Arts

M. Marsden, University of London, UK; K. Retsikas, University of London, UK (Eds.)

Articulating Islam: Anthropological Approaches to Muslim Worlds

This collection of arresting and innovative chapters applies the techniques of anthropology in analyzing the role played by Islam in the social lives of the world’s Muslims. The volume begins with an introduction that sets out a powerful case for a fresh approach to this kind of research, exhorting anthropologists to pause and reflect on when Islam is, and is not, a central feature of their informants’ life-worlds and identities. The chapters that follow are written by scholars with long-term, specialist research experience in Muslim societies ranging from Kenya to Pakistan and from Yemen to China: thus they explore and compare Islam’s social significance in a variety of settings that[...]

Features
This collection of arresting and innovative chapters applies the techniques of anthropology in analyzing the role played by Islam in the social lives of the world’s Muslims. The volume begins with an introduction that sets out a powerful case for a fresh approach to this kind of research, exhorting anthropologists to pause and reflect on when Islam is, and is not, a central feature of their informants’[...]

Contents

Fields of interest
Religious Studies; Anthropology; Regional and Cultural Studies

Target groups
Research

Type of publication
Contributed volume

More on www.springer.com/978-94-007-4266-6

Hardcover
2013. VIII, 260 p. 17 illus. (Muslims in Global Societies Series, Vol. 6)
129,95 €
ISBN 978-94-007-4266-6
Usually dispatched within 3 to 5 business days.

Biomedicine

N.C. Murali, Dana Farber Cancer Institute, Boston, MA, USA; K.C. Anderson, Dana Farber Cancer Institute, Boston, MA, USA (Eds.)

Advances in Biology and Therapy of Multiple Myeloma

Volume 1: Basic Science

Despite the advances in conventional, novel agent and high dose chemotherapy multiple myeloma (MM) remains incurable. In order to overcome resistance to current therapies and improve patient outcome, novel biologically-based treatment approaches are being developed. Current translational research in MM focusing on the development of molecularly-based combination therapies has great promise to achieve high frequency and durable responses in the majority of patients. Two major advances are making this goal possible. First, recent advances in genomics and proteomics in MM have allowed for increased understanding of disease pathogenesis, identified novel therapeutic targets, allowed for[...]

Features
Despite the advances in conventional, novel agent and high dose chemotherapy, multiple myeloma remains incurable. In order to overcome resistance to current therapies and improve patient outcome, novel biologically-based treatment approaches are being developed. Current translational research in multiple myeloma focusing on the development of molecularly-based novel targeted single-agent and combination[...]

Contents

Fields of interest
Cancer Research; Pharmacology / Toxicology

Target groups
Professional/practitioner

Type of publication
Contributed volume

More on www.springer.com/978-1-6414-4665-1

Hardcover
2013. X, 319 p. 34 illus., 26 in color. (Neuromethods, Vol. 77)
109,95 €
ISBN 978-1-62703-208-7
Online orders shipping within 2-3 days.

Animal Models of Brain Tumors

Although the available models, whether at the cellular, tissue, or animal level, do not exactly represent the biology of human brain tumors, animal models can offer significant insights into these tumors, providing a better understanding of biological mechanisms underlying tumor generation, growth, angiogenesis, invasion, and metastasis. Animal Models of Brain Tumors brings together developments and discoveries in “in vivo” experimental tumor research that have provided advances in our understanding of the cellular and molecular mechanisms involved in the generation, progression, and clinical outcome of brain neoplasms. Broken into convenient sections, this thorough volume includes[...]

Features
Although the available models, whether at the cellular, tissue, or animal level, do not exactly represent the biology of human brain tumors, animal models can offer significant insights into these tumors, providing a better understanding of biological mechanisms underlying tumor generation, growth, angiogenesis, invasion, and metastasis. Animal Models of Brain Tumors brings together developments and[...]

Contents

Fields of interest
Neurosciences; Neurology; Animal Models

Target groups
Professional/practitioner

Type of publication
Contributed volume

More on www.springer.com/978-1-62703-208-7

Hardcover
2013. XII, 391 p. 66 illus., 43 in color. (Neuromethods, Vol. 77)
109,95 €
ISBN 978-1-62703-208-7
Online orders shipping within 2-3 days.
Breast Cancer Metastasis and Drug Resistance

This volume comprehensively covers recent progress in breast cancer research. In an effort to successfully treat breast cancer, it is imperative to a) fully understand the disease with all its heterogeneity, b) understand the factors that influence the metastasis of breast cancer to distant organs making it lethal and c) understand the underlying processes that lead to the phenomenon of drug resistance making the disease particularly incurable. The book explores all of these issues, including the phenomenon of epithelial-mesenchymal-transition, cancer stem cells as well as microRNAs in an attempt to better understand the disease in connection to its clinical behavior.

Contents

Fields of interest
Cancer Research; Drug Resistance

Target groups
Research

Type of publication
Contributed volume

More on www.springer.com/978-1-4614-5646-9

Cellular Trafficking of Cell Stress Proteins in Health and Disease

Since the beginning of the 21st Century there has been a rapid increase in our understanding of the cellular trafficking mechanisms of molecular chaperones in eukaryotes and in prokaryotes. In the former, molecular chaperone trafficking can occur between the various cellular compartments, with concomitant movement of other proteins. Such events can also result in the release of molecular chaperones from cells in bacteria, molecular chaperones are involved in the trafficking of other proteins and are themselves released into the external milieu. The increasing appreciation of the role of molecular chaperones and Protein-Folding Catalysts in the interplay between bacteria and the cell...

Contents

Fields of interest
Human Physiology; Life Sciences (general); Neuroscience; Molecular Medicine

Target groups
Research

Type of publication
Contributed volume


Hardcover
2012. XIII, 297 p. 28 illus., 13 in color. 149,95 €
Usually dispatched within 3 to 5 business days.

Hardcover
2013. XI, 413 p. 59 illus., 45 in color. 149,95 €
Usually dispatched within 3 to 5 business days.

Cancer Immunotherapy

Paradigms, Practice and Promise

This work will provide a historical perspective on tumor immunotherapy, discuss fundamental mechanisms of failed tumor rejection, look at passive strategies to boost anti-tumor immunity, as well as have an in-depth look at active strategies to boost anti-tumor immunity.

Features
This volume is a comprehensive discussion of the major factors affecting tumor immunology and a discussion of all major anti-cancer immunotherapeutic agents approved by the Food and Drug Administration of the United States and by European agencies. Many promising but unapproved agents in clinical trials are also discussed, as are key pre-clinical developments. The major challenges and intellectual issues...

Contents
Chronobiology and Obesity

Circadian rhythms are such an innate part of our lives that we rarely pause to speculate why they even exist. Some studies have suggested that the disruption of the circadian system may be causal for obesity and manifestations of Metabolic Syndrome (Mets). Shift-work, sleep-deprivation and bright-light exposure at night are related to increased adiposity (obesity) and prevalence of Mets. It has been provided evidence of clock genes expression in human adipose tissue and demonstrated its association with different components of the Mets. Moreover, current studies are illustrating the particular role of different clock genes variants and their predicted haplotypes in Mets. The purpose[…]

Features
Circadian rhythms are such an innate part of our lives that we rarely pause to speculate why they even exist. Perhaps this is the reason why in the medical practice the circadian variability of hormones, metabolites, physiological behaviors or the relevance of time in the presence or absence of different pathologies, have been practically ignored in the past. Some studies have suggested that the disruption […]

Contents
Preface.- Foreword.- Discovery of the Clock mutant and the first mammalian clock gene and the links to obesity: Staring with animal #25.- An introduction to chronobiology.- Adipose tissue as a peripheral clock.- Processes Underlying Chronodisruption and their Proposed Association with illness.- Obesity and Chronodisruption: An imbalance between energy intake and expenditure.- Sleep and MetS alterations.- Increased risk of diabetes due to obesity: does chronodisruption play a role?.- Genetics in chronobiology and obesity.- Chronobiology And Metabolic-Syndrome: From Genes To Systems[…]

Fields of interest
Human Genetics; Endocrinology; Biomedicine (general)

Target groups
Research

Type of publication
Contributed volume

More on www.springer.com/978-1-4614-5081-8

DNA Helicases and DNA Motor Proteins

In recent years, a number of groundbreaking structural and mechanistic studies deepened our understanding of helicase mechanisms and established new approaches for their analyses. Many fundamental mechanistic questions ranging from the mechanism of force generation, mechanochemical coupling to distinct mechanisms by which the same enzyme translocates on DNA removing obstacles, unwinds DNA and/or remodels nucleoprotein complexes, however, remain to be answered. It is even less understood how the helicase motors are incorporated into a wide range of genome maintenance and repair machines. The field has reached a stage when the studies of molecular mechanisms and basic biology off[…]
Epigenetics: Development and Disease

Epigenetics is the phenomenon which fine tunes the processes associated with life, beyond that which is specified by the sequence of the genetic material. DNA. The covalent modification of DNA, DNA associated histones, several non histone proteins as well as non coding RNA coherently operate to establish the epigenetic regulation of gene expression in physiological and pathophysiological conditions. This volume presents contributions from worldwide experts presenting their research and findings, including: the evolution of epigenetic machineries from archaea to higher eukaryotes; role of epigenetics in development and transcription regulation; epigenetic landscape of human disease; [...]

Features
Epigenetics is the phenomenon which fine tunes the processes associated with life, beyond that which is specified by the sequence of the genetic material. DNA. The covalent modification of DNA, DNA associated histones, several non histone proteins as well as non coding RNA coherently operate to establish the epigenetic regulation of gene expression in physiological and pathophysiological conditions. [...]
Hematologic Cancers: From Molecular Pathobiology to Targeted Therapeutics

In the last decade, there has been a remarkable explosion of knowledge in hematologic cancer from basic molecular biology and pathology to clinical therapy. This has led to many new advances and insights in the understanding of pathobiology of malignant hematology. New knowledge of disease molecular pathology, cytogenetic, epigenetic and genomic alterations have provided new strategies to attack and eradicate tumor cells at molecular level and significantly impacted our current therapeutics for hematological malignancies. The recent and ongoing rapid expansion of knowledge in this area has become extensive, dynamic and diffuse over the literature and research publications. This has led [...] Features
In the last decade, there has been a remarkable explosion of knowledge in hematologic cancer from basic molecular biology and pathology to clinical therapy. This has led to many new advances and insights in the understanding of pathobiology of malignant hematology. New knowledge of disease molecular pathology, cytogenetic, epigenetic and genomic alterations have provided new strategies to attack and eradicate [...]

Contents
Preface.-1 B-Cell Growth, Differentiation and Malignancies.-2 Follicular Lymphoma: Recent advances.-3 Chronic Lymphocytic Leukemia: From Pathobiology to Targeted Therapy.-4 Genetic and Environmental Determinants in Multiple Myeloma: Implications for Therapy.-5 EBV-Positive Diffuse Large B-Cell Lymphoma of the Elderly.-6 HIV and Lymphoma.-7 Molecular Biology of Mantle Cell Lymphoma.-8 Pathogenesis of Non-Hodgkin Lymphoma Derived from Inflammatory, Autoimmune or Immuno-logic Disorders.-9 Pathogenesis of Non-Hodgkin Lymphoma Derived from Infection Diseases.-10 Hodgkin Lymphoma: From[...]

Fields of interest
Cancer Research; Hematology; Laboratory Medicine; Molecular Medicine; Apoptosis; Cell Biology

Target groups
Research

Type of publication
Contributed volume

More on www.springer.com/978-94-007-5027-2

Hardcover
2012, VI, 426 p. 26 illus., 20 in color. (Cancer Growth and Progression, Vol. 14)
149.95 €

Usually dispatched within 3 to 5 business days.

Introduction to Structural Chemistry

A concise description of models and quantitative parameters in structural chemistry and their inter-relations, with 280 tables and >3000 references giving the most up-to-date experimental data on energy characteristics of atoms, molecules and crystals (ionisation potentials, electron affinities, bond energies, heats of phase transitions, band and lattice energies), optical properties (refractive index, polarisability), spectroscopic characteristics and geometrical parameters (bond distances and angles, coordination numbers) of substances in gaseous, liquid and solid states, in glasses and melts, for various thermodynamic conditions. Systems of metallic, covalent, ionic and van der[...]

Features

Structural chemistry often suffers from fragmented approach, progressing either from the aggregate state (crystallography vs isolated molecule structure), from the method of investigation (X-ray diffraction, spectroscopy, compressibility, etc.) or from the type of substances (inorganic, organometallic, organic). The present book attempts to bridge these gaps, linking the properties of atoms,[...]

Contents

Fields of interest

Biomedicine (general); Physical Chemistry; Crystallography; Nanoscale Science and Technology; Atomic/Molecular Structure and Spectra; Solid State Physics

Target groups
Research

Type of publication
Monograph

More on www.springer.com/978-94-007-4770-8

Hardcover
2012, X, 542 p. 75 illus., 10 in color.
149,95 €
ISBN 978-94-007-4770-8

Usually dispatched within 3 to 5 business days.

MicroRNAs as Tools in Biopharmaceutical Production

Focused manuscript on the potential use/role of miRNAs in bioprocessing, specifically the production of complex proteins in mammalian cells. With that in mind I propose a draft list of topics/chapters along the following lines: Intro on CHO/bioprocessing/engineering challenges to set scene, Genomic organization, biogenesis and mode of action, Identifying miRNA targets: Computational prediction, transcriptomics, proteomics, UTR analysis, etc., miRNA expression in Chinese Hamster Ovary cells, miRNAs as engineering targets: pathway manipulation to impact bioprocess phenotypes, miRNAs as biomarkers, Detection methods: Northern, PCR, hybridization arrays, Next Gen Seq, Manipulation of[...]

Features

MicroRNAs are small, non-coding RNA molecules that interact with target miRNAs to modulate their translation. They are now recognized as widespread and critical regulators of gene expression in the cell. This book is aimed at both industry- and academic-based researchers in the Biopharmaceutical production space who wish to learn more about these fascinating molecules. It provides an overview of what is[...]

Contents
Preface.-1 A general introduction to microRNAs, their investigation and exploitation in CHO cell lines.-2 Biogenesis of Mammalian miRNA.-3 Target prediction algorithms and bioinformatics resources for miRNA studies.-4 The CHO miRNA transcriptome.-5 MicroRNAs as engineering targets - pathway manipulation to impact bioprocess phenotypes.-6 MicroRNAs for Enhancement of CHO Cell Proliferation and Stability Insights from Neuroblastoma Studies.-7 MicroRNA Detection Methods for Mammalian Cell Lines and Their Applications in Therapeutic Protein Production.-8 Manipulating Levels of Specific[...]

Fields of interest

Pharmaceutical Sciences / Technology; Genetic Engineering; Animal Genetics and Genomics

Target groups
Research

Type of publication
Contributed volume

More on www.springer.com/978-94-007-5127-9

Hardcover
2012, IX, 124 p. 9 illus., 6 in color.
99,95 €
ISBN 978-94-007-5127-9

Usually dispatched within 3 to 5 business days.
Microdialysis Techniques in Neuroscience

Since its first application, microdialysis has become incredibly popular to study brain function and has been applied with success in different fields from psychopharmacology, neurobiology, and physiology in animals and also humans. Microdialysis Techniques in Neuroscience focuses on the practical aspects of microdialysis in animal and human, highlighting current technical limitations and providing a vision of what is yet to come for the determination of the most disparate compounds in the brain. The book's contents range from new techniques for detection and quantifying the release of several different neurotransmitters in vitro and in vivo, even in freely moving animals, to...[

Features
Since its first application, microdialysis has become incredibly popular to study brain function and has been applied with success in different fields from psychopharmacology, neurobiology, and physiology in animals and also humans. Microdialysis Techniques in Neuroscience focuses on the practical aspects of microdialysis in animal and human, highlighting current technical limitations and providing a...[

Contents
Cerebral Microdialysis: Research Technique or Clinical Tool? - In Vivo Microdialysis to Study Striatal Dopaminergic Neurodegeneration - Application of Reverse Microdialysis in Neuropharmacological Studies - Microdialysis and Advances for Sampling Synaptic and Extrasynaptic Pools - In Vivo Microdialysis for Measurement of Oxidative Metabolism in the Living Brain - Quantitative In Vivo Microdialysis - In Vivo Microdialysis with Selective Electrochemical Detection for Online Continuously Monitoring Brain Chemistry - Application of Spinal...[

Fields of interest
Neurosciences; Neurobiology

Target groups
Professional/practitioner

Type of publication
Contributed volume

More on www.springer.com/978-1-62703-172-1

Hardcover
2013. XVI, 341 p. 113 illus., 10 in color. (Neuromethods, Vol. 75)  109,95 €
ISBN 978-1-62703-172-1
Usually dispatched within 3 to 5 business days.

Morphine and Metastasis

This book would combine chapters written by the most qualified authors around the world whose research encompasses the effect of morphine or other opioids on tumor growth and metastasis. This includes clinicians involved in trials determining which type of post surgical pain management can minimize the risk of recurrence or metastasis, researchers working on animal models and studying the effect of morphine on tumors, and most importantly the mechanism for this effect, and lastly cell biologists. There is currently a lot of research going on trying to reconcile the pro- and anti-cancer aspects of opioids actions.

Features
The possibility that morphine and other opioids may modulate tumour growth and metastasis has been researched for many years. The recent past has seen multiple clinical studies attempting to document whether limiting the perioperative use of morphine is beneficial for cancer surgery patients. Furthermore, a lot of exciting new data has been generated in vitro, but also in preclinical and clinical studies,...

Contents
1 Morphine and metastasis: from bench to bedside - 2 Interaction of Naloxone and Estrogen Receptor in Breast Cancer - 3 Morphine and immuno-suppression in the context of tumor growth and metastasis - 4 Opioid Regulation of Vascular Integrity - 5 Iatrogenic Angiogenesis - 6 Could opioids affect cancer recurrence or metastases? Current experimental and Translational Evidence - 7 Genetic polymorphisms in the μ-opioid receptor gene and breast cancer survival - 8 Anaesthetic and pain management technique in long term cancer outcome - benefits of regional anaesthesia and analgesia in the...[

Fields of interest
Cancer Research; Pharmacy; Pharmacology / Toxicology; Pain Medicine; Oncology

Target groups
Research

Type of publication
Contributed volume

More on www.springer.com/978-1-62703-172-1

Hardcover
2013. V, 146 p. 20 illus., 16 in color. 99,95 €
ISBN 978-94-007-5677-9
Usually dispatched within 3 to 5 business days.

Natural Products and Cancer Drug Discovery

This volume will cover the natural products as they relate to cancer chemotherapy. The topics will include history and current status, recent launches, new clinical candidates and approved drugs directly derived from natural products, current and future cancer target opportunities for natural products, leveraging natural products as tools for new target generation, new approaches to cancer drug discovery through natural products based lead generation, and enabling technologies which leverage the unique attributes of natural products.

Features
Natural products - compounds derived from plants, microbes and marine organisms, have been an unsurpassed source of cancer drugs in the modern era of drug discovery. The historical record is strong, but what is the current impact of natural products in the discovery and development of cancer drugs, and importantly what are the prospects for natural products to be a valuable source of future...[

Contents
Preface - The Impact of Natural Products upon Cancer Chemotherapy - Identification and development of vascular disrupting agents: Natural products that interfere with tumor growth - Discodermolide: Past, Present and Future - HDAC Inhibitors and Other Histone Modifying Natural Products as Emerging Anticancer Agents - Natural Product Cytotoxins As Payloads For Antibody Drug Conjugates - Natural Product Scaffolds in Cancer Therapy - The Role of Genetic Engineering in Natural Product-based Anticancer Drug Discovery - Accessing Anti-Cancer Natural Products by Plant Cell Culture - Natural Products...[

Fields of interest
Cancer Research; Oncology; Pharmacology / Toxicology

Target groups
Research

Type of publication
Contributed volume

More on www.springer.com/978-1-4614-4653-8

Hardcover
2013. XII, 244 p. 94 illus., 17 in color. (Cancer Drug Discovery and Development) 139,95 €
ISBN 978-1-4614-4653-8
Usually dispatched within 3 to 5 business days.
Neurosteroids and the Nervous System

While steroids from the periphery have profound effects on the nervous system, the nervous system also produces its own steroids de novo ("neurosteroids"). The physiological importance of neurosteroids is beginning to be understood. These steroids potentially have roles in sedative/hypnotic behavior, anxiety, learning, and memory. At the cellular level, neurosteroids affect neuronal excitability, synaptic plasticity and cell proliferation and survival. Early findings hold promise for future strategies to treat specific psychological conditions and neurological diseases. This Brief will focus on the current state of understanding of brain-derived neurosteroids.

Features
While steroids from the periphery have profound effects on the nervous system, the nervous system also produces its own steroids de novo ("neurosteroids"). The physiological importance of neurosteroids is beginning to be understood. These steroids potentially have roles in sedative/hypnotic behavior, anxiety, learning, and memory. At the cellular level, neurosteroids affect neuronal excitability, synaptic plasticity and cell proliferation and survival. Early findings hold promise for future strategies to treat specific neurological conditions and neurological diseases. This Brief will focus on the current state of understanding of brain-derived neurosteroids.

Contents
N/A

Fields of interest
Neurosciences; Neurochemistry

Target groups
Research

Type of publication
Brief


Softcover
2013. VI, 125 p. 17 illus., 6 in color. (SpringerBriefs in Neuroscience)
49,95 €
Usually dispatched within 3 to 5 business days.

Prions and Diseases

Volume 1, Physiology and Pathophysiology

Volume I highlights the association of the cellular prion protein (PrPc) with copper and zinc, the potential roles of PrPc in Alzheimer’s disease and cancers, insoluble PrPc, PMCA, molecular and cellular mechanisms of PrPsc formation and clearance, possible co-factors involved in the conversion of PrPc into PrPsc, infectious and pathogenic forms of PrP, cell biology of prions, prion strains and their interference, as well as yeast prions and their inheritable and structural traits. This unique volume will take you through the fascinating chronicle of prions in mammals, yeast, and fungi.

Features
Transmissible spongiform encephalopathies (TSE), now broadly known as prion diseases, have been recognized for nearly 300 years in animals and almost 100 years in humans. However, the nature of the transmissible agent had largely remained a mystery until Stanley Prusiner discovered the infectious isoform of the prion protein (PrP), named prion or scrapie PrP (PrPsc), in 1982. The [...] Contents
Transmissible Spongiform Encephalopathy: from the High Middle Ages to Daniel Carlton Gajdusek.- The Rich Chemistry of the Copper and Zinc Sites in Cellular Prion Protein.- Role of Cellular Prion Protein in the Amyloid-β Oligomer Pathophysiology of Alzheimer’s Disease.- Cellular Prion Protein and Cancers.- Insoluble Cellular Prion Protein.— Protein Misfolding Cyclic Amplification.— Codafactor Involvement in Prion Propagation.— Prion Protein Conversion and Lipids.— New Perspectives on Prion Conversion: Introducing a Mechanism of Deformed Templating.— Infectious and Pathogenic Forms of Prion[...]

Fields of interest
Neurosciences; Human Physiology; Neurology; Protein Science; Animal Physiology; Biochemistry

Target groups
Research

Type of publication
Contributed volume

More on www.springer.com/978-1-4614-5304-8

Hardcover
2013. IX, 241 p. 36 illus., 28 in color.
139,95 €
ISBN 978-1-4614-5304-8
Usually dispatched within 3 to 5 business days.

Volume 2, Animals, Humans and the Environment

Volume II features a variety of animal and human prion diseases, including the newly identified atypical forms of bovine spongiform encephalopathy and scrapie in animals, and variably protease-sensitive prionopathy in humans. This new edition provides the most recent advances in understanding of prion diseases, including advanced techniques for early diagnosis, and potential strategies for therapeutic intervention. This unique volume will take you through the fascinating chronicle of prions in mammals, yeast, and fungi.

Features
Transmissible spongiform encephalopathies (TSE), now broadly known as prion diseases, have been recognized for nearly 300 years in animals and almost 100 years in humans. However, the nature of the transmissible agent had largely remained a mystery until Stanley Prusiner discovered the infectious isoform of the prion protein (PrP), named prion or scrapie PrP (PrPsc), in 1982. The [...] Contents
Neurosciences; Human Physiology; Neurology; Protein Science; Animal Physiology; Biochemistry

Target groups
Research

Type of publication
Contributed volume

More on www.springer.com/978-1-4614-5337-6

Hardcover
2013. IX, 295 p. 31 illus., 20 in color.
149,95 €
Usually dispatched within 3 to 5 business days.
Prominin-1 (CD133): New Insights on Stem & Cancer Stem Cell Biology

Prominin-1 or otherwise known as CD133 is a glycoprotein that is present in humans and mice. Since the first description of prominin in 1997, in mouse neuroepithelial cells and in human hematopoietic stem cells as AC133 antigen, this molecule has aroused a large interest especially, as a stem cell marker, that gave rise to an ever growing body of publications and more recently its expression in cancer stem cells. Controversies as to its role as a cancer stem and its detection in different models, as well as its use as a prognostic marker have emerged. Yet, beyond its use as a stem cell and cancer stem cell marker, prominin-1/CD133 displays unique biological features and appears[...]

Features

Since its first description fifteen years ago as a novel antigen of neural and hematopoietic stem cells, prominin-1 (alias CD133) has emerged concomitantly with stem and cancer stem cell research as an essential cell surface marker allowing identification and isolation of cells with stem cell properties. Although the physiological function of prominin-1 and the other members of prominin family remains[...]

Contents


Fields of interest

Cancer Research; Stem Cells; Medical Microbiology; Protein Science; Cell Biology

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-1-4614-5893-7

Hardcover


Retinal Degeneration

Methods and Protocols

Over the past decades, knowledge about the cellular and molecular basis underlying the visual process has remarkably increased. In Retinal Degeneration: Methods and Protocols, expert researchers in the field provide a guide of relevant and state-of-the-art methods for studying retinal homeostasis and disease. These include methods and techniques for addressing cell culture systems and animal models of disease, their generation, their phenotypic and molecular characterization as well as their use in therapeutistic approaches to the retina. Written in the highly successful Methods in Molecular Biology” series format, chapters include introductions to their respective topics, lists of the[...]

Features

Over the past decades, knowledge about the cellular and molecular basis underlying the visual process has remarkably increased. In Retinal Degeneration: Methods and Protocols, expert researchers in the field provide a guide of relevant and state-of-the-art methods for studying retinal homeostasis and disease. These include methods and techniques for addressing cell culture systems and animal models[...]

Contents


Fields of interest

Molecular Medicine; Ophthalmology

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-1-62703-079-3

Hardcover


Role of the Transcriptome in Breast Cancer Prevention

This book will provide the latest advances in molecular and cellular biology for establishing the foundation of a complete understanding of the mechanisms of breast differentiation leading to cancer prevention. The authors are based on the epidemiological evidence indicating that early first full term pregnancy is a protective factor in human against breast cancer and they have used this paradigm and developed experimental systems in both in vivo and in vitro that have demonstrated mechanistically how the differentiation at the organ and cellular level takes place. This knowledge has provided the blueprint for developing better understanding of the basis of cancer prevention. The[...]

Contents


Fields of interest

Cancer Research; Pharmacology / Toxicology

Target groups

Research

Type of publication

Monograph

More on www.springer.com/978-1-4614-4883-9

Hardcover

Stimulation and Inhibition of Neurons

Activation, inhibition, or destruction of the nervous system or its component parts as a vital tool for the investigation of function has undergone remarkable development; indeed, new approaches have been developed that allow for these actions to be used as therapeutic tools. In Stimulation and Inhibition of Neurons, experts in the field provide an overview of modern methods for generating lesions as well as for stimulating and inhibiting neural pathways. Many new techniques such as optogenetics and the use of the in situ perfused preparation are examined, while, in other sections, the use and validity of more well-known approaches are reassessed. Written for the Neurontools...[

Features

Activation, inhibition, or destruction of the nervous system or its component parts as a vital tool for the investigation of function has undergone remarkable development; indeed, new approaches have been developed that allow for these actions to be used as therapeutic tools. In Stimulation and Inhibition of Neurons, experts in the field provide an overview of modern methods for generating lesions as well as for stimulating and inhibiting neural pathways. Many new techniques such as optogenetics and the use of the in situ perfused preparation are examined, while, in other sections, the use and validity of more well-known approaches are reassessed. Written for the Neurontools...[

Contents


Fields of interest

Neurosciences; Human Physiology

Target groups

Professional/practitioner

Type of publication

Contributed volume


Hardcover

2013. XII, 319 p. 73 illus., 15 in color. (Neuromethods, Vol. 28)

109.95 €


Usually dispatched within 3 to 5 business days.

P.C. Barrow, GTox Lab, Evreux, France (Ed.)

Teratogenicity Testing

Methods and Protocols

Teratology is the study of chemical-induced birth defects. This book is a comprehensive guide to the procedures and methods commonly employed in the safety testing of all classes of chemical for teratogenicity (also referred to as embryotoxicity, developmental toxicity or prenatal toxicity). The various international regulatory requirements are explained in detail, in order that the reader may perform all of the necessary studies for the successful registration or marketing authorisation of a new pharmaceutical, industrial chemical, crop protection product or food additive. Written in the highly successful Methods in Molecular Biology® series format, each chapter gives clear complete...[

Features

Teratology is the study of chemical-induced birth defects. This book is a comprehensive guide to the procedures and methods commonly employed in the safety testing of all classes of chemical for teratogenicity (also referred to as embryotoxicity, developmental toxicity or prenatal toxicity). The various international regulatory requirements are explained in detail, in order that the reader may perform all...[

Contents


Fields of interest

Pharmacology / Toxicology

Target groups

Professional/practitioner

Type of publication

Contributed volume

More on www.springer.com/978-1-62703-130-1

Hardcover


124,95 €

ISBN 978-1-62703-130-1

Usually dispatched within 3 to 5 business days.

E. Zudaire, National Cancer Institute, Bethesda, MD, USA; F. Cutitta, National Cancer Institute, Bethesda, MD, USA (Eds.)

