to the present, encompassing philosophies and theories of mind that pre-date our modern conception of psychology as a science, and extending to the current findings of neuroscience. It will set the theories into their historical context and cross-reference key influences, such as Darwin's on Freud. Fifteen hundred entries will comprise key figures, theoretical concepts, false theories, historical events, and seminal writings. International in scope, this project will involve history of psychology experts from around the world and the coverage of topics will be set in global context. The aim will be to provide a reference work of more depth than discussions that are currently available in textbooks, with the ability to connect to a multitude of relevant topics. This work will provide a picture of psychology as it has emerged into the present time and position it among other related fields such as anthropology.[…]

Features
This work will survey the entire range of thinking in psychology, from ancient times to the present, encompassing philosophies and theories of mind that pre-date our modern conception of psychology as a science, and extending to the current findings of neuroscience. It will set the theories into their historical context and cross-reference key influences, such as Darwin's on Freud. Fifteen hundred entries […]

Fields of interest
History of Psychology; Psychotherapy; Philosophy of Science; Sociology, general

Target groups
Research

Type of publication
Encyclo(a)edia

Usually dispatched within 3 to 5 business days
2012, XXVI, 1228 p. In 2 volumes, not available separately. Hardcover

$679.00
ISBN 978-1-4419-0425-6

Foundations of Chinese Psychology

Confucian Social Relations

Mainstream psychology emanated from European-American and Judeo-Christian philosophical and scientific traditions. The application of this viewpoint, which embeds colonial and imperialist concepts is less relevant to Asian and other indigenous cultures. Although it has been accepted by non-Western scholars in an attempt to emulate Western scientific practice, the mainstream viewpoint is in a process of transformation to accommodate geographically relevant perspectives. In this light, Foundations of Chinese Psychology, bridges the gap between western and eastern traditions and elaborates on theories based on local phenomena, findings, and experiences by research methods that are contextually appropriate. Using a guiding principle of cultural psychology – ‘one mind, many mentalities’, this book advocates the balancing of a global psychology concept without sacrificing that of a specific locality and people. It analyzes the basics of Confucianism and compares them to Western ethical thinking.[…]

Features
Foundations of Chinese PsychologyConfucian Social RelationsKwang-Kuo HwangOriginally, the global exporting of psychology was considered a means of bringing science and modernism to underdeveloped parts of the world. In response, indigenous psychology has emerged as an alternative to the individual-focused theories and therapies of Western cultures, as well as a critique of the idea that […]

Fields of interest
Cross Cultural Psychology; Philosophy of Religion

Target groups
Research

Type of publication
Monograph

Usually dispatched within 3 to 5 business days
2012, XXI, 151 p. Hardcover

$129.00
ISBN 978-1-4614-1438-4

Freud on Interpretation

The Ancient Magical Egyptian and Jewish Traditions

This book presents new insights into Freud’s famous “discovery” of the unconscious and the subsequent development of psychoanalytic theories. The authors explore the original context in which these ideas arose and the central debate about mind as matter or something that transcends matter. In the course of this examination, it is demonstrated that Freud was influenced not only by the 19th century scientific milieu, but also by ancient cultures. While it is known that Freud was an avid collector of ancient artifacts and generally interested in these older cultures, this book systematically investigates their profound effect on his thinking and theorizing. Two major influences, Egyptian mythology and Jewish mysticism are analyzed in terms of similarities to Freud’s emerging ideas about the mind and its diseases. To further this line of investigation, Bakan supplies an illuminating discussion of what it means to interpret. Taken from the viewpoint that interpretation involves an u…

Features
Freud on InterpretationThe Ancient Magical Egyptian and Jewish TraditionsRobert W. Rieber, in collaboration with David Bakan In its early days, some saw psychology as a substitute for religion. Others regarded it as a new religion in its own right. What was less obvious to most observers—and far less obvious today—were the roots of Freud's work in the ancient […]

Contents

Fields of interest
History of Psychology; Philosophy of Science; Clinical Psychology

Target groups
Research

Type of publication
Monograph

Usually dispatched within 3 to 5 business days

$129.00
ISBN 978-1-4614-1438-4
Gli interventi sulla crisi
Una guida pratica

Le persone rimaste coinvolte in un evento traumatico hanno bisogno di professionisti che forniscono loro un sostegno rapido ed efficace. Le situazioni in cui è richiesto questo tipo di aiuto sono molliissime: un incidente, una diagnosi medica negativa, la perdita di una persona cara, un rovescio economico, ma anche le conseguenze di abusi, tentativi di suicidio, disastri naturali, terrorismo. La cosiddetta crisis intervention, cioè il supporto psicologico nei casi di emergenza, può essere praticata da medici, educatori, operatori del pronto intervento oppure volontari nei centri d’ascolto – tutti devono sapere muovere in condizioni di intenso stress emotivo per le vittime. Questa guida pratica fornisce risposte chiare e immediate su come trattare le emergenze più comuni ed espone i sintomi dei diversi traumi, i casi di studio e i protocolli che è necessario adottare. Una risorsa di rapida consultazione sia per gli esperti sia per chi è al principio della propria esperienza sul campo.

Features
Le persone rimaste coinvolte in un evento traumatico hanno bisogno di professionisti che forniscono loro un sostegno rapido ed efficace. Le situazioni in cui è richiesto questo tipo di aiuto sono molliissime: un incidente, una diagnosi medica negativa, la perdita di una persona cara, un rovescio economico, ma anche le conseguenze di abusi, tentativi di suicidio, disastri naturali, terrorismo. La cosiddetta crisis intervention, cioè il supporto psicologico nei casi di emergenza, può essere praticata da medici, educatori, operatori del pronto intervento oppure volontari nei centri d’ascolto – tutti devono sapere muovere in condizioni di intenso stress emotivo per le vittime. Questa guida pratica fornisce risposte chiare e immediate su come trattare le emergenze più comuni ed espone i sintomi dei diversi traumi, i casi di studio e i protocolli che è necessario adottare. Una risorsa di rapida consultazione sia per gli esperti sia per chi è al principio della propria esperienza sul campo.

Fields of interest
Clinical Psychology; Psychotherapy and Counseling; Psychotherapy

Target groups
Professional/practitioner

Type of publication
Monograph

Due: gennaio 2012

2012. XIV, 206 pagg. 23 figg. Softcover

$39.95

La riabilitazione neuropsicologica

Un’analisi basata sul metodo evidence-based medicine

Il volume presenta i lavori di revisione della letteratura relativa alla riabilitazione neuropsicologica effettuati come lavoro preparatorio per la Consensus Conference sulla Riabilitazione neuropsicologica che si è tenuta a Siena nel febbraio del 2010 sotto gli auspici di una serie di associazioni e società scientifiche e professionali. L’approccio usato in modo comune in tutte le revisioni è quello della “evidence-based medicine” che consente di arrivare a delle raccomandazioni sull’efficacia dei diversi trattamenti riabilitativi con un solido ancoraggio nella letteratura scientifica internazionale. Alla stesura di queste revisioni hanno partecipato i principali esperti neuropsicologi italiani. Il volume rappresenta così un update fondamentale per il professionista (fisiatra, logopedista, neurologo, neuropsicologo, psicologo, terapista della riabilitazione, terapista occupazionale) che svolge la sua attività nell’ambito della riabilitazione neuropsicologica.

Features
Il volume presenta i lavori di revisione della letteratura relativa alla riabilitazione neuropsicologica effettuati come lavoro preparatorio per la Consensus Conference sulla Riabilitazione neuropsicologica che si è tenuta a Siena nel febbraio del 2010 sotto gli auspici di una serie di associazioni e società scientifiche e professionali. L’approccio usato in modo comune in tutte le revisioni è quello della “evidence-based medicine” che consente di arrivare a delle raccomandazioni sull’efficacia dei diversi trattamenti riabilitativi con un solido ancoraggio nella letteratura scientifica internazionale. Alla stesura di queste revisioni hanno partecipato i principali esperti neuropsicologi italiani. Il volume rappresenta così un update fondamentale per il professionista (fisiatra, logopedista, neurologo, neuropsicologo, psicologo, terapista della riabilitazione, terapista occupazionale) che svolge la sua attività nell’ambito della riabilitazione neuropsicologica.