The Textbook of Angiogenesis and Lymphangiogenesis: Methods and Applications

Angiogenesis and lymphangiogenesis have become attractive targets for drug therapy because of their key roles in a broad spectrum of pathological disease states ranging from macular degeneration to tumor growth and metastasis. A substantial increase in the research effort over the past decade has deepened our understanding of the basic mechanisms underlying angiogenesis and lymphangiogenesis, promoting the development of promising therapeutics for the clinical management of vascular-related diseases. These extraordinary advancements have been built upon a vast array of diverse analytical techniques developed globally throughout the field. Over the years, these methods have evolved to...[

Features

Angiogenesis and lymphangiogenesis have become attractive targets for drug therapy because of their key roles in a broad spectrum of pathological disease states ranging from macular degeneration to tumor growth and metastasis. A substantial increase in the research effort over the past decade has deepened our understanding of the basic mechanisms underlying angiogenesis and lymphangiogenesis, promoting the...[

Contents

Preface.- I. The in vitro endothelial cell tube formation assay in 3D culture on gelled basement membrane extract.- 2 Using Polymers to Build Three Dimensional Coculture Systems for Angiogenesis.- 3 Electron microscopy in angiogenesis research.- 4 Methods to Assess Vascular Permeability During Angiogenic Processes.- 5 Quantitative Methods To Study Adipose Angiogenesis.- 6 Methodologic approaches to investigate vascular tube morphogenesis and maturation events in 3D extracellular matrices in vitro and in vivo.- 7 Preparation and analysis of aortic ring cultures for the study of angiogenesis ex...[

Fields of interest

Biomedicine (general); Cancer Research; Angiology; Cell Culture

Target groups

Graduate

Type of publication

Graduate/advanced undergraduate textbook

More on www.springer.com/978-94-007-4580-3

Hardcover


74,95 €

ISBN 978-94-007-4580-3

Usually dispatched within 3 to 5 business days.
Antioxidant Properties of Spices, Herbs and Other Sources

The scientific world and modern society today is experiencing the dawning of an era of herbal medicine. Extensive research has shown that aromatic plants are important anti-inflammatory, antioxidant, anti aging and immune boosting delectable foods, with the magic and miracle to boost our immune system providing us with extended and an improved quality of life. Apart from making bland recipes into welcoming or interesting victories, herbs and spices have stirred the minds of the research community to look deeper into its active components from a functional perspective. It is essential to present the scientific and medicinal aspect of herbs and spices together with the analysis of […]

Features
Most natural antioxidants are common food components and have been widely used in diets for thousands of years. Recently, much focus has been given to the involvement of active oxygen and free radicals in aging and in disease processes like heart disease, inflammation, arthritis, immune system impairment and cancer. The importance of these antioxidants present in foods has been well appreciated for both […]

Contents

Fields of interest
Food Science; Nutrition; Health Promotion and Disease Prevention; Plant Biochemistry

Target groups
Professional/practitioner

Type of publication
Monograph

More on www.springer.com/978-1-4614-5655-1

Bacterial Communication in Foods

It is generally assumed that microorganisms synthesize, release, detect and respond to small signaling hormone-like molecules. These molecules are used for a process termed “quorum sensing” (QS), a phenomenon that enables bacteria to sense when the minimal number of cells, or “quorum,” is achieved for a concerted response to be initiated. Words such as “language” and “behavior” are frequently used to depict QS in the literature. More simply put, language and cross-talk between bacteria, and between bacteria and animal or plant hosts, determines the behavior (e.g., beneficial or pathogenic effects) of bacteria. Currently, the major concern is to understand and decode this language.[…]

Features
It is generally assumed that microorganisms synthesize, release, detect and respond to small signaling hormone-like molecules. These molecules are used for a process termed “quorum sensing” (QS), a phenomenon that enables bacteria to sense when the minimal number of cells, or “quorum,” is achieved for a concerted response to be initiated. Words such as “language” and “behavior” are frequently used to depict QS[…]

Contents

Fields of interest
Food Science; Bacteriology; Microbiology

Target groups
Professional/practitioner

Type of publication
Monograph

More on www.springer.com/978-1-4614-5655-1

Softcover
**Chemical Constituents of Bryophytes**

Bio- and Chemical Diversity, Biological Activity, and Chemosystematics

For some 50 years, Professor Asakawa and his group have focused their research on the chemical constituents of bryophytes and have found that these plants contain large numbers of secondary metabolites, such as terpenoids, acetylglucosins, and aromatic compounds representative of many new skeletons, which exhibit interesting biological activities. Individual terpenoids, when found as constituents of both a bryophyte and a higher plant, tend to occur in different enantiomeric forms. Professor Asakawa has covered the literature on bryophytes in two earlier volumes of Progress in the Chemistry of Organic Natural Products, namely, Volumes 42 (1982) and 65 (1995). Since the publication of the [...]
Polymer Physics

A Molecular Approach

A molecular view on the fundamental issues in polymer physics is provided with an aim at students in chemistry, chemical engineering, condensed matter physics and material science courses. An updated translation by the author, a renowned Chinese chemist, it has been proven to be an effective source of learning for many years. Up-to-date developments are reflected throughout the work in this concise presentation of the topic. The author aims at presenting the subject in an efficient manner, which makes this particularly suitable for teaching polymer physics in settings where time is limited, without having to sacrifice the extensive scope that this topic demands.

Features

This book provides a molecular view on the fundamental issues in polymer physics with the aim of meeting the needs of students on chemistry, chemical engineering, condensed matter physics, and material science courses. It has already proved to be an extremely effective learning resource, and in this updated English version, the author, a renowned Chinese chemist, covers the most recent developments in the [-].

Contents


Fields of interest

Polymer Sciences; Thermodynamics; Characterization and Evaluation of Materials; Continuum Mechanics and Mechanics of Materials

Target groups

Research

Type of publication

Monograph

More on www.springer.com/978-3-7091-0669-3

Hardcover

2013. XII, 245 p. 145 illus., 10 in color. ISBN 978-3-7091-0669-3

Usually dispatched within 3 to 5 business days.

Compliance and Evaluation of Materials; Continuum Fields of interest

Separation and Polymer Crystallization.- Interplay Between Phase of Polymer Solutions.- Polymer Phase Separation.- Flow.- Chain Assembly: Statistical Thermodynamics of Polymer Solutions.- Polymer Phase Separation.- Polymer Crystallization.- Interplay Between Phase Separation and Polymer Crystallization.

AI Approaches to the Complexity of Legal Systems - Models and Ethical Challenges for Legal Systems, Legal Language and Legal Ontologies, Argumentation and Software Agents

International Workshop AICOL-III, Held as Part of the 25th IVR Congress, Frankfurt am Main, Germany, August 15-16, 2011. Revised Selected Papers

The inspiring idea of this workshop series, Artificial Intelligence Approaches to the Complexity of Legal Systems (AICOL), is to develop models of legal knowledge concerning organization, structure, and content in order to promote mutual understanding and communication between different systems and cultures. Complexity and complex systems describe recent developments in AI and law, legal theory, argumentation, the Semantic Web, and multi-agent systems. Multisystem and multilingual ontologies provide an important opportunity to integrate different trends of research in AI and law, including comparative legal studies. Complexity theory, graph theory, game theory, and any other [...]

Features

The inspiring idea of this workshop series, Artificial Intelligence Approaches to the Complexity of Legal Systems (AICOL), is to develop models of legal knowledge concerning organization, structure, and content in order to promote mutual understanding and communication between different systems and cultures. Complexity and complex systems describe recent developments in AI and law, legal theory, argumentation, the Semantic Web, and multi-agent systems. Multisystem and multilingual ontologies provide an important opportunity to integrate different trends of research in AI and law, including comparative legal studies. Complexity theory, graph theory, game theory, and any other [...]

Contents

AI and law.- legal theory.- argumentation.- the Semantic Web.- multi-agent systems.

Fields of interest

Artificial Intelligence (incl. Robotics); Information Systems Applications (incl.Internet); Data Mining and Knowledge Discovery; Computer Communication Networks; Computers and Society; Law (general)

Target groups

Research

Type of publication

Proceedings

More on www.springer.com/978-3-642-35730-5

Softcover


Usually dispatched within 3 to 5 business days.

Advanced Data Mining and Applications

8th International Conference, ADMA 2012, Nanjing, China, December 15-18, 2012, Proceedings

This book constitutes the refereed proceedings of the 8th International Conference on Advanced Data Mining and Applications, ADMA 2012, held in Nanjing, China in December 2012. The 32 regular papers and 32 short papers presented in this volume were carefully reviewed and selected from 168 submissions. They are organized in topical sections named: social media mining; clustering; machine learning: algorithms and applications; classification; prediction, regression and recognition; optimization and approximation; mining time series and streaming data; Web mining and semantic analysis; data mining applications; search and retrieval; information recommendation and hiding; outlier [...]

Features

This book constitutes the refereed proceedings of the 8th International Conference on Advanced Data Mining and Applications, ADMA 2012, held in Nanjing, China, in December 2012. The 32 regular papers and 32 short papers presented in this volume were carefully reviewed and selected from 168 submissions. They are organized in topical sections named: social media mining; clustering; machine learning: algorithms and applications; classification; prediction, regression and recognition; optimization and approximation; mining time series and streaming data; Web mining and semantic analysis; data mining applications; search and retrieval; information recommendation and hiding; outlier [...]

Contents


Fields of interest

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

Target groups

Research

Type of publication

Proceedings

More on www.springer.com/978-3-642-35526-4

Softcover


Usually dispatched within 3 to 5 business days.
Advanced Machine Learning Technologies and Applications

First International Conference, AMLTA 2012, Cairo, Egypt, December 8-10, 2012, Proceedings

This book constitutes the refereed proceedings of the First International Conference on Advanced Machine Learning Technologies and Applications, AMLTA 2012, held in Cairo, Egypt, in December 2012. The 58 full papers presented were carefully reviewed and selected from 99 initial submissions. The papers are organized in topical sections on rough sets and applications, machine learning in pattern recognition and image processing, machine learning in multimedia computing, bioinformatics and chemoinformatics, data classification and clustering, cloud computing and recommender systems.

Features

This book constitutes the refereed proceedings of the First International Conference on Advanced Machine Learning Technologies and Applications, AMLTA 2012, held in Cairo, Egypt, in December 2012. The 58 full papers presented were carefully reviewed and selected from 99 initial submissions. The papers are organized in topical sections on rough sets and applications, machine learning in pattern recognition and image processing, machine learning in multimedia computing, bioinformatics and chemoinformatics, data classification and clustering, cloud computing and recommender systems.

Contents

Agent Based Simulation for a Sustainable Society and Multiagent Smart Computing

International Workshops, PRIMA 2011, Wollongong, Australia, November 14, 2011, Revised Selected Papers

This book constitutes the refereed proceedings of the two workshops held at the 14th International Conference on Principles and Practice of Multi-Agent Systems, PRIMA 2011, held in Wollongong, Australia, in November. The workshops were, Workshop on Agent Based Simulation for a Sustainable Society (ABSSS 2011) and International Workshop on Multi-Agent Smart Computing (MASmart 2011). The 8 papers presented were carefully reviewed and selected from various submissions. The papers cover topics from agent based simulation for a sustainable society and on multi-agent smart computing.

Features
This book constitutes the refereed proceedings of the two workshops held at the 14th International Conference on Principles and Practice of Multi-Agent Systems, PRIMA 2011, held in Wollongong, Australia, in November. The workshops were, Workshop on Agent Based Simulation for a Sustainable Society (ABSSS 2011) and International Workshop on Multi-Agent Smart Computing (MASmart 2011). The 8 papers presented were [...]  

Fields of interest
Artificial Intelligence (incl. Robotics); Simulation and Modeling; e-commerce / e-business; Computer Applications; Computers and Society

Target groups
Research

Type of publication
Proceedings

More on www.springer.com/978-3-642-35611-7

Softcover
2012, X, 125 p. 43 illus. (Lecture Notes in Artificial Intelligence, Vol. 7580)
46,00 €
ISBN 978-3-642-35611-7

Usually dispatched within 3 to 5 business days.

Ambient Assisted Living and Home Care

4th International Workshop, IWAAL 2012, Vitoria-Gasteiz, Spain, December 3-5, 2012, Proceedings

This book constitutes the refereed proceedings of the 4th International Workshop on Ambient Assisted Living, IWAAL 2012, held in Vitoria-Gasteiz, Spain, in December 2012. The 58 research papers were carefully reviewed and selected from various submissions. The papers are organized in topical sections such as intelligent healthcare and home-care environments, AAL environments, sensing and monitoring, human-computer interaction at assistive environments, semantic modeling for realizing AAL, and application domains.

Features
This book constitutes the refereed proceedings of the 4th International Workshop on Ambient Assisted Living, IWAAL 2012, held in Vitoria-Gasteiz, Spain, in December 2012. The 58 research papers were carefully reviewed and selected from various submissions. The papers are organized in topical sections such as intelligent healthcare and home-care environments, AAL environments, sensing and monitoring. [...]  

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

Target groups
Research

Type of publication
Proceedings

More on www.springer.com/978-3-642-35394-9

Softcover
62,00 €
ISBN 978-3-642-35394-9

Usually dispatched within 3 to 5 business days.

Artificial Evolution

10th International Conference, Evolution Artificielle, EA 2011, Angers, France, October 24-26, 2011, Revised Selected Papers

This book constitutes selected best papers from the 10th International Conference on Artificial Evolution, EA 2011, held in Angers, France, in October 2011. Initially, 33 full papers and 10 post papers were carefully reviewed and selected from 64 submissions. This book presents the 19 best papers selected from these contributions. The papers are organized in topical sections on ant colony optimization; multi-objective optimization; analysis; implementation and robotics; combinatorial optimization; learning and parameter tuning; new nature inspired models; probabilistic algorithms; theory and evolutionary search; and applications.

Features
This book constitutes selected best papers from the 10th International Conference on Artificial Evolution, EA 2011, held in Angers, France, in October 2011. Initially, 33 full papers and 10 post papers were carefully reviewed and selected from 64 submissions. This book presents the 19 best papers selected from these contributions. The papers are organized in topical sections on ant colony optimization; [...]  

Contents

Fields of interest
Artificial Intelligence (incl. Robotics); Computation by Abstract Devices; Algorithm Analysis and Problem Complexity; Information Storage and Retrieval; Numeric Computing; Pattern Recognition

Target groups
Research

Type of publication
Proceedings

More on www.springer.com/978-3-642-35532-5

Softcover
2012, XVI, 229 p. 65 illus. (Theoretical Computer Science and General Issues, Vol. 7401)
46,00 €
ISBN 978-3-642-35532-5

Usually dispatched within 3 to 5 business days.
Artificial General Intelligence


This book constitutes the refereed proceedings of the 5th International Conference on Artificial General Intelligence, AGI 2012, held in Oxford, UK, in December 2012. The 34 revised full papers presented together with 4 invited keynote lectures were carefully reviewed and selected from 80 submissions. The papers are written by leading scientists involved in research and development of AI systems possessing general intelligence at the human level and beyond; with a special focus on humanoid robotics and AGI, cognitive robotics, creativity and AGI, the future evolution of advanced AGIs, and the dynamics of AGI goal systems.

Features

This book constitutes the refereed proceedings of the 5th International Conference on Artificial General Intelligence, AGI 2012, held in Oxford, UK, in December 2012. The 34 revised full papers presented together with 4 invited keynote lectures were carefully reviewed and selected from 80 submissions. The papers are written by leading scientists involved in research and development of AI systems possessing general intelligence at the human level and beyond; with a special focus on humanoid robotics and AGI, cognitive robotics, creativity and AGI, the future evolution of advanced AGIs, and the dynamics of AGI goal systems.

Contents

Research and development of AI systems possessing general intelligence at the human level and beyond; special focus on humanoid robotics and AGI; cognitive robotics, creativity and AGI; the future evolution of advanced AGIs; dynamics of AGI goal systems.

Fields of interest

Artificial Intelligence (incl. Robotics); Mathematical Logic and Formal Languages; Pattern Recognition; Algorithm Analysis and Problem Complexity; Information Systems Applications (incl. Internet); Software Engineering

Target groups

Research

Type of publication

Proceedings

More on www.springer.com/978-3-642-35505-9

Softcover

2012, XII, 381 p. 121 illus. (Lecture Notes in Artificial Intelligence, Vol. 7716)
54,00 €
ISBN 978-3-642-35505-9

Usually dispatched within 3 to 5 business days.

Big Data Analytics

First International Conference, BDA 2012, New Delhi, India, December 24-26, 2012. Proceedings

This book constitutes the refereed proceedings of the First International Conference on Big Data Analytics, BDA 2012, held in New Delhi, India, in December 2012. The 5 regular papers and 5 short papers presented were carefully reviewed and selected from 42 submissions. The volume also contains two tutorial papers in the section perspectives on big data analytics. The regular contributions are organized in topical sections on: data analytics applications; knowledge discovery through information extraction; and data models in analytics.

Features

This book constitutes the refereed proceedings of the First International Conference on Big Data Analytics, BDA 2012, held in New Delhi, India, in December 2012. The 5 regular papers and 5 short papers presented were carefully reviewed and selected from 42 submissions. The volume also contains two tutorial papers in the section perspectives on big data analytics. The regular contributions are organized in [...]
Cognitive Behavioural Systems

COST 2102 International Training School, Dresden, Germany, February 21-26, 2011, Revised Selected Papers

This book constitutes refereed proceedings of the COST 2102 International Training School on Cognitive Behavioural Systems held in Dresden, Germany, in February 2011. The 39 revised full papers presented were carefully reviewed and selected from various submissions. The volume presents new and original research results in the field of human-machine interaction inspired by cognitive behavioural human-human interaction features. The themes covered are on cognitive and computational social information processing, emotional and social believable Human-Computer Interaction (HCl) systems, behavioural and contextual analysis of interaction, embodiment, perception, linguistics, semantics and [...] Features

This book constitutes refereed proceedings of the COST 2102 International Training School on Cognitive Behavioural Systems held in Dresden, Germany, in February 2011. The 39 revised full papers presented were carefully reviewed and selected from various submissions. The volume presents new and original research results in the field of human-machine interaction inspired by cognitive behavioural human-human [...] Contents

cognitive and computational social information processing.- emotional and social believable Human-Computer Interaction (HCl) systems.- behavioural and contextual analysis of interaction.- embodiment, perception, linguistics, semantics and sentiment analysis in dialogues and interactions.- algorithmic and computational issues for the automatic recognition and synthesis of emotional states. Fields of interest

Models and Principles; User Interfaces and Human Computer Interaction; Artificial Intelligence (incl. Robotics); Information Storage and Retrieval; Computer Imaging, Vision, Pattern Recognition and Graphics; Probability and Statistics in Computer Science Target groups

Research Type of publication

Proceedings

More on www.springer.com/978-3-642-34583-8 Softcover


M. Vidyasagar, The University of Texas at Dallas, Richardson, TX, USA

Computational Cancer Biology

An Interaction Network Approach

This brief introduces people with a basic background in probability theory to various problems in cancer biology that are amenable to analysis using methods of probability theory and statistics. The title mentions “cancer biology” and the specific illustrative applications reference cancer data but the methods themselves are more broadly applicable to all aspects of computational biology. Aside from providing a self-contained introduction to basic biology and to cancer, the brief describes four specific problems in cancer biology that are amenable to the application of probability-based methods. The application of these methods is illustrated by applying each of them to actual data [...] Features

This brief introduces readers to various problems in cancer biology that are amenable to analysis using methods of probability theory and statistics, building on only a basic background in these two topics. Aside from providing a self-contained introduction to several aspects of basic biology and to cancer, as well as to the techniques from statistics most commonly used in cancer biology; the [...] Contents


Fields of interest

Computational Biology / Bioinformatics; Physiological, Cellular and Medical Topics; Control; Statistics for Life Sciences, Medicine, Health Sciences; Systems Biology; Cancer Research Target groups

Research Type of publication

Brief

More on www.springer.com/978-1-4471-4750-3 Softcover

2012, XII, 80 p. 11 illus. in color. (SpringerBriefs in Control, Automation and Robotics) 39,95 € ISBN 978-1-4471-4750-3 Usually dispatched within 3 to 5 business days.

Computational Geometry

XIV Spanish Meeting on Computational Geometry, EGC 2011, Dedicated to Ferran Hurtado on the Occasion of His 60th Birthday, Alcalá de Henares, Spain, June 27-30, 2011, Revised Selected Papers

This Festschrift volume is published in honor of Ferran Hurtado on the occasion of his 60th birthday; it contains extended versions of selected communications presented at the XIV Spanish Meeting on Computational Geometry, held at the University of Alcalá, Spain, in June 2011. Ferran Hurtado has played a central role in the Spanish community of Computational Geometry since its very beginning, and the quantity and quality of the international participants in the conference is an indisputable proof of his relevance in the international level. The 26 revised full papers were carefully reviewed and selected from numerous submissions. The papers present original research in computational [...] Features

This Festschrift volume is published in honor of Ferran Hurtado on the occasion of his 60th birthday; it contains extended versions of selected communications presented at the XIV Spanish Meeting on Computational Geometry, held at the University of Alcalá, Spain, in June 2011. Ferran Hurtado has played a central role in the Spanish community of Computational Geometry since its very beginning, and the [...] Contents


Algorithm Analysis and Problem Complexity; Discrete Mathematics in Computer Science; Computer Graphics; Data Structures; Computation by Abstract Devices; Computer Communication Networks Target groups

Research Type of publication

Proceedings

More on www.springer.com/978-3-642-34190-8 Softcover

Computer Applications for Communication, Networking, and Digital Contents


This volume constitutes the refereed proceedings of the International Conferences, FGIT and DCA 2012, held as part of the Future Generation Information Technology Conference, FGIT 2012, Gangwondo, Korea, in December 2012. The papers presented were carefully reviewed and selected from numerous submissions and focus on the various aspects of future generation communication and networking, and digital contents and applications.

Features
This volume constitutes the refereed proceedings of the International Conferences, FGIT and DCA 2012, held as part of the Future Generation Information Technology Conference, FGIT 2012, Gangwondo, Korea, in December 2012. The papers presented were carefully reviewed and selected from numerous submissions and focus on the various aspects of future generation communication and networking, and digital contents.

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

More on www.springer.com/978-3-642-35593-6

Softcover
2012, XX, 378 p. 179 illus. (Communications in Computer and Information Science, Vol. 350)
64,00 €
ISBN 978-3-642-35593-6

Usually dispatched within 3 to 5 business days.

Computer Applications for Database, Education and Ubiquitous Computing


This volume constitutes the refereed proceedings of the International Conferences, EL, DTA and UNESSST 2012, held as part of the Future Generation Information Technology Conference, FGIT 2012, Gangwondo, Korea, in December 2012. The papers presented were carefully reviewed and selected from numerous submissions and focus on the various aspects of education and learning, database theory and application and u- and e-service, science and technology.

Features
This volume constitutes the refereed proceedings of the International Conferences, EL, DTA and UNESSST 2012, held as part of the Future Generation Information Technology Conference, FGIT 2012, Gangwondo, Korea, in December 2012. The papers presented were carefully reviewed and selected from numerous submissions and focus on the various aspects of education and learning, database theory and application and u- and e-service, science and technology.

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

Target groups
Research

Type of publication
Proceedings

More on www.springer.com/978-3-642-35602-5

Softcover
2012, XVIII, 356 p. 164 illus. (Communications in Computer and Information Science, Vol. 352)
64,00 €
ISBN 978-3-642-35602-5

Usually dispatched within 3 to 5 business days.

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

More on www.springer.com/978-3-642-35685-8

Softcover
2012, XVI, 270 p. 92 illus. (Lecture Notes in Bioinformatics, Vol. 7548)
46,00 €
ISBN 978-3-642-35685-8

Usually dispatched within 3 to 5 business days.
Coordinating, Organizations, Institutions, and Norms in Agent System VII

This book constitutes the thoroughly reviewed joint post-conference proceedings of two international workshops on Coordination, Organizations, Institutions and Norms in Agent Systems, COIN/AAMAS 2011, held in Taipei, Taiwan in May 2011 and COIN@WI-IAT 2011, held in Lyon, France in August 2011. The 12 revised full papers presented were carefully selected for presentations. The papers are organized in topical sections on agent coordination, norm-aware agent reasoning, as well as norm creation and enforcement.

Contents


Computer Applications for Graphics, Grid Computing, and Industrial Environment


This volume constitutes the refereed proceedings of the International Conferences, FGCN and DCA 2012, held as part of the Future Generation Information Technology Conference, FGIT 2012, Kangwondo, Korea, in December 2012. The papers presented were carefully reviewed and selected from numerous submissions and focus on the various aspects of grid and distributed computing, industrial environment, safety and health, and computer graphics, animation, and game.

Features

This volume constitutes the refereed proceedings of the International Conferences, FGCN and DCA 2012, held as part of the Future Generation Information Technology Conference, FGIT 2012, Kangwondo, Korea, in December 2012. The papers presented were carefully reviewed and selected from numerous submissions and focus on the various aspects of grid and distributed computing, industrial environment, safety and health, and computer graphics, animation, and game.

Fields of interest

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

Target groups

Research

Type of publication

Proceedings

More on www.springer.com/978-3-642-35599-8

Softcover

2012. XVI, 348 p. 179 illus. (Communications in Computer and Information Science, Vol. 351) 64,00 €

ISBN 978-3-642-35599-8

Usually dispatched within 3 to 5 business days.

Cryptology and Network Security

11th International Conference, CANS 2012, Darmstadt, Germany, December 12-14, 2012. Proceedings

This book constitutes the refereed proceedings of the 11th International Conference on Cryptology and Network Security, CANS 2012, held in Darmstadt, Germany, in December 2012. The 22 revised full papers, presented were carefully reviewed and selected from 99 submissions. The papers are organized in topical sections on cryptanalysis; network security; cryptographic protocols; encryption; and s-box theory.

Features

This book constitutes the refereed proceedings of the 11th International Conference on Cryptology and Network Security, CANS 2012, held in Darmstadt, Germany, in December 2012. The 22 revised full papers, presented were carefully reviewed and selected from 99 submissions. The papers are organized in topical sections on cryptanalysis; network security; cryptographic protocols; encryption; and s-box theory.

Contents

Cryptanalysis.- network security.- cryptographic protocols.- encryption.- s-box theory.

Fields of interest

Data Encryption; Computer Communication Networks; Discrete Mathematics in Computer Science; Coding and Information Theory; Data Structures, Cryptology and Information Theory; Systems and Data Security

Target groups

Research

Type of publication

Proceedings

More on www.springer.com/978-3-642-35403-8

Softcover

2012. XVI, 311 p. 48 illus. (Security and Cryptology, Vol. 7712) 54,00 €

ISBN 978-3-642-35403-8

Usually dispatched within 3 to 5 business days.
Current Trends in Web Engineering


Features

This book constitutes the thoroughly refereed post-workshop proceedings and the doctoral symposium of the 12th International Conference on Web Engineering, ICWE 2012, held in Berlin, Germany, in July 2012. The volume contains four workshops and a doctoral consortium, each focusing on specific research issues that contribute to the main themes of the ICWE conference: MDWE 2012: Eighth International [...]
Digital Forensics and Cyber Crime


This book contains a selection of thoroughly refereed and revised papers from the Third International ICST Conference on Digital Forensics and Cyber Crime, ICDFCC 2011, held October 26-28 in Dublin, Ireland. The field of digital forensics is becoming increasingly important for law enforcement, network security, and information assurance. It is a multidisciplinary area that encompasses a number of fields, including law, computer science, finance, networking, data mining, and criminal justice. The 24 papers in this volume cover a variety of topics ranging from tactics of cyber crime investigations to digital forensic education, network forensics, and the use of formal methods in digital [...] [More on www.springer.com/978-3-642-35514-1]

Features

This book contains a selection of thoroughly refereed and revised papers from the Third International ICST Conference on Digital Forensics and Cyber Crime, ICDFCC 2011, held October 26-28 in Dublin, Ireland. The field of digital forensics is becoming increasingly important for law enforcement, network security, and information assurance. It is a multidisciplinary area that encompasses a number of fields, [...] [More on www.springer.com/978-3-642-35514-1]

Contents


Fields of interest

Systems and Data Security; e-commerce / e-business; Computers and Society; Management of Computing and Information Systems; Computer System Implementation; Files

Target groups

Professional/practitioner

Type of publication

Proceedings

More on www.springer.com/978-3-642-35514-1

Softcover

2012, XII, 297 p. 94 illus. (Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, Vol. 88)

46,00 €

ISBN 978-3-642-35514-1

Usually dispatched within 3 to 5 business days.

D. Frey, IRSIA/INRIA-Rennes, France; M. Raynal, IRSIA-ISTIC University de Rennes 1, France; S. Sarkar, University of Pennsylvania, Philadelphia, PA, USA; P.K. Shyamasundar, Faculty of Technology and Computer Science, Mumbai, India; P. Sinha, Ohio State University, Columbus, OH, USA (Eds.)

Distributed Computing and Networking

14th International Conference, ICDCN 2013, Mumbai, India, January 3-6, 2013. Proceedings

This book constitutes the refereed proceedings of the 14th International Conference on Distributed Computing and Networking, ICDCN 2013, held in Mumbai, India, during January 3-6, 2013. The 27 revised full papers, 5 short papers presented together with 7 poster papers were carefully reviewed and selected from 149 submissions. The papers cover topics such as distributed algorithms and concurrent data structures; integration of heterogeneous wireless and wired networks; distributed operating systems; internetworking protocols and internet applications; distributed database systems; mobile and pervasive computing, context-aware distributed systems; embedded distributed systems; next [...] [More on www.springer.com/978-3-642-35514-1]

Features

This book constitutes the refereed proceedings of the 14th International Conference on Distributed Computing and Networking, ICDCN 2013, held in Mumbai, India, during January 3-6, 2013. The 27 revised full papers, 5 short papers presented together with 7 poster papers were carefully reviewed and selected from 149 submissions. The papers cover topics such as distributed algorithms and concurrent data structures; integration of heterogeneous wireless and wired networks; distributed operating systems; internetworking protocols and internet applications; distributed database systems; mobile and pervasive computing, context-aware distributed systems; embedded distributed systems; next [...] [More on www.springer.com/978-3-642-35514-1]

Contents

Distributed algorithms and concurrent data structures.- integration of heterogeneous wireless and wired networks.- distributed operating systems.- internetworking protocols and internet applications.- distributed database systems.- mobile and pervasive computing, context-aware distributed systems.- embedded distributed systems.- next generation and converged network architectures.- experiments and performance evaluation of distributed systems.- overlay and peer-to-peer networks and services.- fault-tolerance, reliability, and availability.- home networking and services.- multi-processor [...] [More on www.springer.com/978-3-642-35514-1]

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

More on www.springer.com/978-3-642-35514-1

Softcover

2013, XX, 466 p. 121 illus. (Theoretical Computer Science and General Issues, Vol. 7730)

62,00 €

ISBN 978-3-642-35667-4

Usually dispatched within 3 to 5 business days.

F. Arbab, Center for Mathematics and Computer Science (CWI), Amsterdam, The Netherlands; P.C. Ölveczky, University of Oslo, Norway (Eds.)

Formal Aspects of Component Software

8th International Symposium, FACS 2011, Oslo, Norway, September 14-16, 2011. Revised Selected Papers

This book constitutes revised selected papers of the 8th International Workshop on Formal Aspects of Component Software, FACS 2011, held in Oslo, Norway in September 2011. The 18 full papers presented together with 3 invited talks were carefully reviewed and selected from 46 submissions. They cover the topics of formal models for software components and their interaction, design and verification methods for software components and services, formal methods and modeling languages for components and services, industrial or experience reports, and case studies, autonomic components and self-managed applications, models for QoS and other extra-functional properties (e.g., trust, [...] [More on www.springer.com/978-3-642-35514-1]

Features

This book constitutes revised selected papers of the 8th International Workshop on Formal Aspects of Component Software, FACS 2011, held in Oslo, Norway in September 2011. The 18 full papers presented together with 3 invited talks were carefully reviewed and selected from 46 submissions. They cover the topics of formal models for software components and their interaction, design and verification [...] [More on www.springer.com/978-3-642-35514-1]

Contents


Fields of interest

Software Engineering; Mathematical Logic and Formal Languages; Logics and Meanings of Programs; Programming Languages, Compilers, Interpreters; Programming Techniques; Management of Computing and Information Systems

Target groups

Research

Type of publication

Proceedings

More on www.springer.com/978-3-642-35514-1

Softcover


54,00 €

ISBN 978-3-642-35742-8

Usually dispatched within 3 to 5 business days.
Foundations of Rule Learning

Rules – the clearest, most explored and best understood form of knowledge representation – are particularly important for data mining, as they offer the best tradeoff between human and machine understandability. This book presents the fundamentals of rule learning as investigated in classical machine learning and modern data mining. It introduces a feature-based view, as a unifying framework for propositional and relational rule learning, thus bridging the gap between attribute-value learning and inductive logic programming, and providing complete coverage of most important elements of rule learning. The book can be used as a textbook for teaching machine learning, as well as for research.