Fields of interest
Neuropsychology; Behavioural Sciences; Medicine (general)

Target groups
Professional/practitioner

Type of publication
Contributed volume

Due: dicembre 2011

2012. 300 pagg. 20 figg. Softcover

$59.95

Paradigms in Theory Construction

Within the field of psychology there is a proliferation of paradigms, theories, models, and dimensions without an underlying conceptual framework or theory. This conclusion has been reached by representatives of many different psychological specialties. In response to this inconsistency this book presents a hierarchical framework about important theoretical issues that are present in psychological thinking. These issues concern definitions of three major theoretical concepts in theory and practice: (a) paradigms, (b) theories, and (c) models. It focuses on defining, comparing, and contrasting these three conceptual terms. This framework clarifies differences among paradigms, theories, and models, terms which have become increasingly confused in the psychological literature. Paradigms are usually confused with theories or with models while theories are confused with models. Examples of misuses of these terms suggest the need for a hierarchical structure that views paradigms as conceptual [...]

Features
Paradigms in Theory ConstructionLuciano L’Abate, editorWithout the framework of the paradigm supporting layers of theories, models, and data, our concept of science, and its shared mode of scholarly thought, would not exist. The concept is readily understood. But how did we get there? Paradigms in Theory Construction classifies the collective worldviews that inform paradigms and [...]
Pediatric and Adolescent Concussion

Diagnosis, Management, and Outcomes

Between the growing numbers of children and adolescents playing sports and the increased attention to head injuries by the larger sports community and the general public, pediatric concussions are emerging as a major concern. And as practitioners are seeing more young clients with head injuries, questions arise about age-appropriate assessment, diagnosis, treatment, and return to activity. Pediatric and Adolescent Concussion: Diagnosis, Management, and Outcomes offers evidence-based guidelines where few previously existed. This comprehensive volume clearly explains the effects of traumatic injury on the developing brain in sports- and non-sports-related contexts, and establishes a framework for immediate and long-term management, especially the crucial first 24 hours. Chapters provide a basic grounding in its subject with a history of concussion as a medical entity and a review of definitional and classification issues, take the reader through the steps of a neuropsychological evaluation, pinpoint[..]

Features

Between the growing numbers of children and adolescents playing sports and the increased attention paid to head injuries by the larger sports community and the general public, pediatric concussions are emerging as a major concern. And as practitioners are seeing more young clients with head injuries, questions arise about age-appropriate assessment, diagnosis, treatment, and return to activity. Pediatric ...

Aging in China

Implications to Social Policy of a Changing Economic State

China, which is fast on its way to becoming the most powerful economic force in the world, has four unique characteristics that distinguish it from other countries in Asia: (1) The proportion of aging population is growing faster than that of Japan (the country previously recognized as having the fastest rate) and much faster than nations in western Europe. (2) An early arrival of an aging population before modernization has fully taken place, with social policy implications. It is certain that China will face a severely aged population before it has sufficient time and resources to establish an adequate social security and service system for older people. (3) There will be fluctuations in the total dependency ratio. The Chinese government estimates are that the country will reach a higher dependent burden earlier in the twenty-first century than was previously forecast. (4) The government’s fertility policy (single child per family) and its implementation has a strong influence on the aging[..]

Features

Aging in China Implications to Social Policy of a Changing Economic State Sheying Chen and Jason L. Powell, editors China’s elder population is growing faster than that of Japan—especially the crucial first 24 hours. Chapters provide a basic grounding in its subject with a history of concussion as a medical entity and a review of definitional and classification issues, take the reader through the steps of a neuropsychological evaluation, pinpoint[..]