Contents
- Machine Learning and Data Mining.
- Propositional Rule Learning.
- Relational Rule Learning.
- Principles of Rule Learning.
- Formal Framework for Rule Analysis.
- Features.
- Heuristics.
- Pruning of Rules and Rule Sets.
- Survey of Classification Rule Learning Systems Through the Analysis of Rule Learning Elements Used.
- Part III: Selected Topics in Predictive Induction.
- Part IV: Selected Techniques and Applications.

Fields of interest
Data Mining and Knowledge Discovery.
Artificial Intelligence (incl. Robotics).
Pattern Recognition.
Computation by Abstract Devices.
Statistics for Engineering, Physics, Computer Science, Chemistry and Earth Sciences.

Target groups
Research.

Type of publication
Graduate/advanced undergraduate textbook.

More on www.springer.com/978-3-642-35584-4

Future Generation Information Technology


This book comprises selected papers of the 4th International Conference on Future Generation Information Technology, FGIT 2012, held in Gangneung, Korea, in December 2012. The papers presented were carefully reviewed and selected from numerous submissions and focus on the various aspects of advances in information technology. They were selected from the following 11 conferences: BSBT 2012, CGAG 2012, DCA 2012, DTA 2012, EI 2012, FGCN 2012, GDC 2012, IESH 2012, IUeR 2012, MulGraB 2012, and UNESST 2012.

Features
This book comprises selected papers of the 4th International Conference on Future Generation Information Technology, FGIT 2012, held in Gangneung, Korea, in December 2012. The papers presented were carefully reviewed and selected from numerous submissions and focus on the various aspects of advances in information technology. They were selected from the following 11 conferences: BSBT 2012, CGAG 2012, DCA 2012, DTA 2012, EI 2012, FGCN 2012, GDC 2012, IESH 2012, IUeR 2012, MulGraB 2012, and UNESST 2012.

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

Target groups
Research.

Type of publication
Proceedings.

More on www.springer.com/978-3-642-35584-4

Softcover
46,00 €
ISBN 978-3-642-35584-4

Usually dispatched within 3 to 5 business days.

Future Mobile Communications

LTE Optimization and Mobile Network Virtualization

The key to a successful future mobile communication system lies in the design of its radio scheduler. One of the key challenges of the radio scheduler is how to provide the right balance between Quality of Service (QoS) guarantees and the overall system performance. Yasir Zaki proposes innovative solutions for the design of the Long Term Evolution (LTE) radio scheduler and presents several LTE radio scheduler analytical models that can be used as efficient tools for radio dimensioning. The author also introduces a novel wireless network virtualization framework and highlights the potential gains of using this framework for the future network operators. This framework enables the[...]

Features
The key to a successful future mobile communication system lies in the design of its radio scheduler. One of the key challenges of the radio scheduler is how to provide the right balance between Quality of Service (QoS) guarantees and the overall system performance. Yasir Zaki proposes innovative solutions for the design of the Long Term Evolution (LTE) radio scheduler and presents several LTE radio[...]

Fields of interest
Information Systems and Communication Service.

Target groups
Research.

Type of publication
Monograph.

More on www.springer.com/978-3-658-00807-9

Softcover
2012, XXVII, 173 p. 95 illus. (Advanced Studies Mobile Research Center Bremen, Vol. 1)
65,37 €
ISBN 978-3-658-00807-9

Usually dispatched within 3 to 5 business days.
Game Theory for Networks
Third International ICFST Conference, GameNets 2012, Vancouver, Canada, May 24-26, 2012, Revised Selected Papers

This book constitutes the thoroughly refereed post-conference proceedings of the Third International Conference on Game Theory for Networks (GameNets 2012) held in Vancouver, Canada, May 24-26, 2012. The 13 revised full papers were carefully selected from 24 submissions and are presented together with 7 invited papers. The papers focus on topics such as mechanism design, physical layer games, network mechanisms, stochastic and dynamic games, game-theoretic network models, cooperative games in networks, security games, spectrum sharing games, P2P and social networks and economics of network QoS.

Contents

Features
This book constitutes the thoroughly refereed post-conference proceedings of the Third International Conference on Game Theory for Networks (GameNets 2012) held in Vancouver, Canada, May 24-26, 2012. The 13 revised full papers were carefully selected from 24 submissions and are presented together with 7 invited papers. The papers focus on topics such as mechanism design, physical layer games, network [...]
Guide to Modeling and Simulation of Systems of Systems

This guide demonstrates how virtual build and test can be supported by the Discrete Event Systems Specification (DEVS) simulation modeling formalism, and the System Entity Structure (SES) simulation model ontology. The book examines a wide variety of Systems of Systems (SoS) problems, ranging from cloud computing systems to biological systems in agricultural food crops. Features: includes numerous exercises, examples and case studies throughout the text; presents a step-by-step introduction to DEVS concepts, encouraging hands-on practice to building sophisticated SoS models; illustrates virtual build and test for a variety of SoS applications using both commercial and open source DEVS software.

Features
Systems of systems are at the root of this century’s global challenges of economy, climate, and energy. Building and testing such systems within a virtual reality is the only workable alternative when direct real-world experimentation is potentially dangerous, costly or unethical. This Guide to Modeling and Simulation of Systems of Systems demonstrates how virtual build and test can be performed.

Contents

Fields of interest
Simulation and Modeling; System Performance and Evaluation; Management of Computing and Information Systems

Target groups
Graduate

Type of publication
Graduate/advanced undergraduate textbook


Handbook of Neuroevolution Through Erlang

Handbook of Neuroevolution Through Erlang presents both the theory behind, and the methodology of, developing a neuroevolutionary-based computational intelligence system using Erlang. With a foreword written by Joe Armstrong, this handbook offers an extensive tutorial for creating a state of the art Topology and Weight Evolving Artificial Neural Network (TWEANN) platform. In a step-by-step format, the reader is guided from a single simulated neuron to a complete system. By following these steps, the reader will be able to use novel technology to build a TWEANN system, which can be applied to Artificial Life simulation, and Forex trading. Because of Erlang’s architecture, it perfectly fulfills the requirements.

Features
Handbook of Neuroevolution Through Erlang presents both the theory behind, and the methodology of, developing a neuroevolutionary-based computational intelligence system using Erlang. With a foreword written by Joe Armstrong, this handbook offers an extensive tutorial for creating a state of the art Topology and Weight Evolving Artificial Neural Network (TWEANN) platform. In a step-by-step format, the...

Contents
Introduction: Applications & Motivations.-Introduction to Neural Networks.-Introduction to Evolutionary Computation.-Introduction to Neuroevolutionary Methods.-The Unintentional Neural Network Programming Language.-Developing a Feed Forward Neural Network.-Adding the "Stochastic Hill-Climber" Learning Algorithm.-Developing a Simple Neuroevolutionary Platform.-Testing the Neuroevolutionary System.-DXNN: A Case Study.-Decoupling & Modularizing Our Neuroevolutionary Platform.-Keeping Track of Important Population and Evolutionary Stats.-The Benchmark.-Creating the Two...

Fields of interest
Software Engineering / Programming and Operating Systems; Artificial Intelligence (incl. Robotics); Computational Biology / Bioinformatics

Target groups
Professional/practitioner

Type of publication
Handbook

More on www.springer.com/978-1-4614-4462-6

Hardcover

Usually dispatched within 3 to 5 business days.

Human-Computer Interaction, Tourism and Cultural Heritage

Second International Workshop, HCITOCH 2011, Cordoba, Argentina, September 14-15, 2011, Revised Selected Papers

This book constitutes the refereed proceedings of the Second International Workshop on Human-Computer Interaction, Tourism and Cultural Heritage, HCITOCH 2011, held in Córdoba, Argentina, in September 2011. The 14 revised full papers presented were carefully reviewed and selected from various submissions. The volume is intended to be a meeting point of all those who freely wish to boost and perfect the set of strategies and techniques to improve the human-computer interaction, tourism, and cultural heritage.

Features
This book constitutes the refereed proceedings of the Second International Workshop on Human-Computer Interaction, Tourism and Cultural Heritage, HCITOCH 2011, held in Córdoba, Argentina, in September 2011. The 14 revised full papers presented were carefully reviewed and selected from various submissions. The volume is intended to be a meeting point of all those who freely wish to boost and perfect the set of...

Contents
local tourism and cultural heritage internalization.-emotion and communicability in e-culture applications.-the expansion era of the communicability.-conceptual integration of usability and communicability for the interface maintenance of e-learning type collaborative systems.-trichotomic analysis.-the expansion era of the communicability.-emotion and communicability in e-culture applications.-conceptual integration of usability and communicability for the interface maintenance of e-learning type collaborative systems.

Fields of interest
User Interfaces and Human Computer Interaction; Information Systems Applications (incl.Internet); Information Storage and Retrieval; Computer Appl in Arts and Humanities; Computers and Society

Target groups
Research

Type of publication
Proceedings

More on www.springer.com/978-3-642-33943-1

Softcover

Usually dispatched within 3 to 5 business days.
Information Flow Based Security Control Beyond RBAC

How to enable fine-grained security policy enforcement in business processes beyond limitations of role-based access control (RBAC)

Role-based access control (RBAC) is a widely used technology to control information flows as well as control flows within and between applications in compliance with restrictions implied by security policies, in particular, to prevent disclosure of information or access to resources beyond restrictions defined by those security policies. Since RBAC only provides the alternatives of either granting or denying access, more fine-grained control of information flows such as "granting access to information provided that it will not be disclosed to targets outside our organisation during further processing" is not possible. In business processes, in particular those spanning several [...] Features

The book shows a way of providing more refined methods of information flow control than those offered by role-based access control (RBAC). For granting access to information or resources, former or further information flow in a business process requesting this access is taken into account. The methods proposed are comparatively easy to apply and have been proven to be largely machine-executable by a [...] Contents


Fields of interest

Systems and Data Security; Data Structures; Coding and Information Theory

Target groups

Professional/practitioner

Type of publication

Professional book

More on www.springer.com/978-3-8348-2617-6

Softcover

2012. XXI, 161 p. 25 illus. (IT im Unternehmen, Vol. 1) 39,95 €

ISBN 978-3-8348-2617-6

Online orders shipping within 2-3 days.

Information Retrieval Technology


This book constitutes the refereed proceedings of the 8th Information Retrieval Societies Conference, AIRS 2012, held in Tianjin, China, in December 2012. The 22 full papers and 26 poster presentations included in this volume were carefully reviewed and selected from 77 submissions. They are organized in topical sections named: IR models; evaluation and user studies; NLP for IR; machine learning and data mining; social media; IR applications; multimedia indexing; collaborative and federated search; and the poster session.

Features

This book constitutes the refereed proceedings of the 8th Information Retrieval Societies Conference, AIRS 2012, held in Tianjin, China, in December 2012. The 22 full papers and 26 poster presentations included in this volume were carefully reviewed and selected from 77 submissions. They are organized in topical sections named: IR models; evaluation and user studies; NLP for IR; machine learning and data [...] Contents

Session 1: IR Models.— Exploring and Exploiting Proximity Statistic for Information Retrieval Model.— A Category-integrated Language Model for Question Retrieval in Community Question Answering.— Session 2: Evaluation and User Studies.— The Reusability of a Diversified Search Test Collection.— One Click One Revisited: Enhancing Evaluation Based on Information Units.— A Comparison of Action Transitions in Individual and Collaborative Exploratory Web Search.— Session 3: NLP for IR.— Query-Oriented Keyphrase Extraction.— Using Lexical and Thematic Knowledge for Name Disambiguation.— Sells[...]

Fields of interest

Information Storage and Retrieval; Information Systems Applications (incl.Internet); Algorithm Analysis and Problem Complexity; Data Structures; Data Storage Representation; Probability and Statistics in Computer Science

Target groups

Research

Type of publication

Proceedings

More on www.springer.com/978-3-642-35340-6

Softcover


ISBN 978-3-642-35340-6

Usually dispatched within 3 to 5 business days.
Iris Biometrics
From Segmentation to Template Security

Iris Biometrics: From Segmentation to Template Security provides critical analysis, challenges and solutions on recent iris biometric research topics, including image segmentation, image compression, watermarking, advanced comparators, template protection and more. Open source software is also provided on a dedicated website which includes feature extraction, segmentation and matching schemes applied in this book to foster scientific exchange. Current state-of-the-art approaches accompanied by comprehensive experimental evaluations are presented as well. This book has been designed as a secondary text book or reference for researchers and advanced-level students in computer science.[...]

Features
Iris Biometrics: From Segmentation to Template Security provides critical analysis, challenges and solutions on recent iris biometric research topics, including image segmentation, image compression, watermarking, advanced comparators, template protection and more. Open source software is also provided on a dedicated website which includes feature extraction, segmentation and matching schemes applied in[...]

Contents

Fields of interest
Biometrics; Pattern Recognition; Systems and Data Security

Target groups
Research

Type of publication
Monograph

More on www.springer.com/978-1-4614-5570-7

Hardcover
2013, XXII, 358 p., 177 illus. (Advances in Information Security, Vol. 59)

94,95 €

Usually dispatched within 3 to 5 business days.

Lineare Algebra für die Informatik
Vektorräume, Gleichungssysteme, Codierung, Quantenalgorithmen

Internet, Soziale Netzwerke, Spiele, Smartphones, DVDs, digitaler Rundfunk und digitales Fernsehen funktionieren nur deshalb, weil zu ihrer Entwicklung und Anwendung mathematisch abgesicherte Verfahren zur Verfügung stehen. Dieses Buch vermittelt Einsichten in grundlegende Konzepte und Methoden der Linearen Algebra, auf denen diese Verfahren beruhen. Am Beispiel fehlertoleranter Codierung wird eingehend gezeigt, wie diese Konzepte und Methoden in der Praxis eingesetzt werden, und am Beispiel von Quantenalgorithmen, die möglicherweise in Zukunft eine Rolle spielen, wird deutlich, dass die Lineare Algebra zeitvariantre Konzepte, Methoden und Verfahren bereitleistet, mit denen[...]

Features
Internet, Soziale Netzwerke, Spiele, Smartphones, DVDs, digitaler Rundfunk und digitales Fernsehen funktionieren nur deshalb, weil zu ihrer Entwicklung und Anwendung mathematisch abgesicherte Verfahren zur Verfügung stehen. Dieses Buch vermittelt Einsichten in grundlegende Konzepte und Methoden der Linearen Algebra, auf denen diese Verfahren beruhen. Am Beispiel fehlertoleranter Codierung wird eingehend[...]

Contents

Fields of interest
Discrete Mathematics in Computer Science; Mathematics (general)

Target groups
Upper undergraduate

Type of publication
German textbook

More on www.springer.com/978-3-658-00188-9

Softcover
2013, VIII, 186 S., 2 Abb., 1 in Farbe.

18,64 €
ISBN 978-3-658-00188-9

Online orders shipping within 2-3 days.

Logical Foundations of Computer Science
International Symposium, LFCS 2013, San Diego, CA, USA, January 6-8, 2013. Proceedings

This book constitutes the refereed proceedings of the International Symposium on Logical Foundations of Computer Science, LFCS 2013, held in San Diego, CA, USA in January 2013. The volume presents 29 revised refereed papers carefully selected by the program committee. The scope of the Symposium is broad and includes constructive mathematics and type theory; logic, automata and automatic structures; computability and randomness; logical foundations of programming; logical aspects of computational complexity; logic programming and constraints; automated deduction and interactive theorem proving; logical methods in protocol and program verification; logical methods in program[...]

Features
This book constitutes the refereed proceedings of the International Symposium on Logical Foundations of Computer Science, LFCS 2013, held in San Diego, CA, USA in January 2013. The volume presents 29 revised refereed papers carefully selected by the program committee. The scope of the Symposium is broad and includes constructive mathematics and type theory; logic, automata and automatic structures;[...]

Contents
Constructive mathematics and type theory - logic, automata and automatic structures - computability and randomness - logical foundations of programming - logical aspects of computational complexity - logic programming and constraints - automated deduction and interactive theorem proving - logical methods in protocol and program verification - logical methods in program specification and extraction - domain theory logic - logical foundations of database theory - equational logic and term rewriting - lambda and combinatory calculi - categorical logic and topological semantics - linear[...]

Fields of interest
Mathematical Logic and Formal Languages; Arithmetic and Logic Structures; Logics and Meanings of Programs; Theory of Computation; Programming Languages, Compilers, Interpreters; Mathematical Logic and Foundations

Target groups
Research

Type of publication
Proceedings

More on www.springer.com/978-3-642-35721-3

Softcover

62,00 €
ISBN 978-3-642-35721-3

Usually dispatched within 3 to 5 business days.
Machine Learning and Interpretation in Neuroimaging

International Workshop, MLINI 2012, Held at NIPS 2011, Sierra Nevada, Spain, December 16-17, 2011, Revised Selected and Invited Contributions

Brain imaging brings together the technology, methodology, research questions and approaches of a wide range of scientific fields including physics, statistics, computer science, neuroscience, biology, and engineering. Thus, methodological and technological advances that enable us to obtain measurements, examine relationships across observations, and link these data to neuroscientific hypotheses happen in a highly interdisciplinary environment. The dynamic field of machine learning with its modern approach to data mining provides many relevant approaches for neuroscience and enables the exploration of open questions. This state-of-the-art survey offers a collection of papers from the...

Features

Brain imaging brings together the technology, methodology, research questions and approaches of a wide range of scientific fields including physics, statistics, computer science, neuroscience, biology, and engineering. Thus, methodological and technological advances that enable us to obtain measurements, examine relationships across observations, and link these data to neuroscientific hypotheses happen in a [...]

Contents

A Comparative Study of Algorithms for Intra- and Inter-subjects fMRI Decoding. - Beyond Brain Reading: Randomized Sparsity and Clustering to Simultaneously Predict and Identify. - Searchlight Based Feature Extraction. - Looking Outside the Searchlight. - Population Codes Representing Musical Timbre for High-Level fMRI Categorization of Music Genres. - Induction in Neuroscience with Classification: Issues and Solutions. - A New Feature Selection Method Based on Stability Theory – Exploring Parameters Space to Evaluate Classification Accuracy in Neuroimaging Data. - Identification of [...]

Fields of interest

Computer Imaging, Vision, Pattern Recognition and Graphics; Pattern Recognition; Data Mining and Knowledge Discovery; Probability and Statistics in Computer Science; Image Processing and Computer Vision; Computer Applications

Target groups

Research

Type of publication

Proceedings

More on www.springer.com/978-3-642-34712-2

Softcover

2012, X, 266 p. 83 illus. (Lecture Notes in Artificial Intelligence, Vol. 7263) 46,00 €

ISBN 978-3-642-34712-2

Usually dispatched within 3 to 5 business days.

Machine Learning in Medical Imaging

Third International Workshop, MLMI 2012, Held in Conjunction with MICCAI 2012, Nice, France, October 1, 2012, Revised Selected Papers

This book constitutes the refereed proceedings of the Third International Workshop on Machine Learning in Medical Imaging, MLMI 2012, held in conjunction with MICCAI 2012, in Nice, France, in October 2012. The 33 revised full papers presented were carefully reviewed and selected from 67 submissions. The main aim of this workshop is to help advance the scientific research within the broad field of machine learning in medical imaging. It focuses on major trends and challenges in this area, and it presents work aimed to identify new cutting-edge techniques and their use in medical imaging.

Features

This book constitutes the refereed proceedings of the Third International Workshop on Machine Learning in Medical Imaging, MLMI 2012, held in conjunction with MICCAI 2012, in Nice, France, in October 2012. The 33 revised full papers presented were carefully reviewed and selected from 67 submissions. The main aim of this workshop is to help advance the scientific research within the broad field of machine [...]

Contents


Fields of interest

Image Processing and Computer Vision; Pattern Recognition; Artificial Intelligence (incl. Robotics); Computer Imaging, Vision, Pattern Recognition and Graphics; Database Management; Computer Graphics

Target groups

Research

Type of publication

Proceedings

More on www.springer.com/978-3-642-35427-4

Softcover

2012, XII, 276 p. 91 illus. (Image Processing, Computer Vision, Pattern Recognition, and Graphics, Vol. 7588) 46,00 €

ISBN 978-3-642-35427-4

Usually dispatched within 3 to 5 business days.

Mathematics in Computing

An Accessible Guide to Historical, Foundational and Application Concepts

This clearly written and enlightening textbook provides a concise, introductory guide to the key mathematical concepts and techniques used by computer scientists. Topics and features: ideal for self-study, offering many pedagogical features such as chapter-opening key topics, chapter introductions and summaries, review questions, and a glossary; places our current state of knowledge within the context of the contributions made by early civilizations, such as the ancient Babylonians, Egyptians and Greeks; examines the building blocks of mathematics, including sets, relations and functions; presents an introduction to logic, formal methods and software engineering; explains the[...]

Features

From the earliest examples of computation to the digital devices that are ubiquitous in modern society, the application of mathematics to computing has underpinned the technology that has built our world. This clearly written and enlightening textbook/reference provides a concise, introductory guide to the key mathematical concepts and techniques used by computer scientists. Spanning a wide range of[...]

Contents


Fields of interest

Mathematical Applications in Computer Science; Mathematical Applications in Computer Science; Mathematical Logic and Formal Languages; Coding and Information Theory; Logics and Meanings of Programs; History of Mathematics

Target groups

Upper undergraduate

Type of publication

Undergraduate textbook


Hardcover

2013, X, 285 p. 131 illus. 44,95 €


Usually dispatched within 3 to 5 business days.
Middleware 2012

ACM/IFIP/USENIX 13th International Middleware Conference, Montreal, Canada, December 3-7, 2012. Proceedings

This book constitutes the refereed proceedings of the ACM/IFIP/USENIX 13th International Middleware Conference, held in Montreal, Canada, in December 2012. The 24 revised full papers presented were carefully reviewed and selected from 125 submissions. The papers are organized in topical sections on mobile middleware; tracing and diagnosis; architecture and performance; publish/subscribe middleware; and big data and cloud computing; availability, security and privacy.

Features
This book constitutes the refereed proceedings of the ACM/IFIP/USENIX 13th International Middleware Conference, held in Montreal, Canada, in December 2012. The 24 revised full papers presented were carefully reviewed and selected from 125 submissions. The papers are organized in topical sections on mobile middleware; tracing and diagnosis; architecture and performance; publish/subscribe middleware; and [...] 

Contents
Mobile middleware.- tracing and diagnosis.- architecture and performance.- publish/subscribe middleware.- big data and cloud computing.- availability, security and privacy.

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

Target groups
Research

Type of publication
Proceedings

More on www.springer.com/978-3-642-35169-3

Softcover
70,00 €
ISBN 978-3-642-35169-3

Usually dispatched within 3 to 5 business days.

Model-Based Engineering of Embedded Systems

The SPES 2010 Methodology

Embedded systems have long become essential in application areas in which human control is impossible or infeasible. The development of modern embedded systems is becoming increasingly difficult and challenging because of their overall system complexity, their tighter and cross-functional integration, the increasing requirements concerning safety and real-time behavior, and the need to reduce development and operation costs. This book provides a comprehensive overview of the Software Platform Embedded Systems (SPES) modeling framework and demonstrates its applicability in embedded system development in various industry domains such as automation, automotive, avionics, energy, and [...] 

Features
Embedded systems have long become essential in application areas in which human control is impossible or infeasible. The development of modern embedded systems is becoming increasingly difficult and challenging because of their overall system complexity, their tighter and cross-functional integration, the increasing requirements concerning safety and real-time behavior, and the need to reduce development [...] 

Contents

Fields of interest
Software Engineering; Special Purpose and Application-Based Systems; Automotive Engineering; Aerospace Technology and Astronautics; Health Informatics

Target groups
Professional/practitioner

Type of publication
Professional book

More on www.springer.com/978-3-642-34613-2

Hardcover
2012. XII, 301 p. 78 illus.
49,95 €
ISBN 978-3-642-34613-2

Usually dispatched within 3 to 5 business days.

Multi-disciplinary Trends in Artificial Intelligence


This volume constitutes the refereed proceedings of the 6th Multi-disciplinary International Workshop On Artificial Intelligence, MIWAI 2012, held in Ho Chi Minh City, Vietnam, in December 2012. The 29 revised full papers presented were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections in Artificial Intelligence for climate change, computer vision, decision theory, e-commerce and AI, multiagent planning and learning, game theory, industrial applications of AI, multiagent systems and evolving intelligence, robotics and Web services.

Features
This volume constitutes the refereed proceedings of the 6th Multi-disciplinary International Workshop On Artificial Intelligence, MIWAI 2012, held in Ho Chi Minh City, Vietnam, in December 2012. The 29 revised full papers presented were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections in Artificial Intelligence for climate change, computer vision, decision theory, [...] 

Contents

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

Target groups
Research

Type of publication
Proceedings

More on www.springer.com/978-3-642-35454-0

Softcover
2012. XIX, 331 p. 142 illus. (Lecture Notes in Artificial Intelligence, Vol. 7694)
54,00 €
ISBN 978-3-642-35454-0

Usually dispatched within 3 to 5 business days.
Network and Parallel Computing
9th IFIP International Conference, NPC 2012, Gwangju, Korea, September 6-8, 2012, Proceedings

This book constitutes the refereed post-proceedings of the 9th IFIP International Conference on Network and Parallel Computing, NPC 2012, held in Gwangju, Korea, in September 2012. The 38 papers presented were carefully reviewed and selected from 136 submissions. The papers are organized in the following topical sections: algorithms, scheduling, analysis, and data mining; network architecture and protocol design; network security; parallel, distributed, and virtualization techniques; performance modeling, prediction, and tuning; resource management; ubiquitous communications and networks; and web, communication, and cloud computing. In addition, a total of 37 papers selected from five [...]
Proceedings of the 2012 International Conference on Information Technology and Software Engineering

Information Technology

Proceedings of the 2012 International Conference on Information Technology and Software Engineering presents selected articles from this major event, which was held in Beijing, December 8-10, 2012. This book presents the latest research trends, methods and experimental results in the fields of information technology and software engineering, covering various state-of-the-art research theories and approaches. The subjects range from intelligent computing to information processing, software engineering, Web, unified modeling language (UML), multimedia, communication technologies, system identification, graphics and visualizing, etc. The proceedings provide a major interdisciplinary[...]

Contents

Information Technology.

Fields of interest

Information Storage and Retrieval; Information Systems Applications (incl.Internet); Multimedia Information Systems; Management of Computing and Information Systems; Software Engineering

Target groups

Research

Type of publication

Proceedings

More on www.springer.com/978-3-642-34527-2

Hardcover

ISBN 978-3-642-34527-2
Usually dispatched within 3 to 5 business days.

Proceedings of the 2012 International Conference on Information Technology and Software Engineering

Information Technology & Computing Intelligence

Proceedings of the 2012 International Conference on Information Technology and Software Engineering presents selected articles from this major event, which was held in Beijing, December 8-10, 2012. This book presents the latest research trends, methods and experimental results in the fields of information technology and software engineering, covering various state-of-the-art research theories and approaches. The subjects range from intelligent computing to information processing, software engineering, Web, unified modeling language (UML), multimedia, communication technologies, system identification, graphics and visualizing, etc. The proceedings provide a major interdisciplinary[...]

Contents

Information Technology; Computing Intelligence.

Fields of interest

Information Storage and Retrieval; Information Systems Applications (incl.Internet); Multimedia Information Systems; Management of Computing and Information Systems; Software Engineering

Target groups

Research

Type of publication

Proceedings

More on www.springer.com/978-3-642-34521-0

Hardcover

2013. XIX, 1008 p. 421 illus. (Lecture Notes in Electrical Engineering, Vol. 211)
ISBN 978-3-642-34521-0
Usually dispatched within 3 to 5 business days.

Proceedings of the 2012 International Conference on Information Technology and Software Engineering

Software Engineering & Digital Media Technology

Proceedings of the 2012 International Conference on Information Technology and Software Engineering presents selected articles from this major event, which was held in Beijing, December 8-10, 2012. This book presents the latest research trends, methods and experimental results in the fields of information technology and software engineering, covering various state-of-the-art research theories and approaches. The subjects range from intelligent computing to information processing, software engineering, Web, unified modeling language (UML), multimedia, communication technologies, system identification, graphics and visualizing, etc. The proceedings provide a major interdisciplinary[...]

Contents

Software Engineering; Digital Media Technology.

Fields of interest

Information Storage and Retrieval; Information Systems Applications (incl.Internet); Multimedia Information Systems; Management of Computing and Information Systems; Software Engineering

Target groups

Research

Type of publication

Proceedings

More on www.springer.com/978-3-642-34530-2

Hardcover

2013. XVIII, 988 p. 530 illus. (Lecture Notes in Electrical Engineering, Vol. 212)
ISBN 978-3-642-34530-2
Usually dispatched within 3 to 5 business days.
Qualitätssicherung durch Softwaredaten

Vorgehensweisen und Werkzeuge zum Test von Java-Programmen


Fields of interest

System Performance and Evaluation; Software Engineering; Computer Science (general)

Target groups

Upper undergraduate

Type of publication

German textbook

More on www.springer.com/978-3-8348-0929-2

Softcover

Reflections on the History of Computing
Preserving Memories and Sharing Stories

This book is a collection of refereed invited papers on the history of computing from the 1940s to the 1990s with one paper going back to look at Italian calculating/computing machines from the 1st century to the 20th century. The 22 papers cover a wide range of computing related topics such as specific early computer systems, their construction, their use and their users; software programming and operating systems; people involved in the theory, design and use of these computers; computer education; and conservation of computing technology. Many of the authors were actually involved in the events they describe and share their specific reflections on the history of computing.

Features
This book is a collection of refereed invited papers on the history of computing from the 1940s to the 1990s with one paper going back to look at Italian calculating/computing machines from the 1st century to the 20th century. The 22 papers cover a wide range of computing related topics such as specific early computer systems, their construction, their use and their users; software programming and operating systems; people involved in the theory, design and use of these computers; computer education; and conservation of computing technology. Many of the authors were actually involved in the events they describe and share their specific reflections on the history of computing.

Contents
History of Computing: Computers and Education; Computer Science (general); Control Structures and Microprogramming; Computer System Implementation; Software Engineering / Programming and Operating Systems

Target groups
Research

Type of publication
Contributed volume

More on www.springer.com/978-3-642-33898-4

Hardcover
2012, X, 397 p. 58 illus. (IFIP Advances in Information and Communication Technology, Vol. 387)
105,00 €
ISBN 978-3-642-33898-4
Usually dispatched within 3 to 5 business days.

Relationale Datenbanken und SQL in Theorie und Praxis


Features
Dieses Buch erläutert grundlegende Konzepte der relationalen Datenbanktechnologie und ihre Umsetzung bei der Entwicklung und Anwendung von praxistauglichen Informationssystemen mit der standardisierten Sprache SQL. Methoden zum Ablegen und Wiederfinden von Daten sind dabei ebenso Thema wie die Berücksichtigung logischer Zusammenhänge. Diese sind Voraussetzung dafür, dass die gesammelten Daten ”konsistent” - [...] Contents

Fields of interest
Database Management; Computer Appl. in Administrative Data Processing; Data Structures; Software Engineering

Target groups
Lower undergraduate

Type of publication
Undergraduate textbook

More on www.springer.com/978-3-642-28985-9

Softcover
2012, XII, 307 S. 124 Abb. (eXamen.press)
23,32 €
ISBN 978-3-642-28985-9
Usually dispatched within 3 to 5 business days.