Social Sciences

G. Moro, Rome, Italy

Citizens in Europe

Civic Activism and the Community Democratic Experiment

In the Community-building process, citizens are the most invoked and feared, but at the same time the least known subject. This lack of knowledge nourishes the citizens’ detachment from the European Union and itself emerged in well-known cases such as the French and Dutch referenda on the Constitutional Treaty or the public concern towards the EU policy on immigration. This gap is truly especially for active citizenship organizations operating in the European policy making, not only in Brussels, but also and above all at national and local levels, and this book is aimed at filling this knowledge gap. The book is divided into two parts. The first part of the book focuses on the way in which the literature on EU governance and citizenship and on participatory democracy deals with citizen activism in public policy making. The second part discusses a number of empirical research projects on civic activism in Europe. This book aims, on the one hand, to bridge the academic debate to more policy[..]

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Contents


Fields of interest

Political Science, general; European Integration; Social Policy

Target groups

Research

Type of publication

Monograph

Usually dispatched within 3 to 5 business days

2012. XIV, 210 p. 4 illus. Hardcover

$139.00


Social Sciences

Citizens in Europe

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Contents


Fields of interest

Political Science, general; European Integration; Social Policy

Target groups

Research

Type of publication

Monograph

Usually dispatched within 3 to 5 business days

2012. XIV, 210 p. 4 illus. Hardcover

$139.00

Defining Democracy

Voting Procedures in Decision-Making, Elections and Governance

Defining Democracy looks both at the theory of why and the history of how different voting procedures have come to be used—or not, as the case may be—in the three fields of democratic structures: firstly, in decision-making, both in society at large and in the elected chamber; secondly, in elections to and within those chambers; and thirdly, in the various forms of governance, from no-party to multi-party and all-party, which have emerged as a result.

Features

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The Europeanization of Domestic Legislatures

The Empirical Implications of the Delors’ Myth in Nine Countries

In ten years 80 per cent of the legislation related to economics, maybe also to taxes and social affairs, will be of Community origin. This declaration has been largely quoted, paraphrased and deformed by different authors, creating a persistent myth according to which 80% of the legislative activity of the national legislatures would soon be reduced to the simple transposition of European norms. This book addresses the topic of the scope and impact of Europeanization on national legislation, as a part of the Europeanization debate which raises normative concerns linked to the “democratic deficit” debate. The state of the art shows that there are many assumptions and claims on how European integration may affect national legislation and, more generally, domestic governance but that there is a lack of solid and comparative data to test them. The aim of the book is to give a solid and comparative insight into Europeanization focusing on effective outcomes in a systematic way. This book analyzes the [...] Features

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Political Science, general; Public International Law; European Integration

Target groups

Professional/practitioner

Type of publication

Contributed volume

Usually dispatched within 3 to 5 business days

2012, VIII, 244 p. 41 illus., 30 in color. (Studies in Public Choice, Vol. 0) Hardcover

$139.00

The Global Victimization of Children

Problems and Solutions

This book describes the concept of child victimization in all its facets. Millions of young people throughout the world face violence, sexual, physical, and emotional abuse and exploitation on a daily basis. The worldwide victimization of young people can be prevented, or, at least, its incidence can be greatly reduced, if purposeful action is taken to do so. This volume researches and documents some of the ways in which young people throughout the world are victimized, and suggests strategies for preventing various forms of child victimization. Eight distinct forms of victimization are identified and analyzed in detail. Included are discussions on child prostitution and pornography, economic exploitation through child labor and trafficking, physical and other abuse inflicted on young people in schools and other institutions, the use of children as armed combatants, and the denial of the basic needs and rights of children to such things as home and to education. In each chapter the [...] Features

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Criminology & Criminal Justice; Maternal and Child Health; Social Work; Social Policy

Target groups

Research

Type of publication

Monograph

Usually dispatched within 3 to 5 business days

2012, XII, 379 p. 7 illus. (Sociology of the Sciences Yearbook, Vol. 28) Hardcover