Resilience Assessment and Evaluation of Computing Systems

The resilience of computing systems includes their dependability as well as their fault tolerance and security. It defines the ability of a computing system to perform properly in the presence of various kinds of disturbances and to recover from any service degradation. These properties are immensely important in a world where many aspects of our daily life depend on the correct, reliable and secure operation of often large-scale distributed computing systems. Wolter and her co-editors grouped the 20 chapters from leading researchers into seven parts: an introduction and motivating examples, modeling techniques, model-driven prediction, measurement and metrics, testing techniques, case [...] Features
The resilience of computing systems includes their dependability as well as their fault tolerance and security. It defines the ability of a computing system to perform properly in the presence of various kinds of disturbances and to recover from any service degradation. These properties are immensely important in a world where many aspects of our daily life depend on the correct, reliable and secure [...] Contents
System Performance and Evaluation; Probability and Statistics in Computer Science; Quality Control, Reliability, Safety and Risk; Software Engineering; Mathematical Applications in Computer Science

Target groups
Research

Type of publication
Monograph

More on www.springer.com/978-3-642-29031-2

Hardcover
2012, XVIII, 489 p. 95 illus.
109,95 €
ISBN 978-3-642-29031-2
Usually dispatched within 3 to 5 business days.
Computer Science

Shaping the Future of ICT Research: Methods and Approaches

IFIP WG 8.2 Working Conference, Tampa, FL, USA, December 13-14, 2012, Proceedings

This book constitutes the refereed proceedings of the IFIP WG 8.2 Working Conference "Shaping the Future of ICT Research", held in Tampa, FL, USA, in December 2012. The 15 revised full papers presented were carefully reviewed and selected from numerous submissions. The papers are organized in the following topical sections: new methods in design science research; recent developments in inductive research methods; emerging themes in interpretive case study research; new ideas in positivist research; and innovative trends in information systems research.

Features
This book constitutes the refereed proceedings of the IFIP WG 8.2 Working Conference "Shaping the Future of ICT Research", held in Tampa, FL, USA, in December 2012. The 15 revised full papers presented were carefully reviewed and selected from numerous submissions. The papers are organized in the following topical sections: new methods in design science research; recent developments in inductive research methods; emerging themes in interpretive case study research; new ideas in positivist research; and innovative trends in information systems research.

Contents

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

More on www.springer.com/978-3-642-35141-9

Hardcover
2012. VIII, 253 p. 33 illus. (IFIP Advances in Information and Communication Technology, Vol. 389)
78,00 €
ISBN 978-3-642-35141-9
Online orders shipping within 2-3 days.

Social Informatics

4th International Conference, SocInfo 2012, Lausanne, Switzerland, December 5-7, 2012, Proceedings

This book constitutes the proceedings of the 4th International Conference on Social Informatics, SocInfo 2012, held in Lausanne, Switzerland, in December 2012. The 21 full papers, 18 short papers included in this volume were carefully reviewed and selected from 61 submissions. The papers are organized in topical sections named: social choice mechanisms in the e-society, computational models of social phenomena, social simulation, web mining and its social interpretations, algorithms and protocols inspired by human societies, socio-economic systems and applications, trust, privacy, risk and security in social contexts.

Features
This book constitutes the proceedings of the 4th International Conference on Social Informatics, SocInfo 2012, held in Lausanne, Switzerland, in December 2012. The 21 full papers, 18 short papers included in this volume were carefully reviewed and selected from 61 submissions. The papers are organized in topical sections named: social choice mechanisms in the e-society, computational models of social...

Contents

Fields of interest
Information Systems Applications (incl.Internet); Computer Communication Networks; Artificial Intelligence (incl. Robotics); Computer A ppl in Social and Behavioral Sciences; User Interfaces and Human Computer Interaction; Data Mining and Knowledge Discovery

Target groups
Research

Type of publication
Proceedings

More on www.springer.com/978-3-642-35385-7

Softcover
70,00 €
ISBN 978-3-642-35385-7
Usually dispatched within 3 to 5 business days.
Structured Peer-to-Peer Systems

Fundamentals of Hierarchical Organization, Routing, Scaling, and Security

The field of structured P2P systems has seen fast growth upon the introduction of Distributed Hash Tables (DHTs) in the early 2000s. The first proposals, including Chord, Pastry, Tapestry, were gradually improved to cope with scalability, locality and security issues. By utilizing the processing and bandwidth resources of end users, the P2P approach enables high performance of data distribution which is hard to achieve with traditional client-server architectures. The P2P computing community is also being actively utilized for software updates to the Internet, P2PSIP VoIP, video-on-demand, and distributed backups. The recent introduction of the identifier-locator split proposal for [...] 

Features
The field of structured P2P systems has seen fast growth upon the introduction of Distributed Hash Tables (DHTs) in the early 2000s. The first proposals, including Chord, Pastry, Tapestry, were gradually improved to cope with scalability, locality and security issues. By utilizing the processing and bandwidth resources of end users, the P2P approach enables high performance of data distribution which is [...] 

Contents

Fields of interest
Computer Communication Networks; Systems and Data Security; Communications Engineering; Networks

Target groups
Research

Type of publication
Monograph

More on www.springer.com/978-1-4614-5482-3

Hardcover
2012. XXII. 366 p. 84 illus., 45 in color.
94,95 €

Usually dispatched within 3 to 5 business days.

Subject-Oriented Business Process Management

Activities performed in organizations are coordinated via communication between people involved. The sentences used to communicate are naturally structured by subject, verb, and object. The subject describes the actor, the verb the action and the object what is affected by the action. Subject-oriented Business Process Management (S-BPM) as presented in this book is based on this simple structure which enables process-oriented thinking and process modeling. S-BPM puts the subject of a process at the center of attention and thus deals with business processes and their organizational environment from a new perspective, meeting organizational requirements in a much better way than [...] 

Features
Activities performed in organizations are coordinated according to organizational goals via communication between the people involved. In all known languages the sentences used to communicate are naturally structured by subject, verb, and object. The subject describes the actor, the verb the action and the object what is affected by the action. Subject-oriented Business Process Management (S-BPM) as [...] 

Contents
Thinking of Business Processes Systematically.- From Language Acquisition to Subject-oriented Modeling.- The Integrated S-BPM Process Model.- Subject-oriented Process Analysis.- Modeling Processes in a Subject-Oriented Way.- Subject-Oriented Modeling by Construction and Restriction.- Subject-oriented Validation of Processes and Process Models.- Subject-oriented Optimization of Processes.- Organization-specific Implementation of Subject-oriented Processes.- IT-Implementation of Subject-oriented Business Processes.- Subject-oriented Monitoring of Processes.- A Precise Description of the [...] 

Fields of interest
Information Systems Applications (incl.Internet); Business Information Systems; Computer Appl. in Administrative Data Processing; Management of Computing and Information Systems

Target groups
Professional/practitioner

Type of publication
Professional book

More on www.springer.com/978-3-642-32391-1

Hardcover
49,95 €
ISBN 978-3-642-32391-1

Usually dispatched within 3 to 5 business days.

Swarm, Evolutionary, and Memetic Computing


This book constitutes the refereed proceedings of the Third International Conference on Swarm, Evolutionary, and Memetic Computing, SEMCCO 2012, held in Bhubaneswar, India, in December 2012. The 96 revised full papers presented were carefully reviewed and selected from 310 initial submissions. The papers cover a wide range of topics in swarm, evolutionary, memetic and other intelligent computing algorithms and their real world applications in problems selected from diverse domains of science and engineering.

Features
This book constitutes the refereed proceedings of the Third International Conference on Swarm, Evolutionary, and Memetic Computing, SEMCCO 2012, held in Bhubaneswar, India, in December 2012. The 96 revised full papers presented were carefully reviewed and selected from 310 initial submissions. The papers cover a wide range of topics in swarm, evolutionary, memetic and other intelligent computing algorithms and [...] 

Contents
Swarm, evolutionary, memetic and other intelligent computing algorithms.- Real world applications in problems.- Diverse domains of science and engineering.

Fields of interest
Computation by Abstract Devices; Artificial Intelligence (incl. Robotics); Algorithm Analysis and Problem Complexity; Pattern Recognition; Computer Communication Networks; Software Engineering

Target groups
Professional/practitioner

Type of publication
Proceedings

More on www.springer.com/978-3-642-35379-6

Softcover
95,00 €
ISBN 978-3-642-35379-6

Usually dispatched within 3 to 5 business days.
The Internet of Products

An Approach to Establishing Total Transparency in Electronic Markets

This study approaches the difficult problem of providing Internet users with a completely transparent view on electronic markets from a product information accessibility point of view. Robert Neumann analyzes economic, ecological, and societal gains of openly accessible product information in the form of theoretical models. Though many aspects of very different research disciplines have to be investigated to gain a holistic view on the Internet of Products, this thesis reduces the range of involved research topics to product information discoverability related questions.

Features

This text approaches the difficult problem of providing Internet users with a completely transparent view on electronic markets from a product information accessibility point of view. Robert Neumann analyzes economic, ecological, and societal gains of openly accessible product information in the form of theoretical models. Though many aspects of very different research disciplines have to be investigated to gain a holistic view on the Internet of Products, this thesis reduces the range of involved research topics to product information discoverability related questions.

Contents


Fields of interest
e-commerce / e-business

Target groups

Research

Type of publication

Ph.D. thesis


Softcover

2013. XXI, 263 p. 78 illus. 56,03 zł


Usually dispatched within 3 to 5 business days.

The Secure Information Society

Ethical, Legal and Political Challenges

In our modern information societies, we not only use and welcome computers; we are highly dependent upon them. There is a downside of this kind of progress, however. Computers are not 100% reliable. They are insecure. They are vulnerable to attackers. They can either be attacked directly, to disrupt their services, or they can be abused in clever ways to do the bidding of an attacker as a dysfunctional user. Decision-makers and experts alike always struggle with the amount of interdisciplinary knowledge needed to understand the nuts and bolts of modern information societies and their relation to security, the implications of technological or political progress or the lack thereof. This [...]
**Time-of-Flight Cameras**

**Principles, Methods and Applications**

Time-of-flight (TOF) cameras provide a depth value at each pixel, from which the 3D structure of the scene can be estimated. This new type of active sensor makes it possible to go beyond traditional 2D image processing, directly to depth-based and 3D scene processing. Many computer vision and graphics applications can benefit from TOF data, including 3D reconstruction, activity and gesture recognition, motion capture and face detection. It is already possible to use multiple TOF cameras, in order to increase the scene coverage, and to combine the depth data with images from several colour cameras. Mixed TOF and colour systems can be used for computational photography, including full [...]
Trends and Topics in Computer Vision
ECCV 2010 Workshops, Heraklion, Crete, Greece, September 10-11, 2010, Revised Selected Papers, Part II

The two volumes LNCS 6553 and 6554 constitute the refereed post-proceedings of 7 workshops held in conjunction with the 11th European Conference on Computer Vision, held in Heraklion, Crete, Greece in September 2010. The 62 revised papers presented together with 2 invited talks were carefully reviewed and selected from numerous submissions. The second volume contains 34 revised papers selected from the following workshops: Workshop on color and reflectance in Imaging and Computer Vision (CRICV 2010); Workshop on Media Retargeting (MDW 2010); Workshop on Reconstruction and Modeling of Large-Scale 3D Virtual Environments (RMLE 2010); and Workshop on Computer Vision on GPUs (CVGPU 2010).

Features
The two volumes LNCS 6553 and 6554 constitute the refereed post-proceedings of 7 workshops held in conjunction with the 11th European Conference on Computer Vision, held in Heraklion, Crete, Greece in September 2010. The 62 revised papers presented together with 2 invited talks were carefully reviewed and selected from numerous submissions. The second volume contains 34 revised papers selected from the […]

Contents

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

Target groups
Research

Type of publication
Proceedings

More on www.springer.com/978-3-642-35376-5

Softcover
70,00 €
ISBN 978-3-642-35376-5

Usually dispatched within 3 to 5 business days.

Ubiquitous Computing and Ambient Intelligence
6th International Conference, UCAMl 2012, Vitoria-Gasteiz, Spain, December 3-5, 2012, Proceedings

This book constitutes the refereed proceedings of the 6th International Conference on Ubiquitous Computing and Ambient Intelligence, UCAMl 2012, held in Vitoria-Gasteiz, Spain, in December 2012. The 70 research papers were carefully reviewed and selected from various submissions. The main focus of this book has been to explore how Ambient Intelligence can contribute towards smarter but still more sustainable environments. Beyond sustainable computing the proceedings also include research work describing progress on other key research topics for such as human environment mobile-mediated (through NFC or AR) interaction, artificial intelligence techniques to foster user- and […]

Features
This book constitutes the refereed proceedings of the 6th International Conference on Ubiquitous Computing and Ambient Intelligence, UCAMl 2012, held in Vitoria-Gasteiz, Spain, in December 2012. The 70 research papers were carefully reviewed and selected from various submissions. The main focus of this book has been to explore how Ambient Intelligence can contribute towards smarter but still more sustainable […]

Fields of interest
Information Systems Applications (incl.Internet); Computer Communication Networks; Artificial Intelligence (incl. Robotics); User Interfaces and Human Computer Interaction; Software Engineering; Computers and Society

Target groups
Research

Type of publication
Proceedings

More on www.springer.com/978-3-642-35376-5

Softcover
70,00 €
ISBN 978-3-642-35376-5

Usually dispatched within 3 to 5 business days.

User Centric Media
Second International Conference, UCMedia 2010, Palma, Mallorca, Spain, September 1-3, 2010, Revised Selected Papers

This book constitutes the thoroughly refereed post-conference proceedings of the Second International Conference, UCMedia 2010, which was held in Palma, Mallorca, Spain, in September 2010, accompanied by the 4th InterMedia Open Forum Workshop (IMOF). After a thorough review process 16 conference and 3 workshop papers were selected for inclusion in the book. The papers are grouped in topical sections on: personalisation access to multimedia content; search and retrieval of networked multimedia content; multimedia, AMP, and user experience; video quality perception and user quality of experience; user generated content; content distribution; and content summarisation.

Features
This book constitutes the thoroughly refereed post-conference proceedings of the Second International Conference, UCMedia 2010, which was held in Palma, Mallorca, Spain, in September 2010, accompanied by the 4th InterMedia Open Forum Workshop (IMOF). After a thorough review process 16 conference and 3 workshop papers were selected for inclusion in the book. The papers are grouped in topical sections on: […]

Contents
Personalised access to multimedia content.- search and retrieval of networked multimedia content.- multimedia, AMP, and user experience.- video quality perception and user quality of experience.- user generated content.- content distribution.- content summarisation.

Fields of interest
Multimedia Information Systems; User Interfaces and Human Computer Interaction; Information Storage and Retrieval; Information Systems Applications (incl.Internet); Media Design; Database Management

Target groups
Research

Type of publication
Proceedings

More on www.springer.com/978-3-642-35376-5

Softcover
2012, XII, 161 p. 64 illus. (Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, Vol. 60)
46,00 €
ISBN 978-3-642-35144-0

Usually dispatched within 3 to 5 business days.
Dentistry

A.L. Dumitrescu, University of Tromsø, Norway

Understanding Periodontal Research

As stated by The Cochrane Collaboration on their website, the practice of evidence-based medicine means integrating individual clinical expertise with the best available external clinical evidence from systematic research. Understanding Periodontal Research fills a significant gap in the literature by providing oral health and periodontal researchers with a comprehensive overview of the methodological aspects that are important when planning, conducting, and analyzing their research projects. It is designed to be easy to understand for beginners in the field, yet will also serve as a useful tool for those who are more experienced. Undergraduate and postgraduate dental students, dental[...]

Features
As stated by The Cochrane Collaboration on their website, the practice of evidence-based medicine means integrating individual clinical expertise with the best available external clinical evidence from systematic research. Understanding Periodontal Research fills a significant gap in the literature by providing oral health and periodontal researchers with a comprehensive overview of the methodological aspects.[...]

Contents
Evidence-based periodontology - Ethical Considerations in Periodontal Research - Overview of Clinical Research Design Architecture - The Randomized Clinical Trials Design - Biases in periodontal research - Measurement reliability in periodontal research - Compliance considerations in clinical trial design - Performing systematic reviews and meta-analyses - Statistical versus clinical significance in periodontal research - Clinical practice guidelines in periodontology - Multilevel analysis: site-tooth-patient level - Contemporary Concepts in the Diagnosis of Periodontal Disease - A[...]

Fields of interest
Dentistry

Target groups
Professional/practitioner

Type of publication
Monograph

More on www.springer.com/978-3-642-28922-4

Hardcover
2012, XIII, 772 p. 269 illus., 136 in color. 199,95 €
ISBN 978-3-642-28922-4
Online orders shipping within 2-3 days.

Earth Sciences

U. Sebastian, Fachschule für Technik in Freiberg/Sachsen

Die Geologie des Erzgebirges


Features
Die faszinierende Geologie und Erdgeschichte des Erzgebirges Das Erzgebirge ist in geologischer Hinsicht eine der faszinierendsten Regionen Europas. Auf drei Vierteln seiner Fläche stehen metamorphe Gesteine an. Über Jahrhunderte standen diese wissenschaftlich im Schatten der ökonomisch bedeutenden Erzlagertätern. Allerdings lässt sich aus ihnen die komplexe und spannende [...] Contents

Fields of interest
Geology; Historical Geology

Target groups
Research

Type of publication
Popular/general

Type of publication
Monograph

More on www.springer.com/978-3-8274-2976-6

Hardcover
2013, XI, 248 S. 288 Abb. in Farbe. 37,34 €
ISBN 978-3-8274-2976-6
Online orders shipping within 2-3 days.

Earth System Science: Bridging the Gaps between Disciplines

Perspectives from a Multi-Disciplinary Helmholtz Research School

Earth system science is traditionally split into various disciplines (Geology, Physics, Meteorology, Oceanography, Biology etc.) and several sub-disciplines. Overall, the diversity of expertise provides a solid base for interdisciplinary research. However, gaining holistic insights into the Earth system requires the integration of observations, paleoclimate data, analysis tools and modeling. These different approaches of Earth system science are rooted in various disciplines that cut across a broad range of timescales. It is, therefore, necessary to link these disciplines at a relatively early stage in PhD programs. The linking of ‘data and modeling’, as it is the special emphasis in[...]

Features
Earth system science is traditionally split into various disciplines (Geology, Physics, Meteorology, Oceanography, Biology etc.) and several sub-disciplines. Overall, the diversity of expertise provides a solid base for interdisciplinary research. However, gaining holistic insights into the Earth system requires the integration of observations, paleoclimate data, analysis tools and modeling. These different [...] Contents

Fields of interest
Earth System Sciences; Administration, Organization and Leadership; Environment (general)

Target groups
Research

Type of publication
Brief

More on www.springer.com/978-3-642-32234-1

Softcover
2013, XI, 134 p. 61 illus., 52 in color. (SpringerBriefs in Earth System Sciences) 49,95 €
ISBN 978-3-642-32234-1
Usually dispatched within 3 to 5 business days.
Material Cycling of Wetland Soils Driven by Freeze-Thaw Effects

Freezing and thawing of soils is a common phenomenon in the winter-cold zone. The thesis titled "Material Cycling of Wetland Soils Driven by Freeze-Thaw Effects" systematically explores the freeze-thaw effects on the accumulation and release processes of carbon and nitrogen in wetland soils, which is a good step toward the investigation of biogeochemical processes in wetlands in seasonal freeze-thaw areas. It is also developing strategies aimed at global warming effects on the accumulation and release of carbon and nitrogen in wetlands.

Dr. Xiaofei Yu works at the Northeast Institute of Geography and Agroecology, Chinese Academy of Sciences, China.

Features
Freezing and thawing of soils is a common phenomenon in the winter-cold zone. The thesis titled "Material Cycling of Wetland Soils Driven by Freeze-Thaw Effects" systematically explores the freeze-thaw effects on the accumulation and release processes of carbon and nitrogen in wetland soils, which is a good step toward the investigation of biogeochemical processes in wetlands in seasonal freeze-thaw areas. It [...]
Water Management and Public Participation

Case Studies from the Yamuna River Basin, India

Integrated Water Resources Management (IWRM) is an approach that promotes the coordinated development and management of water, land and related resources, in order to maximize economic and social welfare in an equitable manner without compromising the sustainability of vital ecosystems. Without public interest and participation, successful implementation of IWRM plans for river basin cannot be possible. Further to this, management at the watershed level to assure water supplies to support livelihood (i.e. domestic water, irrigation, industries, etc.) and sustainable groundwater development requires water augmentation through water conservation structures, and pollution control will...[

Features

Integrated Water Resources Management (IWRM) is an approach that promotes the coordinated development and management of water, land and related resources, in order to maximize economic and social welfare in an equitable manner without compromising the sustainability of vital ecosystems. Without public interest and participation, successful implementation of IWRM plans for river basin cannot be possible. [...]
Antikorruptionssysteme für die strategische Beschaffung

Besteuerung der Unternehmen

Eine Einführung in Steuerrecht und Steuerwirkung

Die Betriebswirtschaftliche Steuerlehre befasst sich mit dem Steuerrecht der Unternehmen und den davon ausgelösten Steuerwirkungen. Dieses Lehrbuch vermittelt die steuerrechtlichen Grundlagen und analysiert die Auswirkungen der Besteuerung auf unternehmerische Entscheidungen.

Features

Die Betriebswirtschaftliche Steuerlehre befasst sich mit dem Steuerrecht der Unternehmen und den davon ausgelösten Steuerwirkungen. Dieses Lehrbuch vermittelt die steuerrechtlichen Grundlagen und analysiert die Auswirkungen der Besteuerung auf unternehmerische Entscheidungen. Der Inhalt steuert der Unternehmen: Einkommensteuer, Körperschaftsteuer, Gewerbesteuer, Erbschaft- und Schenkungssteuer, [...]

Contents

Steuern der Unternehmen.- Ertragsbesteuerung nationaler Unternehmen.- Ertragsbesteuerung internationaler Unternehmen.- Steuerwirkungen.

Fields of interest

Business Taxation

Target groups

Upper undergraduate

Type of publication

German textbook

More on www.springer.com/978-3-8349-3983-8

Softcover

2012. XLVI, 905 S. (Springer-Lehrbuch)
37,34 €
ISBN 978-3-8349-3983-8

Online orders shipping within 2-3 days.

---

Betriebsführung im Gesundheitswesen

Führungskompendium für Gesundheitsberufe


Features

Betriebsführung im Gesundheitswesen Das vorliegende Buch leistet als Nachschlagewerk und Ausbildungshilfe einen wichtigen Beitrag, um das Führungsverständnis im Gesundheitswesen zu verbessern. Anhand wichtiger Aspekte der Betriebs- und Menschenführung beschreibt der Autor die Grundzüge einer Führungsehrung für das Gesundheitswesen. Dazu zählen die Bereiche der Führungsgroßlagen, der aufbau- und [...]?

Contents

Führungsgroßlagen.- Führungssituation.- Führungsmethoden.- Führungsführung.- Führungsfelder.- Führungsfeld Patienten.

Fields of interest

Management/Business for Professionals; Health Economics; Entrepreneurship

Target groups

Professional/practitioner

Type of publication

Professional book

More on www.springer.com/978-3-8349-4299-9

Softcover

2013. XXII, 390 S.
37,34 €
ISBN 978-3-8349-4299-9

Usually dispatched within 3 to 5 business days.

---

Business Combinations nach IFRS 3

Bilanzierung von Unternehmenszusammenschlüssen


Features

Business Combinations nach IFRS 3 Die Bilanzierung von Unternehmenszusammenschlüssen nach IFRS 3 stellt ein besonders anspruchsvolles und beratungsintensives Gebiet im Bereich der Internationalen Rechnungslegung dar. In Anlehnung an den IFRS-Kommentar (Buschhüter/Striegel) führt das Werk zunächst den englischen Originaltext an und ermöglicht damit einen ganzheitlichen Blick auf die aktuelle [...]?

Contents


Fields of interest

Financial Economics; Law and Economics; Finance / Banking; International Economics

Target groups

Professional/practitioner

Type of publication

German textbook

More on www.springer.com/978-3-8349-4467-2

Softcover

2013. 93 S.
32,70 €
ISBN 978-3-8349-4467-2

Usually dispatched within 3 to 5 business days.
Business Innovation in der Logistik

Chancen und Herausforderungen für Wissenschaft und Praxis


Features


Contents


Fields of interest

Management/Business for Professionals; Production / Logistics; Business & Management Science

Target groups

Professional/practitioner

Type of publication

Professional book

More on www.springer.com/978-3-658-00643-3

Hardcover

2012. XIV, 317 S. 88 Abb. (Business Innovation Univer-
stität St. Gallen) 
56,07 €
ISBN 978-3-658-00643-3
Usually dispatched within 3 to 5 business days.

Business-Etikette in Europa

Stilsicher auftreten, Umgangsformen beherrschen

Europa mit seinen vielfältigen und spezifischen Kulturstandards ist wirtschaftlich einer der größten Handelspartner der Welt. Viele internationale Unternehmen sind bereits auf europäischem Boden aktiv oder möchten auf diesem Markt präsent sein. Die damit verbundenen Anforderungen an die persönlichen interkulturellen Handlungskompetenzen sind stark gestiegen und wachsen immer noch. Dieses Buch ist an der Geschäftswirklichkeit internationaler Fach- und Führungskräfte ausgerichtet. Es gibt aktuelle Handlungsempfehlungen und zeigt die Veränderungen sowie Hintergründe des interkul-

Features

Europa mit seinen vielfältigen und spezifischen Kulturstandards ist wirtschaftlich einer der größten Handelspartner der Welt. Viele internationale Unternehmen sind bereits auf europäischem Boden aktiv oder möchten auf diesem Markt präsent sein. Die damit verbundenen Anforderungen an die persönlichen interkulturellen Handlungskompetenzen sind stark gestiegen und wachsen immer noch. Dieses Buch ist an der Geschäftswirklichkeit internationaler Fach- und Führungskräfte ausgerichtet. Es gibt aktuelle Handlungsempfehlungen und zeigt die Veränderungen sowie Hintergründe des interkul- 

Contents

Begrüßen, Bekanntmachen - Titel und Anreden, Vis-

Fields of interest

Business Strategy / Leadership; Personnel Manage-

Target groups

Professional/practitioner

Type of publication

Professional book

More on www.springer.com/978-3-658-01029-4

Softcover

32,66 €
ISBN 978-3-658-01029-4
Usually dispatched within 3 to 5 business days.

China Green Development Index Report 2011

With the rapid growth of global industrialization, there has been substantial consumption of fossil fuels such as coal, petroleum, and natural gas along with growing carbon dioxide emissions. Unprece-
dented environmental and ecological crisis clouded the world. Fortunately, the Climate Conference in Copenhagen signaled hope amid the sluggish global economic recovery. Countries worldwide have been braced for developing their scientific and industrial strategies in the era of post financial crisis with a green and low-carbon philosophy. In 2008, the UN unveiled a plan for green politics and green econ-
omy, which is well-received and carried out by coun-
tries worldwide. China’s 30-year [...] 

Features

The report was launched beginning the China’s Twelfth Five-year Period (2011–2015). After reviewing the measurement system of the Green Development Index 2010, the report measures the green develop-
ment level of 30 provinces, municipalities and autonomous regions as well as 34 large and medium-sized cities in China. The city-based measurement is first introduced into the report. Both the province and [...] 

Contents


Fields of interest

Economic Growth; Nature Conservation; Environ-

Target groups

Research 

Type of publication

Contributed volume

More on www.springer.com/978-3-642-31596-1

Hardcover

169,95 €
ISBN 978-3-642-31596-1
Usually dispatched within 3 to 5 business days.
Der Weg in die Unternehmensberatung

Consulting Case Studies erfolgreich bearbeiten


Features

Fields of interest
Personnel Management; Economics

Target groups
Professional/practitioner

Type of publication
Professional book

More on www.springer.com/978-3-8349-3594-6

Hardcover
2013. X, 214 S. 44 Abb. in Farbe.
30,79 €
ISBN 978-3-8349-3594-6

Online orders shipping within 2-3 days.

Design and Operation of Automated Container Storage Systems

The storage yard is the operational and geographical centre of most seaport container terminals. Therefore, it is of particular importance for the whole terminal system and plays a major role for trade and transport flows. One of the latest trends in container-storage operations is the automated Rail-Mounted-Gantry-Crane system, which offers dense stacking, and offers low labour costs. This book investigates whether the operational performance of container terminals is influenced by the design of these storage systems and to what extent the performance is affected by the terminal's framework conditions, and discusses the strategies applied for container stacking and crane [...] 

Features
The storage yard is the operational and geographical centre of most seaport container terminals. Therefore, it is of particular importance for the whole terminal system and plays a major role for trade and transport flows. One of the latest trends in container-storage operations is the automated Rail-Mounted-Gantry-Crane system, which offers dense stacking, and offers low labour costs. This book investigates [...] 

Contents

Fields of interest
Production / Logistics; Operation Research / Decision Theory; Simulation and Modeling

Target groups
Research

Type of publication
Monograph

More on www.springer.com/978-3-7908-2884-9

Hardcover
2013. XX, 456 p. 57 illus. (Contributions to Management Science)
129,95 €
ISBN 978-3-7908-2884-9

Usually dispatched within 3 to 5 business days.

Die Fabrik als soziales System

Wandlungsfähigkeit durch systemische Fabrikplanung und Organisationsentwicklung - ein Beispiel aus der Automobilindustrie


Features
In einer Umwelt, die sich dynamisch weiterentwickelt, ist Wandlungsfähigkeit für Unternehmen, die materielle, industriell zu fertigende Produkte anbieten, von großer Bedeutung. Dabei existieren aus Sicht der Bereiche Technik, Betriebs- und Sozialwissenschaft unterschiedliche Wege bei der Planung und dem Betrieb von Fabriken. Dieses Buch beschreibt am Beispiel einer Automobilfabrik anschaulich, wie ein [...] 

Contents

Fields of interest
Business & Economics (general)

Target groups
Professional/practitioner

Type of publication
Professional book

More on www.springer.com/978-3-8349-4376-7

Softcover
2012. XVI, 410 S. 75 Abb. 56,03 €
ISBN 978-3-8349-4376-7

Usually dispatched within 3 to 5 business days.
**E-Bilanz**

Leitfaden mit neuem DATEV-Kontenrahmen zur Einführung in Unternehmen


**Features**


**Contents**


**Fields of interest**

Accounting / Auditing

**Target groups**

Professional/practitioner

**Type of publication**

Professional book

More on www.springer.com/978-3-8349-3382-9

**Softcover**

2013. VIII, 114 S.
32,66 €
ISBN 978-3-8349-3382-9

Usually dispatched within 3 to 5 business days.

---

**Digitale Medien im Unternehmen**

Perspektiven des betrieblichen Einsatzes von neuen Medien

Die Nutzung von digitalen Medien ist für die verschiedenen Funktionsbereiche eines Unternehmens nicht mehr wegzudenken. Das Marketing erfolgt zunehmend crossmedial, also klassisch nicht-digital und zunehmend digital. Der Vertrieb von Produkten und Dienstleistungen erfolgt immer mehr international und auf digitalen Wege. Existierende Geschäftsmodule werden digitalisiert, neue digitale Geschäftsmodelle sind auf dem Vormarsch. Trotz oder gerade wegen dieser rasanten Entwicklung werden digitale Medien in Unternehmen wenig systematisiert und häufig aktionistisch eingeführt. Der Professionalisierungsgrad in Unternehmen kommt bei den technischen Entwicklungen nicht hinterher. Umso wichtiger...