$189.00
ISBN 978-94-007-2084-8

The Sciences’ Media Connection – Public Communication and its Repercussions

The Yearbook addresses the overriding question: what are the effects of the ‘opening up’ of science to the media? Theoretical considerations and a host of empirical studies covering different configurations provide an in-depth analysis of the sciences’ media connection and its repercussions on science itself. They help to form a sound judgement on this recent development. Features

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Contents


Fields of interest

Sociology, general; History of Science

Target groups

Research

Type of publication

Contributed volume

Usually dispatched within 3 to 5 business days

2012, XII, 379 p. 7 illus. (Sociology of the Sciences Yearbook, Vol. 28) Hardcover

$189.00
ISBN 978-94-007-2084-8

2012, XIII, 402 p. 1 illus. Hardcover

$169.00
ISBN 978-1-4614-2178-8
Tourism and Archaeological Heritage Management at Petra

Driver to Development or Destruction?

Once visited only by the cognoscenti of the ancient world, over the last decade Petra has drawn almost a million visitors in some years. Petra burst into popular consciousness with the release of enormously popular motion picture Raiders of the Lost Ark in 1981. Moviegoers all over the world were introduced to some of the spectacular scenic wonders of Petra: the Siq, a narrow chasm with colorful, towering sandstone walls, and Al-Khazna, the exquisitely carved tomb for a Nabataean king. For centuries, the Nabataeans controlled the trade in precious commodities across the Arabian Peninsula, bringing spices from Southeast Asia, incense from present-day Yemen, gold and ivory from Africa, and silk from the Far East across the Empty Quarter to ports on the western Mediterranean. In 1985, Petra was included on the list of World Heritage Sites. Since then, low cost jet travel and a fast highway from the capital city of Amman have made the site increasingly accessible. The Jordanian government has made[...]

Features

Once visited only by the cognoscenti of the ancient world, over the last decade Petra has drawn almost a million visitors in some years. Petra burst into popular consciousness with the release of enormously popular motion picture Raiders of the Lost Ark in 1981. Moviegoers all over the world were introduced to some of the spectacular scenic wonders of Petra: the Siq, a narrow chasm with colorful, [...]

Fields of interest

Archaeology; Cultural Heritage

Target groups

Research

Type of publication

Brief

Usually dispatched within 3 to 5 business days

2012. XVI, 187 p. 97 illus., 11 in color. (SpringerBriefs in Archaeological Heritage Management, Vol. 0) Softcover

$49.95

Two Centuries of Local Autonomy

One of the last Prussian Reforms during the Napoleonic Era was the constitution of local autonomy for the cities. Proof of its lasting importance is that it was the cities that carried out the deficit-based employment policies of the early 1930s also had to carry the burden of a democratic reconstitution of Germany in the postwar period. After the crushing defeat at Napoleon’s hands, likewise the reconstitution of Prussia fell to the cities. Today, the same constellation of problems can be found on different stages. Europe, as it is growing together, faces a democracy deficit which ultimately will have to be addressed by the cities. The countries in transition and undergoing transformation likewise will have to find arenas for democratic decision making, which likely will be at the municipal level. Finally, the United States of America also faces a quagmire at the federal level which ultimately will have to be resolved at the state or local level. Contributions to this book examine all of these[...]

Features

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Fields of interest

Political Science, general

Target groups

Research

Type of publication

Contributed volume

Usually dispatched within 3 to 5 business days


$119.00

Understanding Lone Wolf Terrorism

Global Patterns, Motivations and Prevention

What drives the lone wolf terrorist to commit mass violence? What are their ideologies and motivations? How do they plan and carry out their attacks, and who do they target? How can lone wolf terrorism be effectively countered? One of the first in-depth analyses of lone wolf terrorism, this publication sets out to answer these questions. Drawing on extensive international data and qualitative case studies, it examines the global patterns in and key features of lone wolf terrorism over the past four decades. This engaging text will be essential reading for students and researchers on terrorism and violent conflict and offers unique and invaluable insights to those working to prevent or minimize the effects of terrorism and political violence.