**Features**

Die Nutzung von digitalen Medien ist für die verschiedenen Funktionsbereiche eines Unternehmens nicht mehr wegzudenken. Das Marketing erfolgt zunehmend crossmedial, also klassisch nicht-digital und zunehmend digital. Der Vertrieb von Produkten und Dienstleistungen erfolgt immer mehr international und auf digitalen Wege. Die Optimierung von unternehmensinternen Prozessen erfolgt auf digitalen Netzwerken...

**Contents**


**Fields of interest**

Media Management; Management/Business for Professionals; Technology Management; Marketing

**Target groups**

Professional/practitioner

**Type of publication**

Professional book

More on www.springer.com/978-3-642-29905-6

**Hardcover**

2012. XI, 252 S. 38 Abb.
56,03 €
ISBN 978-3-642-29905-6

Usually dispatched within 3 to 5 business days.

---

**Dynamic Capabilities und Innovationsstrategien**

Interdependenzen in Theorie und Praxis

Das Buch intendiert einen Beitrag zur ressourcenorientierten Perspektive des strategischen Managements. Aufbauend auf theoretischen Betrachtungen werden Mikrofundierungen von Dynamic Capabili-

**Features**

Trotz umfassender, konzeptioneller Erforschung von Dynamic Capabilities existiert auf Ebene ihrer system- und prozessbasierten Mikrofundierungen noch eine Vielzahl an unbeantworteten Fragen. Peter Hutterer intendiert einen Beitrag zu dieser ressourcenorientierten Perspektive des strategischen Managements und erforscht Strukturen und Prozesse im Zusammenhang mit Innovationsstrategien. "Abzuleiten und zu einem strategischen Erkä-

**Contents**


**Fields of interest**

Business Strategy/Leadership

**Target groups**

Research

**Type of publication**

Monograph

More on www.springer.com/978-3-658-01093-5

**Softcover**

2013. XXVI, 376 S. 95 Abb.
56,03 €

Usually dispatched within 3 to 5 business days.

---

**E-Bilanz**

Leitfaden mit neuem DATEV-Kontenrahmen zur Einführung in Unternehmen


**Features**

Die E-Bilanz ist die elektronische Übermittlung der Unternehmensbilanz an das zuständige Finanzamt. Alle buchführungspflichtigen Unternehmen bzw. Gewerbetreibende werden verpflichtet, ihre Bilanz ab 2013 elektronisch an das Finanzamt zu übermit-

**Contents**


**Fields of interest**

Accounting / Auditing

**Target groups**

Professional/practitioner

**Type of publication**

Professional book

More on www.springer.com/978-3-8349-3382-9

**Softcover**

2012. VIII, 114 S.
32,66 €
ISBN 978-3-8349-3382-9

Usually dispatched within 3 to 5 business days.
## Effektives Customer Relationship Management

**Instrumente - Einführungskonzepte - Organisation**


### Contents

- Instrumente des CRM - Einführungskonzepte und Organisation.

### Fields of interest

- Marketing; Business & Management Science

### Target groups

- Upper undergraduate

### Type of publication

- Professional book

More on [www.springer.com/978-3-8349-4175-6](http://www.springer.com/978-3-8349-4175-6)

### Softcover

- 2013, X, 419 S. 118 Abb.
- 65,37 €
- ISBN 978-3-8349-4175-6
- Usually dispatched within 3 to 5 business days.

## Emerging Health Technology

**Relocation of Innovative Visual Knowledge and Expertise**

This book reports cutting-edge cases of emerging health technologies. Some health care fields are experiencing paradigmatic shifts because of robotic technologies and the new relationships that they create in r-Health (r-Curing and r-Caring) activities. The book explores emerging health care technologies such as image-guided surgical robotics, pharmacy robots, new visualisation methods (3D, 4D & #5D#) and home telehealth management systems and their acceptance in the workplace but also, more generally, their special role in business and society. These technologies allow health care professionals to effectively reach far beyond the current service offerings, providing new methods for [...]  

### Features

- This book reports cutting-edge cases of emerging health technologies.
- Some health care fields are experiencing paradigmatic shifts because of robotic technologies and the new relationships that they create in r-Health (r-Curing and r-Caring) activities.
- The book explores emerging health care technologies such as image-guided surgical robotics, pharmacy robots, new visualisation methods (3D, 4D & #5D#) and home telehealth management systems and their acceptance in the workplace but also, more generally, their special role in business and society.

### Contents


### Fields of interest

- Health Economics; Health Informatics; Public Health; Organizational Studies, Economic Sociology

### Target groups

- Research

More on [www.springer.com/978-3-642-32569-4](http://www.springer.com/978-3-642-32569-4)

### Softcover

- 2013, XVII, 124 p. 9 Illus. (SpringerBriefs in Health Care Management and Economics)
- 49,95 €
- ISBN 978-3-642-32569-4
- Online orders shipping within 2-3 days.

## Employment Location in Cities and Regions

**Models and Applications**

The focus of this book is the modeling of the location of economic activities, measured in terms of employment, in land-use and transportation systems. These measures are key inputs to models at intra-urban scales of the flows of persons and goods for both urban and transport planning. The models described here are either components of comprehensive models or specialist studies. Economic activities can be [...]  

### Contents


### Fields of interest

- Regional Science; Economic Geography; Engineering Design; Computer Imaging, Vision, Pattern Recognition and Graphics

### Target groups

- Research

More on [www.springer.com/978-3-642-31778-1](http://www.springer.com/978-3-642-31778-1)

### Hardcover

- 2013, VIII, 293 p. 64 Illus. (Advances in Spatial Science)
- 129,95 €
- ISBN 978-3-642-31778-1
- Usually dispatched within 3 to 5 business days.
Enterprise Information Management

When Information Becomes Inspiration

How an organization manages its information is arguably the most important skill in today’s dynamic and hyper-competitive environment. In Enterprise Information Management, editor Paul Baan and a team of expert contributors present a holistic approach to EIM, with an emphasis on action-oriented decision making. The authors demonstrate that EIM must be promoted from the top down, in order to ensure that the entire organization is committed to establishing and supporting the systems and processes designed to capture, store, analyze, and disseminate information. They identify three key “pillars” of applications: (1) business intelligence (the information and knowledge management)[...]

Features
How an organization manages its information is arguably the most important skill in today’s dynamic and hyper-competitive environment. In Enterprise Information Management, editor Paul Baan and a team of expert contributors present a holistic approach to EIM, with an emphasis on action-oriented decision making. The authors demonstrate that EIM must be promoted from the top down, in order to ensure [..]

Fields of interest
Business Information Systems; Information Systems Applications (incl.Internet); Database Management

Type of publication
Professional/practitioner

Hardcover
2013. XI, 225 p. 94 illus., 24 in color. (Management for Professionals, Vol. 2)
59,95 €

Usually dispatched within 3 to 5 business days.

Entrepreneurship, Finance, Governance and Ethics

This book covers topics that are at the intersection of business ethics and governance as they pertain to entrepreneurship and finance. It is the first focused work that links entrepreneurship and finance to governance and business ethics, rather than explore them separately. The chapters highlight with empirical data the strong interplay between ethics in organizational efficiency and financial activity, and the role of legal settings and governance in facilitating ethical standards. They discuss novel and timely topics, particularly given the recent financial crisis and discussions on regulating ethical behaviour. This book will encourage future scholars to investigate the role of[...]

Features
This book spans topics at the intersection of business ethics and governance as they pertain to entrepreneurship and finance. To the Editors’ knowledge it is the first collection of papers linking entrepreneurship and finance to governance and business ethics, rather than exploring these issues separately. The chapters identify empirically the strong interplay between ethics in organizational efficiency and[...]

Contents
1 Overview; Robert Cressy, Douglas Cumming and Christine Mallin. - Part I: Entrepreneurship, Venture Finance and Ethics.- 2 The Value of Country-level Perceived Ethics to Entrepreneurs around the World; April Knill.- 3 Do private equity firms respond better to financial distress than PLCs; Robert Cressy and Hisham Farag.- 4 Deal Structuring in Philanthropic Venture Capital Investments; Luisa Alemany and Mariarosa Scarlata.- 5 Law and Corruption in Venture Capital and Private Equity; Douglas Cumming, Grant Fleming, Sofia Johan and Dorra Najar.- Part II: The Impact of Regulation and[...]

Fields of interest
Public Finance & Economics; Ethics; Financial Law / Fiscal Law; Entrepreneurship

Target groups
Research

Type of publication
Contributed volume

Hardcover
2013. VI, 455 p. 27 illus. (Advances in Business Ethics Research, Vol. 3)
129,95 €
ISBN 978-94-007-3866-9

Usually dispatched within 3 to 5 business days.

Erfolgreich Forschen

Ein Leitfaden für Bachelor-, Master-Studierende und Doktoranden

Die konzentrierten und umsetzungsorientierten Hilfestellungen in diesem Forschungs-Leitfaden sollen Studierende und Doktoranden befähigen, ein gewähltes Forschungsthema in einem strukturierten Prozess mit definierten und damit nachvollziehbaren Teilschritten zielorientiert zu bearbeiten, sodass hieraus aussagefähige wissenschaftliche Ergebnisse resulteren. Der disziplinäre Ansatz sind die Wirtschaftswissenschaften und dabei speziell die Betriebswirtschaftslehre. Das wissenschaftstheoretische Fundament des Kritischen Rationalismus und des Wissenschaftlichen Realismus besitzt jedoch auch für viele andere wissenschaftlichen Disziplinen Gültigkeit. Die hier vorgestellte Vorgehensweise[...]

Features
Die konzentrierten und umsetzungsorientierten Hilfestellungen in diesem Forschungs-Leitfaden sollen Studierende und Doktoranden befähigen, ein gewähltes Forschungsthema in einem strukturierten Prozess mit definierten und damit nachvollziehbaren Teilschritten zielorientiert zu bearbeiten, sodass hieraus aussagefähige wissenschaftliche Ergebnisse resulteren. Der disziplinäre Ansatz sind die[...]

Contents

Fields of interest
Business & Economics (general); Science; Social Sciences (general)

Target groups
Upper undergraduate

Type of publication
German textbook

Hardcover
2012. XXV, 437 S. 165 Abb. (Springer-Lehrbuch)
27,99 €
ISBN 978-3-642-34168-7

Usually dispatched within 3 to 5 business days.
Europäisches Steuerrecht

Für den Berater ergibt sich aus dem Gemeinschaftsrecht sowohl die Chance, für seinen Mandanten eine steuergünstige Gestaltung zu realisieren, als auch das Risiko, sich bei Nichtkenntnis des Gemeinschaftsrechts gegenüber seinem Mandanten Haftungsansprüchen auszusetzen. Das Werk erläutert anschaulich und praxisnah die wichtigsten Regelungen im Europäischen Steuerrecht (direkte Steuern).

Features
 Für den Berater ergibt sich aus dem Gemeinschaftsrecht sowohl die Chance, für seinen Mandanten eine steuergünstige Gestaltung zu realisieren, als auch das Risiko, sich bei Nichtkenntnis des Gemeinschaftsrechts gegenüber seinem Mandanten Haftungsansprüchen auszusetzen. Das Werk erläutert anschaulich und praxisnah die wichtigsten Regelungen im Europäischen Steuerrecht (direkte Steuern). Der [...] 

Contents

Fields of interest
 Business Taxation

Target groups
 Professional/practitioner

Type of publication
 Professional book

More on www.springer.com/978-3-8349-2298-4

Financial Instruments

Exzellente öffentliche Beschaffung

Ansatzpunkte für einen wirtschaftlichen und transparenten öffentlichen Einkauf


Features

Contents

Fields of interest
 Law and Economics; Public Administration

Target groups
 Professional/practitioner

Type of publication
 Professional book


Features

Contents
 Normzwänge und Anwendungsbereich.- Bilanzierungseinheit.- Ansatz.- Ausbuchung.- Kategorisierung.- Erstmalige Bewertung.- Folgebewertung.- Sicherungsgeschäfte.- IFRS für KMU

Fields of interest
 Financial Economics; International Economics

Target groups
 Professional/practitioner

Type of publication
 Professional book

More on www.springer.com/978-3-658-00606-8

Features

Contents
 Normzwänge und Anwendungsbereich.- Bilanzierungseinheit.- Ansatz.- Ausbuchung.- Kategorisierung.- Erstmalige Bewertung.- Folgebewertung.- Sicherungsgeschäfte.- IFRS für KMU

Fields of interest
 Financial Economics; International Economics

Target groups
 Professional/practitioner

Type of publication
 Professional book

More on www.springer.com/978-3-658-00606-8

Features

Contents
 Normzwänge und Anwendungsbereich.- Bilanzierungseinheit.- Ansatz.- Ausbuchung.- Kategorisierung.- Erstmalige Bewertung.- Folgebewertung.- Sicherungsgeschäfte.- IFRS für KMU

Fields of interest
 Financial Economics; International Economics

Target groups
 Professional/practitioner

Type of publication
 Professional book

More on www.springer.com/978-3-658-00606-8

Features

Contents
 Normzwänge und Anwendungsbereich.- Bilanzierungseinheit.- Ansatz.- Ausbuchung.- Kategorisierung.- Erstmalige Bewertung.- Folgebewertung.- Sicherungsgeschäfte.- IFRS für KMU

Fields of interest
 Financial Economics; International Economics

Target groups
 Professional/practitioner

Type of publication
 Professional book

More on www.springer.com/978-3-658-00606-8

Features

Contents
 Normzwänge und Anwendungsbereich.- Bilanzierungseinheit.- Ansatz.- Ausbuchung.- Kategorisierung.- Erstmalige Bewertung.- Folgebewertung.- Sicherungsgeschäfte.- IFRS für KMU

Fields of interest
 Financial Economics; International Economics

Target groups
 Professional/practitioner

Type of publication
 Professional book

More on www.springer.com/978-3-658-00606-8

Features

Contents
 Normzwänge und Anwendungsbereich.- Bilanzierungseinheit.- Ansatz.- Ausbuchung.- Kategorisierung.- Erstmalige Bewertung.- Folgebewertung.- Sicherungsgeschäfte.- IFRS für KMU

Fields of interest
 Financial Economics; International Economics

Target groups
 Professional/practitioner

Type of publication
 Professional book

More on www.springer.com/978-3-658-00606-8
Fixing Higher Education
A Business Manager’s Take on How to Boost Productivity in Higher Education

Christian Schierenbeck makes a provocative case that higher education across the globe suffers from a profound productivity crisis which prevents broad access to affordable and high-quality educational services. He shows how the vast productivity gap in higher education could be closed if academic managers borrowed some of the managerial practices applied by the world’s leading business enterprises. In order for this to happen in practice, the author argues for radical changes in the policy framework for higher education.

Features
Christian Schierenbeck makes a provocative case that higher education across the globe suffers from a profound productivity crisis which prevents broad access to affordable and high-quality educational services. He shows how the vast productivity gap in higher education could be closed if academic managers borrowed some of the managerial practices applied by the world’s leading business enterprises. In [...]
Führen unter Unsicherheit

Eine empirisch fundierte Typologie der Identitätsarbeit von Führungskräften


Features

Bei Führungskräften wächst angesichts einer immer komplexer werdenden und von zunehmender Unsicherheit geprägten Führungsumgebung das Bedürfnis nach Orientierungshilfen und Modellen, die geeignet sind, Handlungsfähigkeit (wieder) zu erlangen. Unter Unsicherheit zu führen wird nach wie vor als persönliches Problem definiert. Nadine Sukowski wendet das aus der therapeutischen Biografiearbeit bekannte narrative Verfahren [...]
Genussrechte

Grundlagen, Einsatzmöglichkeiten, Bilanzierung und Besteuerung


Features

Contents

Fields of interest
Business Taxation, Accounting / Auditing

Target groups
Professional/practitioner

Type of publication
Professional book

Softcover

Usually dispatched within 3 to 5 business days.

Handbook of Operations Research for Homeland Security

This new Handbook addresses the state of the art in the application of operations research models to problems in preventing terrorist attacks, planning and preparing for emergencies, and responding to and recovering from disasters. The purpose of the book is to enlighten policy makers and decision makers about the power of operations research to help organizations plan for and respond to terrorist attacks, natural disasters, and public health emergencies, while at the same time providing researchers with one single source of up-to-date research and applications. The Handbook consists of nine separate chapters: Using Operations Research Methods for Homeland Security Problems[…]

Features
This new Handbook addresses the state of the art in the application of operations research models to problems in preventing terrorist attacks, planning and preparing for emergencies, and responding to and recovering from disasters. The purpose of the book is to enlighten policy makers and decision makers about the power of operations research to help organizations plan for and respond to terrorist attacks.[…]

Contents

Fields of interest
Operation Research / Decision Theory; Appl. Mathematics / Computational Methods of Engineering; Social Policy

Target groups
Professional/practitioner

Type of publication
Handbook


Hardcover

Usually dispatched within 3 to 5 business days.

Hedonischer Konsum

Emotionen als Treiber im Konsumentenverhalten

Konsumenten orientieren sich bei der Selektion und Bewertung eines hedonischen Produktes (z.B. Süßigkeit, Hotelzimmer mit Meerblick) maßgeblich an dessen emotionaler Bedeutung. Somit ist im Kontext hedonisch geprägter Entscheidungen und Produktkategorien weniger der kognitiv determinierte, rational errechnete Nutzen, sondern vielmehr die zeitpunktspezifische emotionale Reaktion des Konsumenten auf das Produkt als eine zentrale und unmittelbare Erklärungsgröße der Evaluation zu interpretieren. Marie-Kristin Franke ermittelt zunächst wesentliche Charakteristika eines möglichen hedonischen Konsumprozessmodells, indem sie auf Basis bibliometrischer Analysen bestehende Erkenntnisse der[…]

Features

Contents

Fields of interest
Business Information Systems

Target groups
Research

Type of publication
Monograph

More on www.springer.com/978-3-8349-4390-3

Softcover

Usually dispatched within 3 to 5 business days.
Hindernislauf Marketing
Erleuchtung - Ermüdung - Durchbruch


Contents
Erleuchtung. - Ermüdung. - Durchbruch.

Fields of interest
Marketing; Business & Economics (general); Project Management

Target groups
Popular/general

Type of publication
Monograph

More on www.springer.com/978-3-658-00017-2

Hardcover
2013. 84 S. 3 in Farbe.
18,64 €

Online orders shipping within 2-3 days.

Innovation Management in Knowledge Intensive Business Services in China

In a knowledge-based economy, the development of a particular type of services, knowledge intensive business services (KIBS), becomes one of the characteristic trends in economic evolution. Current research focuses mainly on service innovation in developed countries, but little consideration is given to the situation in developing countries. Based on empirical research in the People’s Republic of China, this book aims to contribute to a better appreciation and understanding of the innovative characteristics of KIBSs in developing countries.

Features
In a knowledge-based economy, the development of a particular type of services, knowledge intensive business services (KIBS), becomes one of the characteristic trends in economic evolution. Current research focuses mainly on service innovation in developed countries, but little consideration is given to the situation in developing countries. Based on empirical research in [...]
Over the past two decades, the face of the world consumer has truly changed. Goods are more available, information about these goods is more open and accessible, and the ability to buy these goods from any corner of the earth has become possible. As a result, international marketing is more important now than ever before. In this book, Josh Samli explores the challenges facing modern international marketers. He explains what it is to have successful communication with the target market: using social media to share consistent information about products and services, communicating directly with culture-driven consumers who already communicate online amongst themselves and with[...]

Features
Over the past two decades, the face of the world consumer has truly changed. Goods are more available, information about these goods is more open and accessible, and the ability to buy these goods from any corner of the earth has become possible. As a result, international marketing is more important now than ever before. In this book, Josh Samli explores the challenges facing modern[...]

Fields of interest
Marketing; Media Management

Target groups
Research

Type of publication
Monograph


Hardcover
2013. XX, 170 p. 79 illus., 59 in color.
99,95 €

Usually dispatched within 3 to 5 business days.

International Employer Brand Management
A Multilevel Analysis and Segmentation of Students’ Preferences

The increasing globalization of business activities forces companies to recruit highly skilled employees all over the world. In order to attract these talents, employers have to differentiate themselves through a unique employer brand, appealing to diverse target audiences. However, in the absence of research on international students’ preferences for employer characteristics, it is difficult for multinational companies to decide on a feasible degree of employer brand standardization. Lena Christians investigates the impact of between-country differences, such as in national culture or economic wealth, on students’ preferences in relation to individual differences of students within[...]

Features
The increasing globalization of business activities forces companies to recruit highly skilled employees all over the world. In order to attract these talents, employers have to differentiate themselves through a unique employer brand, appealing to diverse target audiences. However, in the absence of research on international students’ preferences for employer characteristics, it is difficult for[...]

Contents

Fields of interest
Marketing; Business & Economics (general); Entrepreneurship

Target groups
Research

Type of publication
Monograph

More on www.springer.com/978-3-658-00455-2

Softcover
2013. XVIII, 265 p. 16 illus.
56,03 €
ISBN 978-3-658-00455-2

Usually dispatched within 3 to 5 business days.
Interne Unternehmenskommunikation in resilienten Organisationen

Im finanz-, wirtschafts- und gesellschaftspolitischen Umfeld von Unternehmen entladen sich potenzielle Risiken mit immer höherer Frequenz und Stärke in reale, existenzbedrohende Krisen und Umbrüche. Um in einem solchen risikobehafteten, sich schnell wandelnden Umfeld die Zukunft zu sichern und damit weiterhin Werte für ihre Bezugsgruppen schaffen zu können, müssen Unternehmen ihr Führungshandeln verstärkt darauf ausrichten, ihre Organisation widerstandsfähiger zu machen. Aus der Psychologie entlehnt, erobert derzeit der Begriff der Resilienz dieses Handlungsfeld. Die persönliche Fähigkeit, Krisen unbeschadet zu überstehen oder sogar gestärkt daraus hervor zu gehen, wird adaptiert und [...] Features

Im finanz-, wirtschafts- und gesellschaftspolitischen Umfeld von Unternehmen entladen sich potenzielle Risiken mit immer höherer Frequenz und Stärke in reale, existenzbedrohende Krisen und Umbrüche. Um in einem solchen risikobehafteten, sich schnell wandelnden Umfeld die Zukunft zu sichern und damit weiterhin Werte für ihre Bezugsgruppen schaffen zu können, müssen Unternehmen ihr Führungshandeln verstärkt [...] Contents


Fields of interest
Media Management; Personnel Management; Communication Studies; Management/Business for Professionals

Target groups
Professional/practitioner

Type of publication
Monograph

More on www.springer.com/978-3-642-30723-2

Hardcover
37,34 €
ISBN 978-3-642-30723-2
Usually dispatched within 3 to 5 business days.---

A. Ortiz, Goslar, Deutschland

Kooperation zwischen Unternehmen und Universitäten
Eine Managementperspektive zu regionalen Innovationssystemen

Universitäts-Industrie-Kooperationen stehen in ihrer Bedeutung für betriebliche Innovationssprozesse im Fokus verschiedener Zweige der Innovationsforschung. André Ortiz beleuchtet aus einer Managementperspektive die bislang ungeklärten interorganisationalen Bedingungen sowie die räumlichen und institutionellen Bezüge der Kooperation zwischen Unternehmen und Universitäten in regionalen Innovationsystemen. Die Studie stellt einen neuen Ansatz zur betriebswirtschaftlich und soziologisch fundierten Analyse von regionalen Innovationssystemen dar und eröffnet am Fall der Biotechnologie-Region München Einblicke in die Managementpraxis von Kooperationen zwischen Unternehmen und Universitäten. [...] Features

Universitäts-Industrie-Kooperationen stehen in ihrer Bedeutung für betriebliche Innovationssprozesse im Fokus verschiedener Zweige der Innovationsforschung. André Ortiz beleuchtet aus einer Managementperspektive die bislang ungeklärten interorganisationalen Bedingungen sowie die räumlichen und institutionellen Bezüge der Kooperation zwischen Unternehmen und Universitäten in regionalen Innovationssystemen. [...] Contents


Fields of interest
Management/Business for Professionals

Target groups
Research

Type of publication
Monograph

More on www.springer.com/978-3-8349-4398-9

Hardcover
2013. XIV, 416 p.
74,72 €
ISBN 978-3-8349-4398-9
Online orders shipping within 2-3 days.

Luxury Marketing
A Challenge for Theory and Practice

The luxury market has transformed from its traditional conspicuous consumption model to a new experiential luxury sensibility that is marked by a change in how consumers define luxury. In a global context, it is crucial to understand why consumers buy luxury, what they believe luxury is, and how their perception of luxury value impacts their buying behavior. This handbook aims to provide a holistic approach to luxury marketing with respect to the characteristics and the key challenges and opportunities of luxury brand management. Therefore, the multifaceted contributions by authors from different parts of the world will offer both a research and management perspective of luxury [...] Features

Luxury Marketing: A Challenge for Theory and Practice
The luxury market has transformed from its traditional conspicuous consumption model to a new experiential luxury sensibility that is marked by a change in how consumers define luxury. In a global context, it is crucial to understand why consumers buy luxury, what they believe luxury is, and how their perception of luxury value impacts [...] Contents


Fields of interest
Marketing, Management/Business for Professionals

Target groups
Professional/practitioner

Type of publication
Professional book

More on www.springer.com/978-3-8349-4398-9

Hardcover
2013. XIV, 416 p.
74,72 €
ISBN 978-3-8349-4398-9
Online orders shipping within 2-3 days.
Management organisationaler Anpassungsprozesse

Transformationsvorgaben durch geeignete Informationsbasis erfolgreich planen und umsetzen


Features

Contents

Fields of interest
Business & Economics (general)
**Management von Biogas-Projekten**

Rechtliche, technische und wirtschaftliche Aspekte


**Features**


**Contents**

1 Einleitung: Zukunftsperspektiven und Herausforderungen des Biogas-Marktes. - 2 Projektfinanzierung eines Biogas-Projektes. - 3 Rechtliche und sozio-ökonomische Rahmenbedingungen. - 4 Technische Aspekte. - 4 Wirtschaftliche Aspekte.[…]

**Fields of interest**

Environmental Economics; Commercial Law; Renewable and Green Energy

**Target groups**

Professional/practitioner

**Type of publication**

Professional book

More on www.springer.com/978-3-642-20955-0

**Hardcover**

2013. XXIV, 356 S. 68 Abb.

ISBN 978-3-642-20955-0

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

---

**Managing Open Innovation Technologies**

Open innovation increases the profit of companies and organizations via the input and the adoption of new ideas that are transformed into new processes, products, and services. Yet, how do we ensure that adopters of such innovations focus on relevant problems and use appropriate methods? How should we manage open innovation technologies? How can we exploit distributed knowledge and inventions? And how can we promote them successfully on the market? With valuable lessons to be learned from academic research and industrial experiences of e.g. Intel, Nokia, Philips Healthcare, small municipalities, e-learning platforms and user communities, this book focuses on some of the key[…]

**Features**

Open innovation increases the profit of companies and organizations via the input and the adoption of new ideas that are transformed into new processes, products, and services. Yet, how do we ensure that adopters of such innovations focus on relevant problems and use appropriate methods? How should we manage open innovation technologies? How can we exploit distributed knowledge and inventions? And how can[…]

**Contents**


**Fields of interest**

Technology Management; Management of Computing and Information Systems; Computers and Society; Organization / Planning

**Target groups**

Research

**Type of publication**

Monograph

More on www.springer.com/978-3-642-31649-4

**Hardcover**

2013. X. 290 p. 28 illus.

129,95 €

ISBN 978-3-642-31649-4

**Usually dispatched within 3 to 5 business days.**
Mathematik für Wirtschaftswissenschaftler
Das ECOMath-Handbuch


Features  
Basiierend auf langjährigen Erfahrungen des Autors aus Vorlesungstypen zur „Mathematik für Wirtschaftswissenschaftler“ an der Universität Paderborn, vermittelt dieses Handbuch die mathematischen Grundlagenkenntnisse, die für ein erfolgreiches Bachelor- und Master-Studium unerlässlich sind. Thematisch wird der Stoff des gesamten ersten Studienjahres abgedeckt: Methoden der eindimensionalen reellen Analysis [...]  

Fields of interest  
Economics; Analysis  

Target groups  
Upper undergraduate  

Type of publication  
German textbook  

More on www.springer.com/978-3-642-29984-1  

Hardcover  
2012. XII, 1120 S. (Springer-Lehrbuch)  
46,68 €  
ISBN 978-3-642-29984-1  

Online orders shipping within 2-3 days.  

Mediaplanung  
Methodische Grundlagen und praktische Anwendungen  

Die gesamte aktuelle Thematik der Mediaplanung zeigt, wie ein gegebenes quantitatives Kommunikationsziel durch geeignete Auswahl der Werbeträger möglichst kostengünstig realisiert werden kann. Es wird aufgezeigt, wie Mediaplanung in die gesamte Marketingkommunikation integriert wird. Die Mediaplanung selbst wird als Entscheidungsprozess behandelt, ausgehend von der Mediaplanung, der Marktsegmentierung, der Zielbestimmung, dem Einfluss der Kommunikationsinhalte auf die Mediätsentscheidung und der Budgetierung. Einen Hauptteil stellt die Mediaforschung als Informationsbasis für die Mediaplanung dar sowie die Behandlung der verschiedenen Medialagattungen: Fernsehen, Zeitschriften, [...]  

Features  
Die gesamte aktuelle Thematik der Mediaplanung zeigt, wie ein gegebenes quantitatives Kommunikationsziel durch geeignete Auswahl der Werbeträger möglichst kostengünstig realisiert werden kann. Es wird aufgezeigt, wie Mediaplanung in die gesamte Marketingkommunikation integriert wird. Die Mediaplanung selbst wird als Entscheidungsprozess behandelt, ausgehend von der Mediaplanung, der Marktsegmentierung, [...]  

Contents  

Fields of interest  
Marketing; Management/Busines for Professionals; Media Management  

Target groups  
Professional/practitioner  

Type of publication  
Professional book  

More on www.springer.com/978-3-642-30656-3  

Hardcover  
2013. XXV, 418 S.  
46,68 €  
ISBN 978-3-642-30656-3  

Usually dispatched within 3 to 5 business days.  

Morality and Corporate Governance: Firm Integrity and Spheres of Justice  

Firms, the most significant nucleus of modern economic activity, are very special social organisations with economic purposes and also a responsibility for pursuing the welfare of all ranks of society. This requires moral commitment at a subjective and collective level, i.e. ethics. In this book, a renowned author with long experience as a consultant to large firms explores the relationship between moral action and economic action with particular reference to the firm. Diverse aspects of corporate responsibility – social, civil, political, and environmental – within a rapidly changing world are investigated from a philosophical perspective. Prerequisites for self-regulation are [...]  

Features  
Firms, the most significant nucleus of modern economic activity, are very special social organisations with economic purposes and also a responsibility for pursuing the welfare of all ranks of society. This requires moral commitment at a subjective and collective level, i.e. ethics. In this respect, firms are subject both to Anglo-Saxon good governance practice and to the rules that may arise from human [...]  

Contents  

Fields of interest  
Non-Profit Enterprises/Corporate Social Responsibility; Organizational Studies; Economic Sociology; Ethics  

Target groups  
Graduate  

Type of publication  
Graduate/advanced undergraduate textbook  

More on www.springer.com/978-88-470-2783-1  

Softcover  
49,95 €  
ISBN 978-88-470-2783-1  

Usually dispatched within 3 to 5 business days.
Nahhaltigkeit
Unternehmerisches Handeln in globaler Verantwortung


Features

Contents
Nahhaltigkeitsstrategien - Einbindung der Nahhaltigkeit in die Betriebswirtschaftslehre - Nahhaltigkeits-Marketing - Nahhaltige Logistik - Nahhaltige Produktion - Nahhaltigkeits-Berichterstattung

Fields of interest
Business & Management Science

Target groups
Professional/practitioner

Type of publication
Professional book

More on www.springer.com/978-3-8349-3179-5

Softcover
2012. X, 285 S.
65,37 €
ISBN 978-3-8349-3179-5

Usually dispatched within 3 to 5 business days.