Features

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Fields of interest

Criminology & Criminal Justice; Sociology, general; Political Science, general

Target groups

Research

Type of publication

Brief

Usually dispatched within 3 to 5 business days

2012. VIII, 119 p. 7 illus. (SpringerBriefs in Criminology) Softcover

$69.95
ISBN 978-94-007-2980-3
Youth Gangs in International Perspective

Results from the Eurogang Program of Research

As a steady source of juvenile delinquents and an incubator for future adult offenders, the youth gang has long been a focus of attention, from their origins and prevalence to intervention and prevention strategies. But while delinquent youth form gangs worldwide, youth gang research has generally focused on the U.S. Youth Gangs in International Perspective provides a needed corrective by offering significant studies from across Europe, as well as Trinidad-Tobago and Israel. The book spans the diversity of the field in the cultural and scholarly traditions represented and methods used, analyzing not only the social processes under which gangs operate and cohere, but also the evolution of the research base, starting with the Eurogang Program’s definition of the term youth gang. Cross-national and gender issues are discussed, as are measurement concerns and the possibility that the American conception of the youth gang is impeding European understanding of these groups. Among the topics covered: Gang[...]

Features

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Fields of interest

Criminology & Criminal Justice; Social Policy

Target groups

Research

Type of publication

Contributed volume

Usually dispatched within 3 to 5 business days

2012, X, 319 p. 13 illus. Hardcover

$179.00
ISBN 978-1-4614-1658-6

Statistics

J. Hedderich, Universitätsklinikum Schleswig-Holstein, Campus Kiel; L. Sachs, Schwestinental

Angewandte Statistik

Methodensammlung mit R


Features

Die Anwendung statistischer Methoden wird heute durch den Einsatz von Computern unterstützt. Das frei verfügbare Programm R ist dabei ein leicht erlernbares und flexibel einzusetzendes Werkzeug, mit dem der Prozess der Datenanalyse nachvollziehbar verstanden und gestaltet werden kann. Anwendung und Nutzen des Programms werden in diesem Buch anhand zahlreicher mit R durchgerechneter Beispiele veranschaulicht.[...]

Contents


Fields of interest

Statistics for Life Sciences, Medicine, Health Sciences

Target groups

Research

Type of publication

Monograph

Usually dispatched within 3 to 5 business days

2012, XVI, 352 p. 162 illus., 73 in color. (Use R!, Vol.) Softcover

$64.95
ISBN 978-1-4614-1301-1

Biostatistics with R

B. Shahbaba, University of California, Irvine, CA, USA

An Introduction to Statistics Through Biological Data

Features

Biostatistics with R is designed around the dynamic interplay among statistical methods, their applications in biology, and their implementation. The book explains basic statistical concepts with a simple yet rigorous language. The development of ideas is in the context of real applied problems, for which step-by-step instructions for using R and R-Commander are provided. Topics include data exploration,[...]

Contents


Fields of interest

Statistics for Life Sciences, Medicine, Health Sciences

Target groups

Research

Type of publication

Monograph

Usually dispatched within 3 to 5 business days

2012, XVI, 352 p. 162 illus., 73 in color. (Use R!, Vol.) Softcover

$64.95
ISBN 978-1-4614-1301-1

2012, XXX, 881 S. 181 Abb. Softcover

$59.95
ISBN 978-3-642-24400-1
Modern Mathematical Statistics with Applications

Many mathematical statistics texts are heavily oriented toward a rigorous mathematical development of probability and statistics, without much attention paid to how statistics is actually used. In contrast, Modern Mathematical Statistics with Applications, Second Edition strikes a balance between mathematical foundations and statistical practice. In keeping with the recommendation that every math student should study statistics and probability with an emphasis on data analysis, accomplished authors Jay Devore and Kenneth Berk make statistical concepts and methods clear and relevant through careful explanations and a broad range of applications involving real data. The main focus of the book is on presenting and illustrating methods of inferential statistics that are useful in research. It begins with a chapter on descriptive statistics that immediately exposes the reader to real data. The next six chapters develop the probability material that bridges the gap between descriptive and inferential aspects.