National Intellectual Capital and the Financial Crisis in China, Hong Kong, Singapore, and Taiwan

In the first decade of the twenty-first century, the biggest event of worldwide proportion was the 2008 global financial crisis, which was caused primarily by ineffective governance, failed surveillance systems, and implementation flaws. While fiscal and monetary policies succeeded in pulling many countries out of a financial freefall, most economies have performed beneath pre-recession levels as governments continued to struggle with their finances. Examining the financial crisis from the viewpoint of intangible assets provides a different perspective from traditional economic approaches. National Intellectual Capital (NIC), comprised mainly of human capital, market capital [...] 

Features
In the first decade of the twenty-first century, the biggest event of worldwide proportion was the 2008 global financial crisis, which was caused primarily by ineffective governance, failed surveillance systems, and implementation flaws. While fiscal and monetary policies succeeded in pulling many countries out of a financial freefall, most economies have performed beneath pre-recession levels as [...] 

Contents

Fields of interest
Economic Growth; Economic Policy; R & D / Technology Policy; Regional Science

Target groups
Research

Type of publication
Brief


Softcover
2013. XXV, 96 p. Illus. in color. (SpringerBriefs in Economics, Vol. 8) 49,95 €

Usually dispatched within 3 to 5 business days.

National Intellectual Capital and the Financial Crisis in Greece, Italy, Portugal, and Spain

In the first decade of the twenty-first century, the biggest event of worldwide proportion was the 2008 global financial crisis, which was caused primarily by ineffective governance, failed surveillance systems, and implementation flaws. While fiscal and monetary policies succeeded in pulling many countries out of a financial freefall, most economies have performed beneath pre-recession levels as governments continued to struggle with their finances. Examining the financial crisis from the viewpoint of intangible assets provides a different perspective from traditional economic approaches. National Intellectual Capital (NIC), comprised mainly of human capital, market capital [...] 

Features
In the first decade of the twenty-first century, the biggest event of worldwide proportion was the 2008 global financial crisis, which was caused primarily by ineffective governance, failed surveillance systems, and implementation flaws. While fiscal and monetary policies succeeded in pulling many countries out of a financial freefall, most economies have performed beneath pre-recession levels as [...] 

Contents

Fields of interest
Economic Growth; Economic Policy; R & D / Technology Policy; Regional Science

Target groups
Research

Type of publication
Brief

More on www.springer.com/978-1-4614-5989-7

Softcover
ISBN 978-1-4614-5989-7

Usually dispatched within 3 to 5 business days.
**Options in Alliances**

**Valuing Flexibility in Inter-Firm Collaborations**

The real options-based conceptual framework for alliance-making presented here responds to the challenge of developing a new metrics for managing strategic partnerships in the face of uncertainty. Such a framework involves: mapping (and selecting one of) the various staged paths envisioned for the start-up and development of the alliance in terms of strategic options exercisable over the lifetime of the cooperative venture; assessing the incremental, synergistic value of those options (if exercised on the net, tangible and intangible, assets of the venture); anticipating the potential impact of risks on the success/failure of the venture and associated synergistic value erosions.[...]

**Features**

The real options-based conceptual framework for alliance-making presented here responds to the challenge of developing a new metrics for managing strategic partnerships in the face of uncertainty. Such a framework involves: mapping (and selecting one of) the various staged paths envisioned for the start-up and development of the alliance in terms of strategic options exercisable over the lifetime of the [...]

**Contents**


**Fields of interest**

Business Strategy/Leadership; Finance / Banking

**Target groups**

Research

**Type of publication**

Brief


**Softcover**

2013. VI, 79 p. 7 illus. (SpringerBriefs in Business) 49,95 €

ISBN 978-88-470-2849-4

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

---

**Organizational Learning**

**Creating, Retaining and Transferring Knowledge**

Why do some organizations learn at faster rates than others? Why do organizations “forget”? Could productivity gains acquired in one part of an organization be transferred to another? These are among the questions addressed in Organizational Learning: Creating, Retaining and Transferring Knowledge. Since its original publication in 1999, this book has set the standard for research and analysis in the field. This fully updated and expanded edition showcases the most current research and insights, featuring a new chapter that provides a theoretical framework for analyzing organizational learning and presents evidence about how the organizational context affects learning processes.[...]

**Features**

Why do some organizations learn at faster rates than others? Why do organizations “forget”? Could productivity gains acquired in one part of an organization be transferred to another? These are among the questions addressed in Organizational Learning: Creating, Retaining and Transferring Knowledge. Since its original publication in 1999, this book has set the standard for research and analysis in [...]

**Contents**


**Fields of interest**

Personnel Management; Organization / Planning; Business Strategy/Leadership

**Target groups**

Research

**Type of publication**

Monograph


**Hardcover**

2013. X, 217 p. 11 illus. 99,95 €

ISBN 978-1-4614-5250-8

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

---

**Origins of the German Welfare State**

**Social Policy in Germany to 1945**

This book traces the origins of the German welfare state. The author, formerly director at the Max-Planck-Institute for European Legal History,Frankfurt, provides a perceptive overview of the history of social security and social welfare in Germany from early modern times to the end of World War II, including Bismarck’s pioneering introduction of social insurance in the 1880s. The author unravels “layers” of social security that have piled up in the course of history and, so he argues, still linger in the present-day welfare state. The account begins with the first efforts by public authorities to regulate poverty and then proceeds to the “social question” that arose during the[...]

**Features**

The book is part of the 5-volume series “German Social Policy”, a unique multidisciplinary approach to the history of German social policy written by the doyens of their respective disciplines. The volumes expound the contribution of the German tradition to the rise of social policy in the Western world in the 19th and 20th centuries. Germany pioneered modern social policy in the [...]

**Contents**


**Fields of interest**

Social Policy; Labour Law / Social Law; Political Science, general; History

**Target groups**

Research

**Type of publication**

Monograph

More on [www.springer.com/978-3-642-22521-5](http://www.springer.com/978-3-642-22521-5)

**Hardcover**

2013. XII, 188 p. 2 illus. (German Social Policy, Vol. 2) 99,95 €

ISBN 978-3-642-22521-5

**Usually dispatched within 3 to 5 business days.**
A.F. Schirmacher, Der Platow Brief, Frankfurt/Main; F. Mahlmeister, Der Platow Brief, Frankfurt/Main (Eds.)

**PLATOW Prognose 2013**

*Euro Krise – So retten Sie Ihr Geld*


**Features**

Europas Lage ist besser als es scheint. Die Märkte haben in der Euro-Krise bereits ein erhebliches Maß an Anpassung eingefordert. Während Griechenland ein hoffnungloser Fall bleibt, macht die Wettbewerbsfähigkeit in anderen Teilen Südeuropas bereits deutlich Fortschritte. Mit der nur eine kurze Verschlußpause einleitenden Wachstumslokomotive Deutschland im Zentrum wird mit Europa schon ab der zweiten [...]  

**Contents**


**Features**


**Contents**


**Fields of interest**

Finance / Banking  

**Target groups**

Professional/practitioner

**Type of publication**

Professional book  

More on [www.springer.com/978-3-943145-10-6](http://www.springer.com/978-3-943145-10-6)

**Hardcover**


36,45 €  

ISBN 978-3-943145-10-6  

Online orders shipping within 2-3 days.

---

R. Koch, Universität der Bundeswehr Hamburg; R. Vogel, Zepelin Universität, Friedrichshafen a. Bodensee

**Paradigmkonkurrenz im Public Management**

Zur Kritik des Diskurses um Management-Entwicklungen  

Aus einem bereits gesellschaftlich auferlegten Zusammenspiel von versstärker politischer Nachfrage und auch demgemäß wissenssinnig angestoßenen Wissensangeboten führen die Autoren einen Diskurs um die Optionen der Managemententwicklung, der zwar, kurz gesagt, zu politisch-opportun angepassten Konzeptentwicklungen führen mag, dabei aber im Versuch der eingeengten akademischen Rezensionssicherung Gefahr läuft, sehr stark perspektivisches, wenn nicht gar ideologisches Wissen zu produzieren - legitimatorisches nützliches, faktisch aber wenig brauchbares Wissen. Ob und inwieweit ein solches Zusammenspiel erlaubt, für den Bereich des Public Managements zu verbessern...[

**Features**

Wie im Falle anderer Wissenschaften ist man auch im Public Management im Interesse seiner nachhaltigen Institutionalisierung als akademische Disziplin darauf angewiesen, sich in der Reaktion auf einschlägige gesellschaftliche Nachfragen nun auch im Rahmen stetig konkurrierender Paradigmen des Managements als Produzenten erfolgsverbürgender bzw. praktisch wirksamen Wissens durchsetzen zu müssen. Die in [...]  

**Contents**


**Fields of interest**

Business & Economics (general); Public Administration; Business & Management Science  

**Target groups**

Research  

**Type of publication**

Professional book  

More on [www.springer.com/978-3-8349-4414-6](http://www.springer.com/978-3-8349-4414-6)

**Softcover**

2013. VII, 187 S.  

37,34 €  

ISBN 978-3-8349-4414-6  

Usually dispatched within 3 to 5 business days.
The events taking place in several of South Mediterranean countries since December 2010 show that multiple deprivations may be powerful drivers of political instability. Though improvements of the living conditions have been regularly principal demands along with civil and political liberties in the demonstrations, one of the main striking facts about this so-called “Arab Spring” is that poverty had not been given the same emphasis in southern Mediterranean countries during the last decades as in other areas of the developing and emerg- ing world.Although the growing recognition that poverty is a multidimensional concept, studies of poverty in South Mediterranean countries have often [...]
Prozessmanagement

Modelle und Methoden


Features


Contents


Fields of interest

Business & Management Science; Business Information Systems

Target groups

Graduate

Type of publication

Graduate/advanced undergraduate textbook

More on www.springer.com/978-3-642-33009-4

Softcover

2012. XII, 227 S. 80 Abb. 27,99 €
ISBN 978-3-642-33009-4

Usually dispatched within 3 to 5 business days.

Prozessorientiertes Supply Chain Engineering

Strategien, Konzepte und Methoden zur modellbasierten Gestaltung


Features


Contents


Fields of interest

Production / Logistics

Target groups

Research

Type of publication

Monograph

More on www.springer.com/978-3-658-00268-8

Softcover

2012. XVI, 615 S. 206 Abb. 74,72 €
ISBN 978-3-658-00268-8

Usually dispatched within 3 to 5 business days.

Quintessenz der Vertrauensbildung


Features


Contents


Fields of interest

Business Strategy/Leadership; Personnel Management; Management/Business for Professionals

Target groups

Professional/practitioner

Type of publication

Monograph

More on www.springer.com/978-3-642-31384-4

Hardcover

2012. VI, 136 S. 17 Abb. (Quintessenz-Reihe) 23,32 €
ISBN 978-3-642-31384-4

Usually dispatched within 3 to 5 business days.
Real Options and Strategic Technology Venturing

A New Paradigm in Decision Making

This book seeks to answer “why, when and how are real options used in strategic technology venturing?” This work tests for the role of real options in decision making involving three types of firms in decreasing order of technology-dependence – technology-driven (TD) (where the profit is fully dependent on new technology creation and leveraging), technology-based (TB) (where the profit is enabled and supported by technology) and technology-neutral (TN) (where the profit is almost independent of technology). It also deals with strategic and non-strategic types of decisions driven by real options. This analysis shows that an environment presenting co-opetitive (simultaneous competitive and cooperative) behavior is associated with higher real option usage.

Features
This book seeks to answer “why, when and how are real options used in strategic technology venturing?” This work tests for the role of real options in decision making involving three types of firms in decreasing order of technology-dependence – technology-driven (TD) (where the profit is fully dependent on new technology creation and leveraging), technology-based (TB) (where the profit is enabled and supported by technology) and technology-neutral (TN) (where the profit is almost independent of technology). It also deals with strategic and non-strategic types of decisions driven by real options. This analysis shows that an environment presenting co-opetitive (simultaneous competitive and cooperative) behavior is associated with higher real option usage.

Contents

Fields of interest
Technology Management; R & D / Technology Policy; Finance / Banking

Target groups
Research

Type of publication
Brief


Softcover
49,95 €
Usually dispatched within 3 to 5 business days.

Recent Developments in Foresight Methodologies

Foresight is an area within Futures Studies that focuses on critical thinking concerning long term developments, whether within the public sector or in industry and management, and is something of a sub-section of complexity and network science. This book examines developments in foresight methodologies and relates in its greater part to the work done in the context of the COSTA22 network of the EU on Foresight Methodologies. Foresight is a professional practice that supports significant decisions, and as such it needs to be more assured of its claims to knowledge (methodology). Foresight is practiced across many domains and is not the preserve of specialized ‘futurists’, or indeed of […]

Features
Foresight is an area within Futures Studies that focuses on critical thinking concerning long term developments, whether within the public sector or in industry and management, and is something of a sub-section of complexity and network science. This book examines developments in foresight methodologies and relates in its greater part to the work done in the context of the COSTA22 network of the EU on […]

Contents
In Search of Foresight Methodologies: Riddle or Necessity.- Defining the Future: Concepts and Definitions as Linguistic Fundamentals of Foresight.- Classification of Tools and Approaches Applicable in Foresight Studies.- Classification of Tools and Approaches Applicable in Foresight Studies.- Bridging Qualitative and Quantitative Methods in Foresight.- The Meaning of Wild Cards and High Impact Issues as Future Shapers and Shakers. Forms of Reasoning in Pattern Management and in Strategic Intelligence.- Micro-meso-macro: From the Heritage of the Oracle to Foresight.- From Narrative to […]

Fields of interest
Planning

More on www.springer.com/978-3-658-00634-1

Softcover
2013. XV, 224 p. 9 illus.
56,03 €
ISBN 978-3-658-00634-1
Usually dispatched within 3 to 5 business days.
Risikomanagement im Unternehmen

Real- und finanzwirtschaftlicher Ansatz für internationale Unternehmen und Finanzintermediäre

Das Buch bietet eine kompakte Einführung in entscheidungsorientiertes Risikomanagement. Die Autoren berücksichtigen dabei die Usancen auf globalen Märkten. Das Werk ist sowohl für Bachelor- als auch für Master-Studiengänge geeignet.

Features
Risikomanagement im Unternehmen Dieses Buch schließt eine Lücke im wissenschaftlichen Bachelor- und Masterstudium, indem es ein real- und finanzwirtschaftliches Risikomanagement für internationale Unternehmen und Finanzintermediäre in den Mittelpunkt der einzelnen Beiträge stellt. Jedes Kapitel kann für sich erarbeitet und im Rahmen einer Vorlesung, einer Übung oder einen Seminars behandelt. [...]"
Social-Responsive Balanced Scorecard

Wie Unternehmen gesellschaftliche Verantwortung in Kennzahlen umsetzen

Die Autoren stellen das Konzept der Social-Responsive Balanced Scorecard vor: Im Mittelpunkt steht ein System von Kennzahlen, das über die marktbegogene auch eine nichtmarktliche Gesellschaftsperspektive berücksichtigt, und ein Managementsystem, das es erlaubt, eine Unternehmenskultur von einer Vision und einer Zielsetzung her dahingehend zu formen, dass die Übernahme gesellschaftlicher Verantwortung nicht mehr als überflüssig und belastend empfunden wird. Unternehmensstrategie wird gerade auch im Hinblick auf den finanziellen und ökonomischen Erfolg konsequent in die Entscheidungen einbezogen und in ihrem Potenzial voll ausgeschöpft, sodass eine Win-win-Situation entsteht, in der das [...] 

Features
Social-Responsive Balanced Scorecard 

Contents

Features

Contents

TOPS 2013 - Vermögensmanagement im Test

Das Risiko im Griff


Features

Contents

TOPS 2013 - Vermögensmanagement im Test

Das Risiko im Griff


Features

Contents
The Real Issues of the Middle East and the Arab Spring
Addressing Research, Innovation and Entrepreneurship

The wave of protests and populist uprisings in the Middle East has heightened the focus on a volatile region. But the emphasis on political issues has obscured underlying issues concerning education, infrastructure, research, innovation, entrepreneurship and sustainable economic and social development. This volume, emerging in the aftermath of a conference and workshop on science and technology in the region, presents contributions from a range of experts from the Middle East, Europe, and the United States to provide fresh new insights and perspectives on the challenges and prospects for regional development in the changing global context of our time. The authors explore such topics[

Features

The wave of protests and populist uprisings in the Middle East has heightened the focus on a volatile region. But the emphasis on political issues has obscured underlying issues concerning education, infrastructure, research, innovation, entrepreneurship and sustainable environmental and social development. This volume, emerging in the aftermath of a conference and workshop on science and technology in the [...]
Theorie und Praxis des Dienstleistungsmarketing

Aktuelle Konzepte und Entwicklungen

The book traces the political history of the concept of social policy. „Social policy“ originated in Germany in the mid 19th century as a scholarly term that made a career in politics. The term became more prominent only after World War II. Kaufmann, the doyen of the sociology of social policy in Germany, argues that „social policy“ responds to the modern disjunction between „state“ and „society“ diagnosed by the German philosopher Hegel. Hegel’s disciple Lorenz von Stein saw social policy as a means to pacify the capitalist class conflict. After World War II, social policy expanded in an unprecedented way, changing its character in the process. Social policy turned from class[...]

Features

The book is part of the 5-volume series "German Social Policy", a unique multidisciplinary approach to the history of German social policy written by the doyens of their respective disciplines. The volumes expound the contribution of the German tradition to the rise of social policy in the Western world in the 19th and 20th centuries. Germany pioneered modern social policy in the [...]
Weather through Integration
Regional Integration and Poverty-Reduction Strategies in West Africa

Could regional integration be a first step toward joining the global market? In a context where liberalizing trade has not produced the expected gains in developing countries and growth in global trade has not led to the expected economic growth, an alternative solution has emerged. This new paradigm suggests that trade liberalization should be accompanied by public investment. However, by its very nature, trade liberalization leads to a reduction in revenues from duties and taxes, which means that the available resources for public investments will also be reduced. There are now solid arguments for encouraging the less-developed countries to first emphasize regional integration.

Features
Could regional integration be a first step toward joining the global market? In a context where liberalizing trade has not produced the expected gains in developing countries and growth in global trade has not led to the expected economic growth, an alternative solution has emerged. This new paradigm suggests that trade liberalization should be accompanied by public investment. However, by its very nature, trade liberalization leads to a reduction in revenues from duties and taxes, which means that the available resources for public investments will also be reduced. There are now solid arguments for encouraging the less-developed countries to first emphasize regional integration.

Contents

Fields of interest
Development Economics; Economic Growth; Economic Policy

Target groups
Research

Type of publication
Contributed volume

More on springer.com/978-1-4614-4414-5

Wissens- und Technologietransfer durch Hochschulen aus einer marktorientierten Perspektive

Ansatzpunkte zur Gestaltung erfolgreicher Transferprozesse an Universitäten und Fachhochschulen


Features
Tobias Kesting ermittelt konkrete Ansatzpunkte dafür, wie Prozesse des Hochschul-Wissens- und Technologietransfers (WTT) erfolgreich gestaltet werden können und legt dabei einen besonderen Schwerpunkt auf den Nutzen für die Transferbeteiligten. Der Autor beleuchtet inter-organisatorische Transferaktivitäten aus einer explizit marktorientierten Perspektive und leistet damit einen maßgeblichen Theoriebeitrag.

Contents
Wissens- und Technologietransfer; Hochschulmarketing; Dienstleistungsmarketing; Science-to-Business-Marketing; Forschung und Innovation; Transfermittel.

Fields of interest
Marketing

Target groups
Research

Type of publication
Monograph

More on www.springer.com/978-3-658-00718-8

Softcover
2013. XX, 420 S. 35 Abb. 56,03 € ISBN 978-3-658-00718-8

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

P. Hughes, Australian National University, Canberra, Australia (Ed.)

**Achieving Quality Education for All**

Perspectives from the Asia-Pacific Region and Beyond

Due to the development of the international Education for All and Education for Sustainable Development movements, for which UNESCO is the lead agency, there has been an increasing emphasis on the power of education and schooling to help build more just and equitable societies. Thus giving everyone the opportunity to develop their talents to the full, regardless of characteristics such as gender, socio-economic status, ethnicity, religious persuasion, or regional location. As enshrined in the United Nations Declaration on Human Rights over five decades ago, everyone has the right to receive a high quality and relevant education. In order to try to achieve this ideal, many countries [...]  

**Features**

Due to the development of the international Education for All and Education for Sustainable Development movements, which UNESCO is the lead agency, there has been an increasing emphasis on the power of education and schooling to help build more just and equitable societies. This seeks to give everyone the opportunity to develop their talents to the full, regardless of characteristics such as gender, [...]  

**Contents**


**Fields of interest**

International and Comparative Education; Educational Policy and Politics; Lifelong Learning / Adult Education  

**Target groups**

Research  

**Type of publication**

Contributed volume  

More on www.springer.com/978-94-007-5293-1

**Hardcover**

2013. XVI, 244 p. 4 illus. (Education in the Asia-Pacific Region: Issues, Concerns and Prospects, Vol. 20)  

ISBN 978-94-007-5293-1  

Usually dispatched within 3 to 5 business days.

---

M. Rothland, Westfälische Wilhelms-Universität Münster, Deutschland (Ed.)

**Belastung und Beanspruchung im Lehrerberuf**

**Modelle, Befunde, Interventionen**

Das Thema Belastung und Beanspruchung im Lehrerberuf bildet einen Schwerpunkt der empirischen Forschung zum Lehrerberuf. In der zweiten Auflage des Lehrbuchs wird auf der Basis aktueller Forschungsbefunde und Fachdiskussionen ein verständlicher und orientierender Überblick zu den Grundlagen, Modellen, aktuellen Forschungsansätzen und -ergebnissen gegeben. Vor allem für Studierende - aber auch für Lehrerinnen und Lehrer, Schulleitungen und alle am Lehrerberuf Interessierten - werden die Ansätze und Befunde der Forschung zur Belastung und Beanspruchung im Lehrerberuf komprimiert und einführend erläutert. Alle Beiträge wurden für die zweite Auflage überarbeitet, aktualisiert und um[...]

**Features**

Das Thema Belastung und Beanspruchung im Lehrerberuf bildet einen Schwerpunkt der empirischen Forschung zum Lehrerberuf. In der zweiten Auflage des Lehrbuchs wird auf der Basis aktueller Forschungsbefunde und Fachdiskussionen ein verständlicher und orientierender Überblick zu den Grundlagen, Modellen, aktuellen Forschungsansätzen und -ergebnissen gegeben. Vor allem für Studierende - aber auch für[...]

**Contents**


**Fields of interest**

Education (general); Teaching and Teacher Education  

**Target groups**

Upper undergraduate  

**Type of publication**

German textbook  

More on www.springer.com/978-3-531-18246-9

**Hardcover**

2013. VI, 286 S. 48 Abb.  

23,32 €  

ISBN 978-3-531-18246-9  

Usually dispatched within 2-3 days.

---

M. Kieselhorst, HAWK Hildesheim, Deutschland; S. Brée, HAWK Hildesheim, Deutschland; N. Neuß, Justus-Liebig-Universität Gießen, Deutschland

**Beobachtung kindlicher Selbstbildungsprozesse**

Deutungskompetenzen frühpädagogischer Fachkräfte

Die Beobachtung und Deutung kindlicher Bildungssprozesse ist derzeit eines der zentralen Themen in der Frühpädagogik. Im Fokus der vorliegenden Untersuchung stehen die Deutungskompetenzen der Fachkräfte im frühpädagogischen Bereich. Im Rahmen des „Forschungsverbundes frühkindliche Bildung und Entwicklung Niedersachsen“ wurden die Beobachtungs- und Deutungsprozesse von Mitarbeitenden in Kindertagesstätten rekonstruiert. Die Ergebnisse dieser Untersuchung werden in diesem Buch zusammengefasst und diskutiert. Das Buch gibt wichtige Impulse für die Professionalisierung in den Bereichen Beobachtung und Deutung kindlicher Selbstbildungsprozesse sowie für die Aus- und Weiterbildung von[...]

**Features**

Die Beobachtung und Deutung kindlicher Bildungssprozesse ist derzeit eines der zentralen Themen in der Frühpädagogik. Im Fokus der vorliegenden Untersuchung stehen die Deutungskompetenzen der Fachkräfte im frühpädagogischen Bereich. Im Rahmen des „Forschungsverbundes frühkindliche Bildung und Entwicklung Niedersachsen“ wurden die Beobachtungs- und Deutungsprozesse von Mitarbeitenden in[...]

**Contents**

Beobachtung und Deutung - Deutungsmuster, symbolische Ordnungen, Wissensformen - Selbstbildungsprozesse - Deutungspfade - Elemente der Deutungspfade: Themen und stimmengenetische Typen.  

**Fields of interest**

Education (general); Childhood Education; Science Education  

**Target groups**

Professional/practitioner  

**Type of publication**

Professional book  

More on www.springer.com/978-3-531-19732-6

**Softcover**


27,99 €  

ISBN 978-3-531-19732-6  

Usually dispatched within 3 to 5 business days.
Common Characteristics and Unique Qualities in Preschool Programs

Global Perspectives in Early Childhood Education

We live in a world that is transitioning from focus on early childhood education within individual countries into a global perspective that considers how early childhood education is conducted in many diverse cultures and environments. The challenge on a global basis is how to develop programs in countries and environments that are different from a specifically western perspective. Economic, geographic, and cultural influences influence early childhood programs around the world. In 1999, a group of educators representing 36 countries developed guidelines for establishing minimum standards for preschool programs. A purpose for developing the guidelines was to provide guidance for [...]

Features
We live in a world that is transitioning from focus on early childhood education within individual countries into a global perspective that considers how early childhood education is conducted in many diverse cultures and environments. The challenge on a global basis is how to develop programs in countries and environments that are different from a specifically western perspective. Economic, geographic, [...]

Contents

Fields of interest
Childhood Education; Assessment, Testing and Evaluation

Target groups
Research

Type of publication
Contributed volume

More on www.springer.com/978-94-007-4971-9

Hardcover
2013, XVI, 180 p. 32 illus. (Educating the Young Child, Vol. 5)
99,95 €
ISBN 978-94-007-4971-9
Usually dispatched within 3 to 5 business days.

---

Competency-based Language Teaching in Higher Education

Spanning the divide between the theory and praxis of competency-based teaching in tertiary language education, this volume contains invaluable practical guidance for the post-secondary sector on how to approach, teach, and assess competencies in Bologna-adapted systems of study. It presents the latest results of prominent European research projects, programs of pedagogical innovation, and thematically linked academic networks. Responding to a profound need for a volume addressing the practical aspects of the newly designed language degrees now being rolled out across Europe, this essential contribution pools the insights of a prestigious set of scholars, practitioners, and policy [...]

Features
Spanning the divide between the theory and praxis of competency-based teaching in tertiary language education, this volume contains invaluable practical guidance for the post-secondary sector on how to approach, teach, and assess competencies in Bologna-adapted systems of study. It presents the latest results of prominent European research projects, programs of pedagogical innovation, and thematically [...]

Contents

Fields of interest
Language Education; Learning and Instruction; Applied Linguistics

Target groups
Research

Type of publication
Contributed volume

More on www.springer.com/978-94-007-5385-3

Hardcover
2013, XIV, 194 p. 22 illus. (Educational Linguistics, Vol. 14)
99,95 €
ISBN 978-94-007-5385-3
Usually dispatched within 3 to 5 business days.
Der Wunsch nach mehr Praxis
Zur Bedeutung von Praxisphasen im Lehramtsstudium


Features
In der Diskussion um die Qualität in der Lehrerbildung geht es vor allem um die Frage der Relevanz und Integration von Praxisphasen. Im Kontext der bildungspolitischen Reformdiskussionen rund um die Organisation und Strukturierung der Lehramtsausbildung erscheinen Praxiserfahrungen und Berufsfeldorientierung nahezu per se als Qualitätsmerkmale. Wie aber gehen Studierende mit diesen Ausbildungsformen um und […]

Contents

Fields of interest
Teaching and Teacher Education; Educational Policy and Politics

Target groups
Professional/practitioner

Type of publication
Professional book

More on www.springer.com/978-3-658-00394-4

Educational Media and Technology Yearbook
Volume 37

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 2012. This latest edition, volume 37, from the Association for Education, Communication, and Technology (AECT) notes the most current trends in the field of learning design and technology, taking into account the implications for both formal and informal learning. The majority of articles train their focus on graduate and professional goals, including an analysis of doctoral programs in educational technology and new collaborative learning platforms. Library science is at […]

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 2012. This latest edition, volume 37, from the Association for Education, Communication, and Technology (AECT) notes the most current trends in the field of learning design and technology, taking […]

Contents
- Introduction to Media and Technology Programs.
- Current Trends in Learning Design and Technology.
- Leading Programs in LDT.
- Current Trends and Issues in Library and Information Sciences.
- Updates from Leading Library Science Programs and Scholars.
- Leadership Profiles in Media and Technology.
- Organizations and Associations in Media and Technology.
- Graduate Programs in ILS or IDT.

Fields of interest
Educational Technology; Library Science; Learning and Instruction

Target groups
Research

Type of publication
Yearbook

More on www.springer.com/978-1-4614-4429-9

Emerging Technologies for the Classroom
A Learning Sciences Perspective

This book provides contemporary examples of the ways in which educators can use digital technologies to create effective learning environments that support improved learning and instruction. These examples are guided by multiple conceptual and methodological traditions evolving from the learning sciences and instructional technology communities as well as other communities doing important work on learning technologies. In particular, the book provides examples of technology innovations and the ways in which educators can use them to foster deep understanding, collaboration, creativity, invention, and reflection. Additional examples demonstrate the ways in which emerging mobile and […]

Features
This book provides contemporary examples of the ways in which educators can use digital technologies to create effective learning environments that support improved learning and instruction. Guided by multiple conceptual and methodological traditions evolving primarily from the learning sciences and instructional technology communities, the book offers readers a myriad of technologic […]

Fields of interest
Educational Technology; Computers and Education; Developmental Psychology; Learning and Instruction

Target groups
Research

Type of publication
Contributed volume

More on www.springer.com/978-1-4614-4695-8

Hardcover
2013. XVIII, 303 p. 36 illus., 20 in color. (Explorations in Learning Technologies)
99,95 €
Usually dispatched within 3 to 5 business days.
Gemeinsam zum Erfolg?

Berufliche Karrieren von Frauen in Paarbeziehungen


Das Leben in einer Paarbeziehung kann für Frauen und Männer sowohl Unterstützung als auch Hindernis auf dem persönlichen Berufsweg sein. In Paarbeziehungen werden die Berufsperspektiven der Partner gedeutet, und es wird über das Verfolgen von Karrierecoptionen entschieden. Im Buch wird untersucht, wie Paare ihren Alltag organisieren, wie sie Beruf und Familie miteinander vereinbaren und welche Strategien sie entwickeln[...]

Contents


Fields of interest

Educational Policy and Politics; Gender Studies

Target groups

Professional/practitioner

Type of publication

Professional book

More on www.springer.com/978-3-531-17981-0

Softcover

2013. XVI, 376 S. 7 Abb. (Deutsches Jugendinstitut e.V., München) 37,37 €

ISBN 978-3-531-17981-0

Usually dispatched within 3 to 5 business days.