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Contents

Fields of interest
Statistics (general); Statistical Theory and Methods

Target groups
Upper undergraduate

Type of publication
Graduate/advanced undergraduate textbook

Selected Works of David Brillinger

This volume contains 30 of David Brillinger’s most influential papers. He is an eminent statistical scientist, having published broadly in time series and point process analysis, seismology, neurophysiology, and population biology. Each of these areas is well represented in the book. The volume has been divided into four parts, each with comments by one of Dr. Brillinger’s former PhD students. His more theoretical papers have comments by Victor Panaretos from Switzerland. The area of time series has commentary by Pedro Morettin from Brazil. The biologically oriented papers are commented by Toru Schweder from Norway and Haiganoush Preisler from USA, while the point process papers have comments by Peter Guttorp from USA. In addition, the volume contains a Statistical Science interview with Dr. Brillinger, and his bibliography.

Features
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Contents

Fields of interest
Statistical Theory and Methods

Target groups
Research

Type of publication
Reference work

Usually dispatched within 3 to 5 business days

2012, XXXVIII, 613 p. 180 illus. (Selected Works in Probability and Statistics) Hardcover

$229.00
ISBN 978-1-4614-1343-1

Selected Works of Willem van Zwet

With this collections volume, some of the important works of Willem van Zwet are moved to the front layers of modern statistics. The selection was based on discussions with Willem, and aims at a representative sample. The result is a collection of papers that the new generations of statisticians should not be denied. They are here to stay, to enjoy and to form the basis for further research. The papers are grouped into six themes: fundamental statistics, asymptotic theory, second-order approximations, resampling, applications, and probability. This volume serves as basic reference for fundamental statistical theory, and at the same time reveals some of its history. The papers are grouped into six themes: fundamental statistics, asymptotic theory, second-order approximations, resampling, applications, and probability. This volume serves as basic reference for fundamental statistical theory, and at the same time reveals some of its history. The papers are grouped into six themes: fundamental statistics, asymptotic theory, second-order approximations, resampling, applications, and probability. This volume serves as basic reference for fundamental statistical theory, and at the same time reveals some of its history.

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Contents

Fields of interest
Statistical Theory and Methods

Target groups
Research

Type of publication
Monograph

Usually dispatched within 3 to 5 business days

2012, XXIV, 484 p. (Selected Works in Probability and Statistics) Hardcover

$89.95
ISBN 978-1-4614-1313-4
Two-Way Analysis of Variance

In statistics, analysis of variance (ANOVA) is a collection of statistical models used to distinguish between an observed variance in a particular variable and its component parts. In its simplest form, ANOVA provides a statistical test of whether or not the means of several groups are all equal, and therefore generalizes a test between these groups. One test often used by statisticians and researchers in their work is the Two-Way ANOVA, which determines the differences—and possible interactions—when variables are presented from the perspective of two or more categories. When a Two-Way ANOVA is implemented, it enables one to compare and contrast variables resulting from independent or joint actions. This brief provides guidance on how R can be used to facilitate Two-Way ANOVA for data analysis and graphical presentation. Along with instruction on the use of R and R syntax associated with Two-Way ANOVA, this brief will also reinforce the use of descriptive statistics and graphical figures to[...]

Features
In statistics, analysis of variance (ANOVA) is a collection of statistical models used to distinguish between an observed variance in a particular variable and its component parts. In its simplest form, ANOVA provides a statistical test of whether or not the means of several groups are all equal, and therefore generalizes a test between these groups. One test often used by statisticians and researchers in[...]

Contents

Fields of interest
Statistics for Social Science, Behavioral Science, Education, Public Policy, and Law; Statistics (general); Statistical Theory and Methods

Target groups
Research

Type of publication
Brief

Usually dispatched within 3 to 5 business days

2012. VII, 150 p. 3 illus., 2 in color. (SpringerBriefs in Statistics) Softcover

$39.95
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