R. Hörster, Halle/Saale; S. Königter, B. Müller (Eds.)

Grenzbjekte

Soziale Welten und ihre Übergänge

’Grenzbjekte’ - Boundary Object - ist ein sozialwissenschaftliches Konzept, das intendiert, die Arten von Wissen und Praktiken begrifflich zu fassen, welche unterschiedliche wissenschaftliche Disziplinen miteinander verbinding: oder auch Wissenschaft und andere Soziale Welten zusammen bringen. Gemeinsam ist der Vielzahl wissenschaftlicher und praktischer Bezüge, die sich als ’Grenzbjekte’ lesen lassen, dass sie heterogene und starker Eigenlogik folgende Sinnesmodelle mit ’schwächer’ Verbindungen untereinander ausstatzen, die aber genau dadurch bedingt verlässliche Arbeitsbeziehungen und verdringenen Nutzen ermöglichen.

Features

Kooperation zwischen den sozialen Welten unterschiedlicher Wissenschaften und praktischer Arbeitsfelder wird heute mehr denn je gefordert. Welche Arten von Wissen und Praktiken solche Kooperation gelingen lassen, ist aber wenig geklärter. ’Grenzbjekte’ - Boundary Object - ist ein sozialwissenschaftliches Konzept, um solches Wissen und kooperative Praxis begrifflich zu fassen. Seine zentrale These: Heterogene[...]

Contents


Fields of interest

Education (general); Social Work

Target groups

Professional/practitioner

Type of publication

Professional book

More on www.springer.com/978-3-531-18030-4

Softcover

2013. IX, 314 S. 4 Abb. 37,34 €

ISBN 978-3-531-18030-4

Usually dispatched within 3 to 5 business days.

J.C. Shin, Seoul National University, Republic of Korea; B.M. Kehm, University of Kassel, Germany (Eds.)

Institutionalization of World-Class University in Global Competition

Moving the academic debate on from its current focus on development to a more nuanced sociological perspective, this fresh research is a collaboration between academics in South Korea and Germany that assesses the factors shaping world-class universities as institutional social systems as well as national cultural treasures. The work explores in detail how WCU have moved to a central position in policy circles, and how these often ambitious government policies on WCU have been interpreted and adopted by university administrators and individual professors. The authors provide a wealth of empirical data on universities, both world-class and aiming for WCU status, in a range of policies.[...]

Features

Moving the academic debate on from its current focus on development to a more nuanced sociological perspective, this fresh research is a collaboration between academics in Asia and Europe that assesses the factors shaping world-class universities as institutional social systems as well as national cultural treasures. The work explores in detail how WCU have moved to a central position in policy circles[...]

Contents


Fields of interest

Higher Education; International and Comparative Education; Educational Policy and Politics

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-94-007-4974-0

Hardcover


ISBN 978-94-007-4974-0

Usually dispatched within 3 to 5 business days.
Job Satisfaction around the Academic World

Higher education systems have changed all over the world, but not all have changed in the same ways. Although system growth and so-called massification have been worldwide themes, there have been system-specific changes as well. It is these changes that have an important impact on academic work and on the opinions of the staff that work in higher education. The academic profession has a key role to play in producing the next generations of knowledge workers, and this task will be more readily achieved by a contented academic workforce working within well-resourced teaching and research institutions. This volume tells the story of academics’ opinions about the changes in their own.[…]

Contents
1. Introduction: Satisfaction Around the World?; Peter James Bentley, Hamish Coates, Ian R Dobson, Leo Goedegebuure and V. Lynn Meek.- 2. Argentina: Academic Work at the Periphery – Why Argentine Scholars Are Satisfied, Despite All; Mónica Marquina and Gabriel Rebello.- 3. Australia: Factors Associated with Job Satisfaction Amongst Australian University Academics and Future Workforce Implications; Peter James Bentley, Hamish Coates, Ian R. Dobson, Leo Goedegebuure and V. Lynn Meek.- 4. Brazil: Job Satisfaction in a Diverse Institutional Environment; Elizabeth Balbachevsky and Simon[…]

Fields of interest
Higher Education; International and Comparative Education; Educational Policy and Politics

Target groups
Research

Type of publication
Contributed volume

More on www.springer.com/978-94-007-5433-1

Hardcover
99.95 €
ISBN 978-94-007-5433-1
Usually dispatched within 3 to 5 business days.

Learning from Shanghai

Lessons on Achieving Educational Success

The Shanghai school system has attracted worldwide attention since its impressive performance in the International Programme for Student Assessment (PISA) in 2009. The system ranks as a ‘stunning success’ according to standards of the Organisation for Economic Co-operation and Development (OECD). Shanghai also stands out for having the world’s highest percentage of ‘resilient students’ – students from socio-economically disadvantaged backgrounds who emerge as top performers. Learning From Shanghai: Lessons on Educational Success offers a close-up view of the people and the policies that have achieved such world-class performance. Based on research and personal observation gathered,[…]

Features
The Shanghai school system has attracted worldwide attention since its impressive performance in the International Programme for Student Assessment (PISA) in 2009. The system ranks as a ‘stunning success’ according to standards of the Organisation for Economic Co-operation and Development (OECD). Shanghai also stands out for having the world’s highest percentage of ‘resilient students’ – students from[…]

Contents

Fields of interest
International and Comparative Education; Educational Policy and Politics; Sociology of Education; Child and School Psychology

Target groups
Research

Type of publication
Monograph


Hardcover
2013. XXV, 245 p. 39 illus. (Education in the Asia-Pacific Region: Issues, Concerns and Prospects, Vol. 21)
99.95 €
Usually dispatched within 3 to 5 business days.

Media in Education

Results from the 2011 ICM and SIE joint Conference

With the aim of discussing "old" and "new" teaching technologies, based on research and on the strategies and praxis of the use of technologies and methodologies in the different teaching levels, and also embracing the contribution and active participation of researchers, teachers, creators, managers and other specialists, the work will provide inputs on the following topics: Students’ perspectives on media in the classroom, Students and media (as content and as tools for learning), Educational Media Design, Institutional Impact of the integration of Educational Media, Old v. New Media: what really matters, Research and Evaluation, Personal and/or social learning[…]

Contents
to follow

Fields of interest
Educational Technology; Literacy; Curriculum Studies; Learning and Instruction; Teaching and Teacher Education, Assessment, Testing and Evaluation

Target groups
Research

Type of publication
Contributed volume

More on www.springer.com/978-1-4614-3174-9

Hardcover
99.95 €
Usually dispatched within 3 to 5 business days.
Teacher Professional Development for Improving Quality of Teaching

This book makes a major contribution to knowledge and theory by drawing implications of teacher effectiveness research for the field of teacher training and professional development. The first part of the book provides a critical review of research on teacher training and professional development and illustrates the limitations of the main approaches to teacher development such as the competence-based and the holistic approach. A dynamic perspective to policy and practice in teacher training and professional development is advocated. The second part of the book provides a critical review of research on teacher effectiveness. The main phases of this field of research are analysed. It [...]
Technology as a Support for Literacy Achievements for Children at Risk

Presenting cutting-edge studies from various countries into the theoretical and practical issues surrounding the literacy acquisition of at-risk children, this volume focuses specifically on the utility of technology in supporting and advancing literacy among the relevant populations. These include a range of at-risk groups such as those with learning disabilities, low socioeconomic status, and minority ethnicity. Arguing that literacy is a key requirement for integration into any modern society, the book outlines new ways in which educators and researchers can overcome the difficulties faced by children in these at-risk groups. It also reflects the rapid development of technology in[...]

Features

Presenting cutting-edge studies from various countries into the theoretical and practical issues surrounding the literacy acquisition of at-risk children, this volume focuses specifically on the utility of technology in supporting and advancing literacy among the relevant populations. These include a range of at-risk groups such as those with learning disabilities, low socioeconomic status, and minority[...]

Contents


Fields of interest

Literacy; Language Education; Educational Technology

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-94-007-5118-7

Hardcover

2013. VI, 238 p. 16 illus. (Literacy Studies, Vol. 7)
99,95 €
ISBN 978-94-007-5118-7
Usually dispatched within 3 to 5 business days.

University Engagement With Socially Excluded Communities

This volume provides insightful analysis of the way higher education engages with socially excluded communities. Leading researchers and commentators examine the validity of the claim that universities can be active facilitators of social mobility, opening access to the knowledge economy for formerly excluded groups. The authors assess the extent to which the ‘Academy’ can deliver on its promise to build bridges with communities whose young people often assume that higher education lies beyond their ambitions. The chapters map the core dynamics of the relationship between higher education and communities which have bucked the more general trend of rapidly rising student numbers.[...]

Features

This volume provides insightful analysis of the way higher education engages with socially excluded communities. Leading researchers and commentators examine the validity of the claim that universities can be active facilitators of social mobility, opening access to the knowledge economy for formerly excluded groups. The authors assess the extent to which the ‘Academy’ can deliver on its promise to build[...]

Contents


Fields of interest

Higher Education; Educational Policy and Politics; Administration; Organization and Leadership

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-94-007-4874-3

Hardcover

2013. XII, 349 p. 15 illus.
89,95 €
ISBN 978-94-007-4874-3
Usually dispatched within 3 to 5 business days.

A Practical Introduction to Hardware/Software Codesign

This textbook serves as an introduction to the subject of embedded systems design, with emphasis on integration of custom hardware components with software. The key problem addressed in the book is the following: how can an embedded systems designer strike a balance between flexibility and efficiency? The book describes how combining hardware design with software design leads to a solution to this important computer engineering problem. The book covers four topics in hardware/software codesign: fundamentals, the design space of custom architectures, the hardware/software interface and application examples. The book comes with an associated design environment that helps the reader to[...]

Features

This textbook provides an introduction to embedded systems design, with emphasis on integration of custom hardware components with software. The key problem addressed in the book is the following: how can an embedded systems designer strike a balance between flexibility and efficiency? The book describes how combining hardware design with software design leads to a solution to this important computer[...]

Contents


Fields of interest

Circuits and Systems; Electronics and Microelectronics; Instrumentation; Processor Architectures

Target groups

Upper undergraduate

Type of publication

Graduate/advanced undergraduate textbook

More on www.springer.com/978-1-4614-3736-9

Hardcover

2013. XXII, 480 p. 225 illus.
89,95 €
Usually dispatched within 3 to 5 business days.
Adaptable Embedded Systems

As embedded systems become more complex, designers face a number of challenges at different levels: they need to boost performance, while keeping energy consumption as low as possible, they need to reuse existing software code, and at the same time they need to take advantage of the extra logic available in the chip, represented by multiple processors working together. This book describes several strategies to achieve such different and interrelated goals, by the use of adaptability. Coverage includes reconfigurable systems, dynamic optimization techniques such as binary translation and trace reuse, new memory architectures including homogeneous and heterogeneous multiprocessor[...]

Features

As embedded systems become more complex, designers face a number of challenges at different levels: they need to boost performance, while keeping energy consumption as low as possible, they need to reuse existing software code, and at the same time they need to take advantage of the extra logic available in the chip, represented by multiple processors working together. This book describes several[...]

Contents


Fields of interest

Circuits and Systems; Computer-Aided Engineering (CAD, CAE) and Design

Target groups

Research

Type of publication

Monograph


Hardcover

2013, XIV, 311 p. 150 illus., 67 in color.

99,95 €


Usually dispatched within 3 to 5 business days.

Softcover

2013, Etwa 250 S.

32,66 €

ISBN 978-3-8348-2538-4

Online orders shipping within 2-3 days.
Asset Condition, Information Systems and Decision Models

Asset Condition, Information Systems and Decision Models, is the second volume of the Engineering Asset Management Review Series. The manuscripts provide examples of implementations of asset information systems as well as some practical applications of condition data for diagnostics and prognostics. The increasing trend is towards prognostics rather than diagnostics, hence the need for assessment and decision models that promote the conversion of condition data into prognostic information to improve life-cycle planning for engineered assets. The research papers included here serve to support the on-going development of Condition Monitoring standards. This volume comprises selected [...] Features

Asset Condition, Information Systems and Decision Models, is the second volume of the Engineering Asset Management Review Series. The manuscripts provide examples of implementations of asset information systems as well as some practical applications of condition data for diagnostics and prognostics. The increasing trend is towards prognostics rather than diagnostics, hence the need for assessment and decision [...] Contents


Engineering Economics, Organization, Logistics, Marketing; Technology Management; Finance / Banking: Quality Control, Reliability, Safety and Risk; Business Information Systems Target groups

Research Type of publication

Monograph More on www.springer.com/978-3-642-34681-1 Hardcover

2013. XVIII, 83 p. 55 illus. (Biosystems & Biorobotics, Vol. 2) 99,95 € ISBN 978-3-642-34681-1 Usually dispatched within 3 to 5 business days.

BiLBIQ: A Biologically Inspired Robot with Walking and Rolling Locomotion

The book ‘BiLBIQ: A biologically inspired Robot with walking and rolling locomotion’ deals with implementing a locomotion behavior observed in the biological archetype Cebrennus villosus to a robot prototype whose structural design needs to be developed. The biological sample is investigated as far as possible and compared to other evolutorial solutions within the framework of nature’s inventions. Current achievements in robotics are examined and evaluated for their relation and relevance to the robot prototype in question. An overview of what is state of the art in actuation ensures the choice of the hardware available and most suitable for this project. Through a constant [...] Features

The book ‘BiLBIQ: A biologically inspired Robot with walking and rolling locomotion’ deals with implementing a locomotion behavior observed in the biological archetype Cebrennus villosus to a robot prototype whose structural design needs to be developed. The biological sample is investigated as far as possible and compared to other evolutorial solutions within the framework of nature’s [...] Contents

Biological archetypes and robotic pendants.- State of the art in robotics and robotic actuation.- Biomimetically inspired robot prototype.- Results. Fields of interest

Robotics and Automation; Nanotechnology and Microengineering; Programming Techniques Target groups

Research Type of publication

Monograph More on www.springer.com/978-3-642-36481-1 Hardcover


BiLBIQ: A Biologically Inspired Robot with Walking and Rolling Locomotion

The book ‘BiLBIQ: A biologically inspired Robot with walking and rolling locomotion’ deals with implementing a locomotion behavior observed in the biological archetype Cebrennus villosus to a robot prototype whose structural design needs to be developed. The biological sample is investigated as far as possible and compared to other evolutorial solutions within the framework of nature’s inventions. Current achievements in robotics are examined and evaluated for their relation and relevance to the robot prototype in question. An overview of what is state of the art in actuation ensures the choice of the hardware available and most suitable for this project. Through a constant [...] Features

The book ‘BiLBIQ: A biologically inspired Robot with walking and rolling locomotion’ deals with implementing a locomotion behavior observed in the biological archetype Cebrennus villosus to a robot prototype whose structural design needs to be developed. The biological sample is investigated as far as possible and compared to other evolutorial solutions within the framework of nature’s [...] Contents

Biological archetypes and robotic pendants.- State of the art in robotics and robotic actuation.- Biomimetically inspired robot prototype.- Results. Fields of interest

Robotics and Automation; Nanotechnology and Microengineering; Programming Techniques Target groups

Research Type of publication

Monograph More on www.springer.com/978-3-642-36481-1 Hardcover


Bio/CMOS Interfaces and Co-Design

The application of CMOS circuits and ASIC VLSI systems to problems in medicine and system biology has led to the emergence of Bio/CMOS Interfaces and Co-Design as an exciting and rapidly growing area of research. The mutual inter-relationships between VLSI-CMOS design and the biophysics of molecules interfacing with silicon and/or onto metallic surfaces has led to the emergence of the interdisciplinary engineering approach to Bio/CMOS interfaces. This new approach, facilitated by 3D circuit design and nanotechnology, has resulted in new concepts and applications for VLSI systems in the bio-world. This book offers an invaluable reference to the state-of-the-art in Bio/CMOS interfaces. [...] Features

The application of CMOS circuits and ASIC VLSI systems to problems in medicine and system biology has led to the emergence of Bio/CMOS Interfaces and Co-Design as an exciting and rapidly growing area of research. The mutual inter-relationships between VLSI-CMOS design and the biophysics of molecules interfacing with silicon and/or onto metallic surfaces has led to the emergence of the interdisciplinary engineering [...] Contents


Circuits and Systems; Computer-Aided Engineering (CAD, CAE) and Design Target groups

Research Type of publication

Monograph More on www.springer.com/978-1-4614-4689-7 Hardcover

Bremshandbuch

Grundlagen, Komponenten, Systeme, Fahrdynamik


Features


Contents


Fields of interest

Automotive Engineering; Engine Technology

Target groups

Professional/practitioner

Type of publication

Professional book

More on www.springer.com/978-3-8348-1796-9

Hardcover


Online orders shipping within 2-3 days.

A. Chakrabarti, Indian Institute of Science, Bangalore, India (Ed.)

CIRP Design 2012

Sustainable Product Development

During its life cycle, a product produces waste that is over 20 times its weight. As such it is critical to develop products that are sustainable. Currently product development processes lack high quality methods and tools that are empirically validated to support development of sustainable products. This book is a compilation of over forty cutting edge international research papers from the 22nd CIRP International Design Conference, written by eminent researchers from 15 countries, on engineering design process, methods and tools, broadly for supporting sustainable product development. A variety of new insights into the product development process, as well as a host of methods and[...]

Features

During its life cycle, a product produces waste that is over 20 times its weight. As such it is critical to develop products that are sustainable. Currently product development processes lack high quality methods and tools that are empirically validated to support development of sustainable products. This book is a compilation of over forty cutting edge international research papers from the 22nd CIRP[...]

Contents


Fields of interest

Engineering Design; Engineering Economics, Orga- nization, Logistics, Marketing; Quality Control, Reli- ability, Safety and Risk.

Target groups

Research

Type of publication

Proceedings

More on www.springer.com/978-1-4471-4506-6

Hardcover


Usually dispatched within 3 to 5 business days.

B. Antoun, Sandia National Laboratories, Livermore, CA, USA; H.J. Qi, University of Colorado, Boulder, CO, USA; P. Hall, Airforce Research Laboratory, Wright-Patterson Air Force Base, OH, USA; G.P. Tandon, University of Dayton Research Institute, OH, USA; H. Lu, University of Texas-Dallas, TX, USA; C. Lu, University of Ken- tucky, Paducah, KY, USA (Eds.)

Challenges in Mechanics of Time-Dependent Materials and Processes in Conventional and Multifunctional Materials, Volume 2

Proceedings of the 2012 Annual Conference on Experimental and Applied Mechanics


Features


Contents


Fields of interest

Engineering (general); Biomaterials; Operating Pro- cedures, Materials Treatment

Target groups

Research

Type of publication

Proceedings

More on www.springer.com/978-1-4614-4240-0

Hardcover


Usually dispatched within 3 to 5 business days.
Cold War Space Sleuths

The Untold Secrets of the Soviet Space Program

“Space Sleuths of the Cold War” relates for the first time the inside story of the amateur spies who monitored the Soviet space program during the Cold War. It is written by many of those “space sleuths” themselves and chronicles the key moments in their discovery of hidden history. This book shows that dedicated observers were often better than professionals at interpreting that information coming out of the USSR during the dark days of the Cold War. This book takes a unique approach to the history of Soviet spaceflight – looking at the personal stories of some of the researchers as well as the space secrets the Soviets tried to keep hidden. The fascinating account often reads like a [...]
Computational Intelligence and Decision Making

Trends and Applications

This book provides a general overview and original analysis of new developments and applications in several areas of Computational Intelligence and Information Systems. Computational Intelligence has become an important tool for engineers to develop and analyze novel techniques to solve problems in basic sciences such as physics, chemistry, biology, engineering, environment and social sciences. The material contained in this book addresses the foundations and applications of Artificial Intelligence and Decision Support Systems, Complex and Biological Inspired Systems, Simulation and Evolution of Real and Artificial Life Forms, Intelligent Models and Control Systems, Knowledge and[...]

Features
This book provides a general overview and original analysis of new developments and applications in several areas of Computational Intelligence and Information Systems. Computational Intelligence has become an important tool for engineers to develop and analyze novel techniques to solve problems in basic sciences such as physics, chemistry, biology, engineering, environment and social sciences. The [...] Contents

Fields of interest
Computational Intelligence; Artificial Intelligence (incl. Robotics); Information Systems Applications (incl.Internet)

Target groups
Research

Type of publication
Proceedings

More on www.springer.com/978-3-642-30205-3

Hardcover
2012. XVII, 436 p. 231 illus., 56 in color. 129,95 €
ISBN 978-3-642-30205-3
Usually dispatched within 3 to 5 business days.

A. Przesiółkowski, Polish Academy of Sciences, Warsaw, Poland; M. Piasecki, Wroclaw University of Technology, Poland; K. Jassem, Adam Mickiewicz University, Poznań, Poland; P. Fuglewicz, ITI, Katowice, Poland (Eds.)

Computational Linguistics

Applications
The ever-growing popularity of Google over the recent decade has required a specific method of man-machine communication: human query should be short, whereas the machine answer may take a form of a wide range of documents. This type of communication has triggered a rapid development in the domain of Information Extraction, aimed at providing the asker with a more precise information. The recent success of intelligent personal assistants supporting users in searching or even extracting information and answers from large collections of electronic documents signals the onset of a new era in man-machine communication – we shall soon explain to our small devices what we need to know and[...]

Features
The ever-growing popularity of Google over the recent decade has required a specific method of man-machine communication: human query should be short, whereas the machine answer may take a form of a wide range of documents. This type of communication has triggered a rapid development in the domain of Information Extraction, aimed at providing the asker with a more precise information. The recent [...] Contents
NLP Toolkits.- Information Extraction.- Multilinguality.

Fields of interest
Computational Intelligence; Language Translation and Linguistics; Artificial Intelligence (incl. Robotics)

Target groups
Research

Type of publication
Monograph

More on www.springer.com/978-3-642-34398-8

Hardcover
2013. VIII, 293 p. 62 illus. (Studies in Computational Intelligence, Vol. 458) 99,95 €
ISBN 978-3-642-34398-8
Usually dispatched within 3 to 5 business days.

A. Madureira, Polytechnic Institute of Porto, Portugal; C. Reis, Polytechnic Institute of Porto, Portugal; V. Marques, Polytechnic Institute of Coimbra, Portugal

Computer-Aided Design in Power Engineering

Application of Software Tools

This textbook demonstrates the application of software tools in solving a series of problems from the field of designing power system structures and systems. It contains four chapters: The first chapter leads the reader through all the phases necessary in the procedures of computer aided modeling and simulation. It guides through the complex problems presenting on the basis of eleven original examples. The second chapter presents application of software tools in power system calculations of power systems equipment design. Several design example calculations are carried out using engineering standards like MATLAB, EMTP/ATP, Excel & Access, AutoCAD and Simulink. The third chapter [...] Features
This textbook demonstrates the application of software tools in solving a series of problems from the field of designing power system structures and systems. It contains four chapters: The first chapter leads the reader through all the phases necessary in the procedures of computer aided modeling and simulation. It guides through the complex problems presenting on the basis of eleven original examples. [...] Contents

Fields of interest
Power Electronics, Electrical Machines and Networks; Computer-Aided Engineering (CAD, CAE) and Design

Target groups
Professional/practitioner

Type of publication
Monograph

More on www.springer.com/978-3-642-34398-8

Hardcover
2013. VIII, 293 p. 62 illus. (Studies in Computational Intelligence, Vol. 458) 99,95 €
ISBN 978-3-642-34398-8
Usually dispatched within 3 to 5 business days.

Z. Stojkovic, University of Belgrade, Serbia
Design for High Performance, Low Power, and Reliable 3D Integrated Circuits

This book provides readers with a variety of algorithms and software tools, dedicated to the physical design of through-silicon-via (TSV) based, three-dimensional integrated circuits. It describes numerous “manufacturing ready” GDSII-level layouts of TSV-based 3D ICs developed with the tools covered in the book. This book will also feature sign-off level analysis of timing, power, signal integrity, and thermal analysis for 3D IC designs. Full details of the related algorithms will be provided so that the readers will be able not only to grasp the core mechanics of the physical design tools, but also to be able to reproduce and improve upon the results themselves. This book will also [...] Features

This book describes the design of through-silicon-via (TSV) based three-dimensional integrated circuits. It includes details of numerous “manufacturing ready” GDSII-level layouts of TSV-based 3D ICs, developed with tools covered in the book. Readers will benefit from the sign-off level analysis of timing, power, signal integrity, and thermo-mechanical reliability for 3D IC designs. Coverage also includes [...] Contents


Circuits and Systems; Nanotechnology and Micro-engineering; Processor Architectures Target groups

Research Type of publication


Describing for Network and Service Continuity in Wireless Mesh Networks

“Designing for Network and Service Continuity in Wireless Mesh Networks” describes performance predictability of the new wireless mesh network paradigm, and describes considerations in designing networks from the perspective of survivability and service continuity metrics. The work provides design insights for network design researchers and industry professionals. It includes designs for new mesh networks and extensions of existing networks with predictable performance. Features

“Designing for Network and Service Continuity in Wireless Mesh Networks” describes performance predictability of the new wireless mesh network paradigm, and describes considerations in designing networks from the perspective of survivability and service continuity metrics. The work provides design insights for network design researchers and industry professionals. It includes designs for new mesh networks and [...] Contents


Communications Engineering, Networks; Computer Communication Networks; Signal, Image and Speech Processing; Quality Control, Reliability, Safety and Risk Target groups

Research Type of publication


2013. XIII, 219 p. 84 illus., 59 in color. (Signals and Communication Technology) 99,95 € ISBN 978-1-4614-4626-2 Usually dispatched within 3 to 5 business days.

Dynamic Failure of Composite and Sandwich Structures

This book presents a broad view of the current state of the art regarding the dynamic response of composite and sandwich structures subjected to impacts and explosions. Each chapter combines a thorough assessment of the literature with original contributions made by the authors. The first section deals with fluid-structure interactions in marine structures. The first chapter focuses on hull slamming and particularly cases in which the deformation of the structure affects the motion of the fluid during the water entry of flexible hulls. Chapter 2 presents an extensive series of tests underwater and in the air to determine the effects of explosions on composite and sandwich [...] Features

This book presents a broad view of the current state of the art regarding the dynamic response of composite and sandwich structures subjected to impacts and explosions. Each chapter combines a thorough assessment of the literature with original contributions made by the authors. The first section deals with fluid-structure interactions in marine structures. The first chapter focuses on hull slamming and [...] Contents


Continuum Mechanics and Mechanics of Materials; Ceramics, Glass, Composites, Natural Materials; Mechanics Target groups

Research Type of publication

Monograph More on www.springer.com/978-94-007-5328-0 Hardcover

Emotion Recognition using Speech Features

“Emotion Recognition Using Speech Features” provides coverage of emotion-specific features present in speech. The author also discusses suitable models for capturing emotion-specific information for distinguishing different emotions. The content of this book is important for designing and developing natural and sophisticated speech systems. In this Brief, Drs. Rao and Koolagudi lead a discussion of how emotion-specific information is embedded in speech and how to acquire emotion-specific knowledge using appropriate statistical models. Additionally, the authors provide information about exploiting multiple evidences derived from various features and models. The acquired [...]"}

Features

“Emotion Recognition Using Speech Features” covers emotion-specific features present in speech and discussion of suitable models for capturing emotion-specific information for distinguishing different emotions. The content of this book is important for designing and developing natural and sophisticated speech systems. Drs. Rao and Koolagudi lead a discussion of how emotion-specific information is [...]"}

Contents


Fields of interest

Signal, Image and Speech Processing; User Interfaces and Human Computer Interaction; Computational Linguistics

Target groups

Research

Type of publication

Brief

More on www.springer.com/978-1-4614-5142-6

Softcover

2013. XII, 124 p. 30 illus., 6 in color. (SpringerBriefs in Speech Technology)

49.95 €


Usually dispatched within 3 to 5 business days.

M. Shukuya, Tokyo City University, Japan

Exergy

Theory and Applications in the Built Environment

Many people, professionals and non-professionals alike, recognize that it is of critical importance to solve global energy and environmental issues. For this purpose, it is essential to have a scientific understanding of what is meant by the "energy" issue and the "environmental" issue. The concept of "exergy" is a scientific concept that exactly fits. The concept of "energy" is a scientifically-well established concept, namely 'to be conserved'. The reason why exergy is not in the general knowledge is that it is a scientific concept that exactly fits. The concept of 'energy' was a scientifically-well [...]"

Features

Many people, professionals and non-professionals alike, recognize that it is of critical importance to solve global energy and environmental issues. For this purpose, it is essential to have a scientific understanding of what is meant by the "energy" issue and the "environmental" issue. The concept of "exergy" is a scientific concept that exactly fits. The concept of 'energy' is a scientifically-well [...]"

Contents

CHAPTER 1 Renewing Our View with the Concept of Exergy - CHAPTER 2 Exergy-Entropy Process of Global Environmental System - CHAPTER 3 Built-Environmental Systems - CHAPTER 4 Theory for Closed Systems - CHAPTER 5 Theory for Open Systems

Fields of interest

Facility Management; Sustainable Development; Engineering Thermodynamics, Heat and Mass Transfer; Architecture

Target groups

Research

Type of publication

Monograph

More on www.springer.com/978-1-4471-4572-1

Hardcover

2013. XII, 365 p. 202 illus., 75 in color. (Green Energy and Technology)

189.95 €

ISBN 978-1-4471-4572-1

Usually dispatched within 3 to 5 business days.

C.F. Ventura, University of British Columbia, Vancouver, BC, Canada; W.C. Crane, University of Wisconsin–Madison, WI, USA; C. Furlong, Worcester Polytechnic Institute, MA, USA (Eds.)

Experimental and Applied Mechanics, Volume 4

Proceedings of the 2012 Annual Conference on Experimental and Applied Mechanics

Experimental and Applied Mechanics, Volume 4: Proceedings of the 2012 Annual Conference on Experimental and Applied Mechanics, the fourth volume of seven from the Conference, brings together 54 contributions to this important area of research and engineering. The collection presents early findings and case studies on fundamental and applied aspects of Experimental and Applied Mechanics, including papers on: Fracture & Fatigue; Microscale & Microstructural Effects in Fatigue & Fracture; Material Applications; Composite Characterization; Using Digital Image Correlation Techniques; Multi-Scale Simulation and Testing of Composites; Residual Stress; Inverse Problems; Hybrid [...]"

Features

Experimental and Applied Mechanics, Volume 4: Proceedings of the 2012 Annual Conference on Experimental and Applied Mechanics, the fourth volume of seven from the Conference, brings together 54 contributions to this important area of research and engineering. The collection presents early findings and case studies on fundamental and applied aspects of Experimental and Applied Mechanics, including [...]"

Contents

From the Contents: Correlation of Structural Strain to Tip Vorticity and Lift for a MAV Pliant Membrane Wing - Deformation Mapping at the Microstructural Length Scale - Molecular Tailoring of Interfacial Adhesion Using Self-assembled Monolayers - Micromechanical Characterization of Ductile Damage in DP Steel - MEMS Device for Fatigue Testing 25 Micrometer Thick Aluminum Specimens - High Confidence Level Calibration for AFM Based Fracture Testing of Nanobeams - High Strain Rate Characteristics of Fiber Bragg Grating Strain sensors - Dynamic Shape and Strain Measurements of Rotating Tire [...]"

Fields of interest

Theoretical and Applied Mechanics; Mechanics; Mechanical Engineering

Target groups

Research

Type of publication

Proceedings

More on www.springer.com/978-1-4614-4225-7

Hardcover


189.95 €


Usually dispatched within 3 to 5 business days.
Faszination Konstruktion

Berufsbild und Tätigkeitsfeld im Wandel


Features


Contents


Fields of interest

Machinery and Machine Elements; Automotive Engineering; Mechatronics; Industrial and Production Engineering; Job Career in Science and Engineering; Higher Education

Target groups

Research

Type of publication

Monograph

More on www.springer.com/978-3-642-31940-2

Softcover


Online orders shipping within 2-3 days.

A. Albers, acatech - Deutsche Akademie der Technikwissenschaften, München, Germany; B. Denkena, acatech - Deutsche Akademie der Technikwissenschaften, München, Germany; S. Matthias, acatech - Deutsche Akademie der Technikwissenschaften, München, Germany (Eds.)

A. Albers, acatech - Deutsche Akademie der Technikwissenschaften, München, Germany; B. Denkena, acatech - Deutsche Akademie der Technikwissenschaften, München, Germany; S. Matthias, acatech - Deutsche Akademie der Technikwissenschaften, München, Germany (Eds.)

Fault-Tolerant Process Control

Methods and Applications

Fault-Tolerant Process Control focuses on the development of general, yet practical, methods for the design of advanced fault-tolerant control systems; these ensure an efficient fault detection and a timely response to enhance fault recovery, prevent faults from propagating or developing into total failures, and reduce the risk of safety hazards. To this end, methods are presented for the design of advanced fault-tolerant control systems for chemical processes which explicitly deal with actuator/controller failures and sensor faults and data losses. Specifically, the book puts forward: A framework for detection, isolation and diagnosis of actuator and sensor faults for nonlinear[...]

Features

Fault-Tolerant Process Control focuses on the development of general, yet practical, methods for the design of advanced fault-tolerant control systems; these ensure an efficient fault detection and a timely response to enhance fault recovery, prevent faults from propagating or developing into total failures, and reduce the risk of safety hazards. To this end, methods are presented for the design of [...]

Contents


Fields of interest

Control; Industrial Chemistry / Chemical Engineering; Systems Theory, Control

Target groups

Research

Type of publication

Monograph

More on www.springer.com/978-1-4471-4807-4

Hardcover


Usually dispatched within 3 to 5 business days.

P. Mhaskar, McMaster University, Hamilton, ON, Canada; J. Liu, University of Alberta, Edmonton, AB, Canada; P.D. Christofides, University of California, Los Angeles, CA, USA

D. Jacob, Technische Universität Freiberg; C. Stuhr, Technische Universität Freiberg

Finanzierung und Bilanzierung in der Bauwirtschaft

Basel III. - neue Finanzierungsmodelle - IFRS - BilMoG


Features

Flexible Adaptation in Cognitive Radios

This book provides an introduction to software-defined radio and cognitive radio, along with methodologies for applying knowledge representation, semantic web, logic reasoning and artificial intelligence to cognitive radio, enabling autonomous adaptation and flexible signaling. Readers from the wireless communications and software-defined radio communities will use this book as a reference to extend software-defined radio to cognitive radio, using the semantic technology described.

Features
This book provides an introduction to software-defined radio and cognitive radio, along with methodologies for applying knowledge representation, semantic web, logic reasoning and artificial intelligence to cognitive radio, enabling autonomous adaptation and flexible signaling. Readers from the wireless communications and software-defined radio communities will use this book as a reference to extend [..]

Contents

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

Target groups
Research

Type of publication
Monograph

More on www.springer.com/978-1-4614-0967-0

Hardcover
2013, X, 334 p. 199 illus., 86 in color. 129,95 €
ISBN 978-1-4471-4636-0
Usually dispatched within 3 to 5 business days.
Graph Embedding for Pattern Analysis

Graph Embedding for Pattern Recognition covers theory methods, computation, and applications widely used in statistics, machine learning, image processing, and computer vision. This book presents the latest advances in graph embedding theories, such as nonlinear manifold graph, linearization method, graph based subspace analysis, L1 graph, hypergraph, undirected graph, and graph in vector spaces. Real-world applications of these theories are spanned broadly in dimensionality reduction, subspace learning, manifold learning, clustering, classification, and feature selection. A selective group of experts contribute to different chapters of this book which provides a comprehensive [...] Features

Graph Embedding for Pattern Analysis covers theory methods, computation, and applications widely used in statistics, machine learning, image processing, and computer vision. This book presents the latest advances in graph embedding theories, such as nonlinear manifold graph, linearization method, graph based subspace analysis, L1 graph, hypergraph, undirected graph, and graph in vector spaces. [...] Contents

Multilevel Analysis of Attributed Graphs for Explicit Graph Embedding in Vector Spaces.- Feature Grouping and Selection over an Undirected Graph.- Median Graph Computation by Means of Graph Embedding into Vector Spaces.- Patch Alignment for Graph Embedding.- Feature Subspace Transformations for Enhancing K-Means Clustering.- Learning with TL-Graph for High Dimensional Data Analysis.- Graph Embedding Discriminant Analysis on Riemannian Manifolds for Visual Recognition.- A Flexible and Effective Linearization Method for Subspace Learning.- A Multi-Graph Spectral Approach for Mining[...] Fields of interest

Communications Engineering, Networks; Pattern Recognition; Artificial Intelligence (incl. Robotics); Signal, Image and Speech Processing

Target groups

Research

Type of publication

Monograph


Hardcover

2013. VIII, 260 p. 91 illus., 63 in color.
99,95 €

Usually dispatched within 3 to 5 business days.

Graph Theory with Algorithms and its Applications

In Applied Science and Technology

The book has many important features which make it suitable for both undergraduate and postgraduate students in various branches of engineering and general and applied sciences. The important topics interrelating Mathematics & Computer Science are also covered briefly. The book is useful to readers with a wide range of backgrounds including Mathematics, Computer Science/Computer Applications and Operational Research. While dealing with theorems and algorithms, emphasis is laid on constructions which consist of formal proofs, examples with applications. Up till, there is scarcity of books in the open literature which cover all the things including most importantly various algorithms and [...] Features

The book has many important features which make it suitable for both undergraduate and postgraduate students in various branches of engineering and general and applied sciences. The important topics interrelating Mathematics & Computer Science are also covered briefly. The book is useful to readers with a wide range of backgrounds including Mathematics, Computer Science/Computer Applications and [...] Contents


Fields of interest

Complexity; Graph Theory; Mathematical Applications in Computer Science

Target groups

Graduate

Type of publication

Graduate/advanced undergraduate textbook

More on www.springer.com/978-81-322-0749-8

Hardcover

2013. XV, 303 p. 214 illus., 2 in color.
99,95 €
ISBN 978-81-322-0749-8

Usually dispatched within 3 to 5 business days.

Grasping in Robotics

Grasping in Robotics contains original contributions in the field of grasping in robotics with a broad multidisciplinary approach. This gives the possibility of addressing all the major issues related to robotized grasping, including milestones in grasping through the centuries, mechanical design issues, control issues, modelling achievements and issues, formulations and software for simulation purposes, sensors and vision integration, applications in industrial field and non-conventional applications (including service robotics and agriculture). The contributors to this book are experts in their own diverse and wide ranging fields. This multidisciplinary approach can help make[...] Features

Grasping in Robotics contains original contributions in the field of grasping in robotics with a broad multidisciplinary approach. This gives the possibility of addressing all the major issues related to robotized grasping, including milestones in grasping through the centuries, mechanical design issues, control issues, modelling achievements and issues, formulations and [...] Contents


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

Target groups

Research

Type of publication

Monograph

More on www.springer.com/978-1-4471-4663-6

Hardcover

129,95 €
ISBN 978-1-4471-4663-6

Usually dispatched within 3 to 5 business days.
Grundkurs Leistungselektronik

Obelastung, Schaltungen und Systeme


Features


Contents


Fields of interest

Power Electronics, Electrical Machines and Networks; Energy Technology; Electronics and Microelectronics, Instrumentation

Target groups

Upper undergraduate

Type of publication

German textbook

More on www.springer.com/978-3-8348-2447-9

Halbleiter-Leistungsbaulemente

Physik, Eigenschaften, Zuverlässigkeit

Halbleiter-Leistungsbaulemente sind das Kernstück der Leistungselektronik. Sie bestimmen die Leistungsfähigkeit, sie machen neuartige und verlustarme Schaltungen erst möglich. Da für deren Anwendung nicht nur die Vorgänge im Halbleiter, sondern auch die thermischen und mechanischen Eigenschaften wesentlich sind, beinhaltet die Behandlung der Halbleiter-Leistungsbaulemente auch die Aufbau- und Verbindungstechnik. Das Buch geht auf die physikalischen Grundlagen ein, behandelt die Herstellungstechnologie, geht auf einzelne Baulemente wie Dioden, Transistoren, Thyristoren, MOS-Transistoren und IGBT's detailliert ein. Aufbau- und Verbindungstechnik sowie thermomechanische Probleme [...].

Features

Halbleiter-Leistungsbaulemente sind das Kernstück der Leistungselektronik. Sie bestimmen die Leistungsfähigkeit, sie machen neuartige und verlustarme Schaltungen erst möglich. Da für deren Anwendung nicht nur die Vorgänge im Halbleiter, sondern auch die thermischen und mechanischen Eigenschaften wesentlich sind, beinhaltet die Behandlung der Halbleiter-Leistungsbaulemente auch die Aufbau- und [...].

Contents


Fields of interest

Circuits and Systems; Power Electronics, Electrical Machines and Networks; Electronics and Microelectronics, Instrumentation

Target groups

Professional/practitioner

Type of publication

Professional book

More on www.springer.com/978-3-642-29795-3

Hardcover

2012. XII, 383 S. 298 Abb. 56,03 € ISBN 978-3-642-29795-3

Usually dispatched within 3 to 5 business days.

Engineering

89

Haustechnik

Grundlagen - Planung - Ausführung


Features

Seit über 50 Jahren ist die "Haustechnik" das führende Standardwerk. Deshalb ist das Buch als kompetenter Berater für Architekten und Ingenieure bei Planung und Ausführung der Gebäudeausräumung sowieVER- und Entsorgung haustechnischer Maßnahmen so unentbehrlich geworden. Alle wichtigen Änderungen zu Technik und Normen wurden dabei berücksichtigt. Mit über 300 Normen, Richtlinienverweisen und Bezügen [...].

Contents


Fields of interest

Engineering (general); Facility Management

Target groups

Upper undergraduate

Type of publication

German textbook

More on www.springer.com/978-3-8348-1260-5

Hardcover


Online orders shipping within 2-3 days.
Hydraulik für den Wasserbau


Features
Die Technische Hydraulik stellt dem planenden Ingenieur die hydromechanischen Berechnungsverfahren zur Verfügung, die in Wasserbau, Wasserwirtschaft, Abwasserotechnik und Wasserversorgung benötigt werden. Das Nachschlagewerk mit Formel- und Beispielsammlung für Strömungsfragen in Rohrleitungen und Gewässern zeigt in der neu bearbeiteten Auflage wieder einen aktuellen Querschnitt durch das Gesamtgebiet; [...] 

Contents

Fields of interest
Geoengineering, Foundations, Hydraulics; Theoretical and Applied Mechanics; Waste Water Technology; Water Pollution Control; Water Management; Aquatic Pollution

Target groups
Professional/practitioner

Type of publication
Graduate/advanced undergraduate textbook

More on www.springer.com/978-3-642-05488-4

Softcover
2013. XVII, 331 S. 213 Abb. 56,03 €
ISBN 978-3-642-05488-4
Usually dispatched within 3 to 5 business days.

Höhere Mathematik für Ingenieure

Band I: Analysis

Das Buch ist Teil einer Vorlesungsreihe, die sich über die ersten vier bis fünf Semester erstreckt. Es wendet sich in erster Linie an Studierende der Ingenieurwissenschaften, darüber hinaus aber auch allgemein an Studierende technischer und physikalischer Fachrichtungen sowie an Studierende der Ange wandten Mathematik. Lernende und Lehrende finden mehr in dem Buch, als in einem Vor leungszyklus behandelt werden kann. Angedacht ist, dass Dozenten einen ‘roten Faden’ auswählen, der ihren Studenten den Weg in die Mathematik bahnt.

Features

Fields of interest
Appl. Mathematics / Computational Methods of Engineering; Analysis; Applications of Mathematics

Target groups
Upper undergraduate

Type of publication
German textbook

More on www.springer.com/978-3-8348-2437-0

Softcover
2013. XVIII, 608 S. 237 Abb. 37,34 €
ISBN 978-3-8348-2437-0
Online orders shipping within 2-3 days.

IT Convergence and Security 2012

The proceedings approaches the subject matter with problems in technical convergence and convergences of security technology. This approach is new because we look at new issues that arise from techniques converging. The general scope of the proceedings content is convergence security and the latest information technology. The intended readership are societies, enterprises, and research institutes, and intended content level is mid- to highly educated personals. The most important features and benefits of the proceedings are the introduction of the most recent information technology and its related ideas, applications and problems related to technology convergence, and its case studies [...] 

Features
The proceedings approaches the subject matter with problems in technical convergence and convergences of security technology. This approach is new because we look at new issues that arise from techniques converging. The general scope of the proceedings content is convergence security and the latest information technology. The intended readership are societies, enterprises, and research institutes, and [...] 

Contents

Fields of interest
Communications Engineering, Networks; Information Systems Applications (incl.Internet); Computer Communication Networks

Target groups
Research

Type of publication
Proceedings

More on www.springer.com/978-94-007-5859-9

Hardcover
2013. XIX, 1242 p. 546 illus. (Lecture Notes in Electrical Engineering, Vol. 215) 129,95 €
ISBN 978-94-007-5859-9
Usually dispatched within 3 to 5 business days.
Innovation through Knowledge Transfer 2012

Across the world there is growing awareness of the importance of innovation and knowledge transfer. Innovation in the sense of generating new knowledge and making better use of existing knowledge, coupled with knowledge transfer and sharing paradigms, have never been more relevant to the universities, industry, commerce and the third sector. This volume represents the proceedings of the Innovation through Knowledge Transfer 2012 Conference which formed an excellent opportunity to disseminate, share and discuss the impact of innovation, knowledge sharing, enterprise and entrepreneurship. The volume contains papers presented at a Workshop on ‘The Meta Transfer of Knowledge: [...]’

Features
Across the world there is growing awareness of the importance of innovation and knowledge transfer. Innovation in the sense of generating new knowledge and making better use of existing knowledge, coupled with knowledge transfer and sharing paradigms, have never been more relevant to the universities, industry, commerce and the third sector. This volume represents the proceedings of the Innovation through [...]...

Contents
Requirements of Knowledge Commercialization in Universities and Academic Entrepreneurship.- KTP and m-commerce: Innovation in the Building Industry.- Innovation through knowledge transfer to social enterprises in Northern Ireland.- Knowledge Transfer through Diversity Coach and Mentoring Partnerships.- Understanding the Other Side – the Inside Story of the INFER Project.- Facilitating Knowledge Transfer in IANES - A Transactive Memory Approach.- Planes, Trains and Automobiles: The Importance of Location for Knowledge Transfer in the Transportation Sector.

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

Target groups
Research

Type of publication
Monograph
More on www.springer.com/978-3-642-34218-9

Hardcover
2013. XXVI, 255 p. 30 illus. (Smart Innovation, Systems and Technologies, Vol. 18)
129,95 €
ISBN 978-3-642-34218-9
Usually dispatched within 3 to 5 business days.

Integrated Optical Interconnect Architectures for Embedded Systems

This book provides a broad overview of current research in optical interconnect technologies and architectures. Introductory chapters on high-performance computing and the associated issues in conventional interconnect architectures, and on the fundamental building blocks for integrated optical interconnect, provide the foundations for the bulk of the book which brings together leading experts in the field of optical interconnect architectures for data communication. Particular emphasis is given to the ways in which the photonic components are assembled into architectures to address the needs of data-intensive on-chip communication, and to the performance evaluation of such [...]...

Features
This book provides a broad overview of current research in optical interconnect technologies and architectures. Introductory chapters on high-performance computing and the associated issues in conventional interconnect architectures, and on the fundamental building blocks for integrated optical interconnect, provide the foundations for the bulk of the book which brings together leading experts in the field [...]...

Contents
Preface.- Basics for high-performance computing and optical interconnect.- Interconnect issues in high-performance computing architectures.- Technologies and building blocks for on-chip optical interconnects.- On-chip optical communication topologies.- Designing chip-level nanophotonic interconnection networks.- FONOC: a Fat-Tree communication architecture for heterogeneous MPSoC.- System integration and optical-enhanced MPSoC performance.- A protocol stack architecture for optical [...]...

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

Target groups
Research

Type of publication
Monograph
More on www.springer.com/978-1-4419-6192-1

Hardcover
2013. XII, 269 p. 131 illus., 46 in color. (Embedded Systems and Technologies)
199,95 €
ISBN 978-3-642-33925-7
Usually dispatched within 3 to 5 business days.

Intelligent Autonomous Systems 12

Volume 1: Proceedings of the 12th International Conference IAS-12, Held June 26-29, 2012, Jeju Island, Korea

Intelligent autonomous systems are emerging as a key enabler for the creation of a new paradigm of services to humankind, as seen by the recent advancement of autonomous cars licensed for driving in our streets, of unmanned aerial and underwater vehicles carrying out hazardous tasks on-site, and of space robots engaged in scientific as well as operational missions, to list only a few. This book aims at serving the researchers and practitioners in related fields with a timely dissemination of the recent progress on intelligent autonomous systems, based on a collection of papers presented at the 12th International Conference on Intelligent Autonomous Systems, held in Jeju, Korea, June [...]...

Features
Intelligent autonomous systems are emerging as a key enabler for the creation of a new paradigm of services to humankind, as seen by the recent advancement of autonomous cars licensed for driving in our streets, of unmanned aerial and underwater vehicles carrying out hazardous tasks on-site, and of space robots engaged in scientific as well as operational missions, to list only a few. This book aims at [...]...

Contents

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

Target groups
Research

Type of publication
Monograph
More on www.springer.com/978-3-642-33925-7

Softcover
199,95 €
ISBN 978-3-642-33925-7
Usually dispatched within 3 to 5 business days.
Introducing Spoken Dialogue Systems into Intelligent Environments

Introducing Spoken Dialogue Systems into Intelligent Environments outlines the formalisms of a novel knowledge-driven framework for spoken dialogue management and presents the implementation of a model-based Adaptive Spoken Dialogue Manager (ASDM) called Owlspeak. The authors have identified three stakeholders that potentially influence the behavior of the ASDM: the user, the SDS, and a complex Intelligent Environment (IE) consisting of various devices, services, and task descriptions. The theoretical foundation of a working ontology-based spoken dialogue description framework, prototype implementation of the ASDM, and the evaluation activities that are presented as part of this work.

Features
- Introducing Spoken Dialogue Systems into Intelligent Environments outlines the formalisms of a novel knowledge-driven framework for spoken dialogue management and presents the implementation of a model-based Adaptive Spoken Dialogue Manager (ASDM) called Owlspeak. The authors have identified three stakeholders that potentially influence the behavior of the ASDM: the user, the SDS, and a complex Intelligent Environment (IE).
- Features introduce a novel approach to spoken dialogue management and present the implementation of a model-based Adaptive Spoken Dialogue Manager (ASDM) called Owlspeak. The authors have identified three stakeholders that potentially influence the behavior of the ASDM: the user, the SDS, and a complex Intelligent Environment (IE).

Contents
- Introduction
- Background
- Novel Approach to Spoken Dialogue Management in Intelligent Environments
- The Owlspeak Adaptive Spoken Dialogue Manager
- Experiments and Evaluation
- Conclusion and Future Directions

Fields of interest
- Signal, Image, and Speech Processing
- User Interfaces and Human Computer Interaction
- Communications Engineering, Networks, Artificial Intelligence (incl. Robotics)

Target groups
- Research

Type of publication
- Monograph

More on www.springer.com/978-1-4614-5382-6

Hardcover
- 2013, XXI, 211 p. 72 illus.
- Usually dispatched within 3 to 5 business days.

Konstruieren sicherheitsgerechter Produkte

Konstruieren sicherheitsgerechter Produkte

Methoden und systematische Lösungssammlungen zur EG-Maschinenrichtlinie

Multivariate Statistical Process Control

Process Monitoring Methods and Applications

Given their key position in the process control industry, process monitoring techniques have been extensively investigated by industrial practitioners and academic control researchers. Multivariate statistical process control (MSPC) is one of the most popular data-based methods for process monitoring and is widely used in various industrial areas. Effective routines for process monitoring can help operators run industrial processes efficiently at the same time as maintaining high product quality. Multivariate Statistical Process Control reviews the developments and improvements that have been made to MSPC over the last decade, and goes on to propose a series of new MSPC-based...[...]

Features

Given their key position in the process control industry, process monitoring techniques have been extensively investigated by industrial practitioners and academic control researchers. Multivariate statistical process control (MSPC) is one of the most popular data-based methods for process monitoring and is widely used in various industrial areas. Effective routines for process monitoring can help [...]
Newtonian Nonlinear Dynamics for Complex Linear and Optimization Problems

Newtonian Nonlinear Dynamics for Complex Linear and Optimization Problems explores how Newton’s equation for the motion of one particle in classical mechanics combined with finite difference methods allows creation of a mechanical scenario to solve basic problems in linear algebra and programming. The authors present a novel, unified numerical and mechanical approach and an important analysis method of optimization.

Features
Newtonian Nonlinear Dynamics for Complex Linear and Optimization Problems explores how Newton’s equation for the motion of one particle in classical mechanics combined with finite difference methods allows creation of a mechanical scenario to solve basic problems in linear algebra and programming. The authors present a novel, unified numerical and mechanical approach and an important analysis method of optimization.

Contents

Fields of interest
Appl. Mathematics / Computational Methods of Engineering; Operations Research, Mathematical Programming; Linear and Multilinear Algebras, Matrix Theory

Target groups
Research

Type of publication
Monograph

More on www.springer.com/978-1-4614-5911-8

On-chip High-Voltage Generator Design

This book provides various design techniques for switched-capacitor on-chip high-voltage generators, including charge pump circuits, regulators, level shifters, references, and oscillators. Readers will see these techniques applied to system design in order to address the challenge of how the on-chip high-voltage generator is designed for Flash memories, LCD drivers, and other semiconductor devices to optimize the entire circuit area and power efficiency with a low voltage supply, while minimizing the cost.

Features
This book describes high-voltage generator design with switched-capacitor multiplier techniques. The authors provide various design techniques for switched-capacitor on-chip high-voltage generators, including charge pump circuits, regulators, level shifters, references, and oscillators. Readers will see these techniques applied to system design in order to address the challenge of how the on-chip [...]
Optical Interconnects for Future Data Center Networks

Optical Interconnects in Future Data Center Networks covers optical networks and how they can be used to provide high bandwidth, energy efficient interconnects for future data centers with increased communication bandwidth requirements. This contributed volume presents an integrated view of the future requirements of the data centers and serves as a reference work for some of the most advanced solutions that have been proposed by major universities and companies. Collecting the most recent and innovative optical interconnects for data center networks that have been presented in the research community by universities and industries, this book is a valuable reference for researchers.

Features
Optical Interconnects for Future Data Center Networks covers optical networks and how they can provide high bandwidth, energy efficient interconnects with increased communication bandwidth. This volume, with contributions from leading researchers in the field, presents an integrated view of the expected future requirements of data centers and serves as a reference for some of the most advanced and [...]
Organic Solar Cells

Materials and Device Physics

Organic solar cells have emerged as new promising photovoltaic devices due to their potential applications in large area, printable and flexible solar panels. Organic Solar Cells: Materials and Device Physics offers an updated review on the topics covering the synthesis, properties and applications of new materials for various critical roles in devices from electrodes, interface and carrier transport materials, to the active layer composed of donors and acceptors. Addressing the important device physics issues of carrier and exciton dynamics and interface stability and novel light trapping structures, the potential for hybrid organic solar cells to provide high efficiency solar cells [...]
Proceedings of the FISITA 2012 World Automotive Congress

Volume 1: Advanced Internal Combustion Engines (I)

Proceedings of the FISITA 2012 World Automotive Congress are selected from nearly 2,000 papers submitted to the 34th FISITA World Automotive Congress, which is held by Society of Automotive Engineers of China (SAE-China) and the International Federation of Automotive Engineering Societies (FISITA). This proceedings focus on solutions for sustainable mobility in all areas of passenger car, truck and bus transportation. Volume 1: Advanced Internal Combustion Engines (I) focuses on:

- New Gasoline Direct Injection (GDI), Spark Ignition (SI) & Compression Ignition (CI) Engines and Components
- Fuel Injection and Sprays
- Fuel and Lubricants
- After-Treatment and Emission Control

Above all researchers, professional engineers and graduates in fields of automotive engineering, mechanical engineering,...

Contents
New Gasoline Direct Injection (GDI), Spark Ignition (SI) & Compression Ignition (CI), Engines and Components, Fuel Injection and Sprays, Fuel and Lubricants, After-Treatment and Emission Control.

Fields of interest
Automotive Engineering, Engine Technology, Operating Procedures, Materials Treatment

Target groups
Research

Type of publication
Proceedings

More on www.springer.com/978-3-642-33840-3

Hardcover
2013, XIX, 823 p. 557 illus., 423 in color. (Lecture Notes in Electrical Engineering, Vol. 189)
199,95 €
ISBN 978-3-642-33840-3

Usually dispatched within 3 to 5 business days.

Proceedings of the FISITA 2012 World Automotive Congress

Volume 2: Advanced Internal Combustion Engines (II)

Proceedings of the FISITA 2012 World Automotive Congress are selected from nearly 2,000 papers submitted to the 34th FISITA World Automotive Congress, which is held by Society of Automotive Engineers of China (SAE-China) and the International Federation of Automotive Engineering Societies (FISITA). This proceedings focus on solutions for sustainable mobility in all areas of passenger car, truck and bus transportation. Volume 2: Advanced Internal Combustion Engines (II) focuses on:

- Flow and Combustion Diagnosis
- Engine Design and Simulation
- Heat Transfer and Waste Heat Reutilization
- Emission Standard and International Regulations

Above all researchers, professional engineers and...

Features
Proceedings of the FISITA 2012 World Automotive Congress are selected from nearly 2,000 papers submitted to the 34th FISITA World Automotive Congress, which is held by Society of Automotive Engineers of China (SAE-China) and the International Federation of Automotive Engineering Societies (FISITA). This proceedings focus on solutions for sustainable mobility in all areas of passenger car, truck and bus...

Contents

Fields of interest
Automotive Engineering, Engineering Design, Simulation and Modeling, Electrical Engineering

Target groups
Research

Type of publication
Proceedings

More on www.springer.com/978-3-642-33749-9

Hardcover
2013, XIX, 562 p. 438 illus., 354 in color. (Lecture Notes in Electrical Engineering, Vol. 190)
169,95 €
ISBN 978-3-642-33749-9

Usually dispatched within 3 to 5 business days.

Proceedings of the FISITA 2012 World Automotive Congress

Volume 3: Future Automotive Powertrains (I)

Proceedings of the FISITA 2012 World Automotive Congress are selected from nearly 2,000 papers submitted to the 34th FISITA World Automotive Congress, which is held by Society of Automotive Engineers of China (SAE-China) and the International Federation of Automotive Engineering Societies (FISITA). This proceedings focus on solutions for sustainable mobility in all areas of passenger car, truck and bus transportation. Volume 3: Future Automotive Powertrains (I) focuses on:

- Alternative Fuel and New Engine
- Advanced Hybrid Electric Vehicle
- Plug-in Electric Vehicle

Above all researchers, professional engineers and graduates in fields of automotive engineering, mechanical engineering...

Features
Proceedings of the FISITA 2012 World Automotive Congress are selected from nearly 2,000 papers submitted to the 34th FISITA World Automotive Congress, which is held by Society of Automotive Engineers of China (SAE-China) and the International Federation of Automotive Engineering Societies (FISITA). This proceedings focus on solutions for sustainable mobility in all areas of passenger car, truck and bus...

Contents

Fields of interest
Automotive Engineering, Electrical Engineering, Energy Technology

Target groups
Research

Type of publication
Proceedings

More on www.springer.com/978-3-642-33776-5

Hardcover
2013, XI, 718 p. 560 illus., 419 in color. (Lecture Notes in Electrical Engineering, Vol. 191)
199,95 €
ISBN 978-3-642-33776-5

 Usually dispatched within 3 to 5 business days.
Proceedings of the FISITA 2012 World Automotive Congress

Volume 4: Future Automotive Powertrains (II)

Proceedings of the FISITA 2012 World Automotive Congress are selected from nearly 2,000 papers submitted to the 34th FISITA World Automotive Congress, which is held by Society of Automotive Engineers of China (SAE-China) and the International Federation of Automotive Engineering Societies (FISITA). This proceedings focus on solutions for sustainable mobility in all areas of passenger car, truck and bus transportation. Volume 4: Future Automotive Powertrain (II) focuses on: Advanced Battery Technology; Hydrogen Fuel Cell Vehicle; Charging Infrastructure and Smart Grid Technology; Demonstration of Electric Vehicles in Cities. Above all researchers, professional engineers and graduates in [...] Features

Proceedings of the FISITA 2012 World Automotive Congress are selected from nearly 2,000 papers submitted to the 34th FISITA World Automotive Congress, which is held by Society of Automotive Engineers of China (SAE-China) and the International Federation of Automotive Engineering Societies (FISITA). This proceedings focus on solutions for sustainable mobility in all areas of passenger car, truck and [...] Contents

Advanced Battery Technology; Hydrogen Fuel Cell Vehicle; Charging Infrastructure and Smart Grid Technology; Demonstration of Electric Vehicles in Cities. Other.

Fields of interest

Automotive Engineering; Electrical Engineering; Energy Technology

Target groups

Research

Type of publication

Proceedings

More on www.springer.com/978-3-642-33740-6

Hardcover

2013. XV, 279 p. 195 illus., 164 in color. (Lecture Notes in Electrical Engineering, Vol. 192)

169.95 €

ISBN 978-3-642-33740-6

Usually dispatched within 3 to 5 business days.

Proceedings of the FISITA 2012 World Automotive Congress

Volume 5: Advanced Transmission System and Driveline

Proceedings of the FISITA 2012 World Automotive Congress are selected from nearly 2,000 papers submitted to the 34th FISITA World Automotive Congress, which is held by Society of Automotive Engineers of China (SAE-China) and the International Federation of Automotive Engineering Societies (FISITA). This proceedings focuses on solutions for sustainable mobility in all areas of passenger car, truck and bus transportation. Volume 5: Advanced Transmission System and Driveline focuses on: Clutch System and Controls; Gear Systems and Driveline; Advanced Transmission System; Transmission Control System Above all researchers, professional engineers and graduates in fields of automotive [...] Features

Proceedings of the FISITA 2012 World Automotive Congress are selected from nearly 2,000 papers submitted to the 34th FISITA World Automotive Congress, which is held by Society of Automotive Engineers of China (SAE-China) and the International Federation of Automotive Engineering Societies (FISITA). This proceedings focuses on solutions for sustainable mobility in all areas of passenger car, truck and bus [...] Contents

Clutch System and Controls; Gear Systems and Driveline; Advanced Transmission System; Transmission Control System; Other.

Fields of interest

Automotive Engineering; Vibration, Dynamical Systems, Control; Continuum Mechanics and Mechanics of Materials

Target groups

Research

Type of publication

Proceedings

More on www.springer.com/978-3-642-33743-7

Hardcover


129.95 €

ISBN 978-3-642-33743-7

Usually dispatched within 3 to 5 business days.

Proceedings of the FISITA 2012 World Automotive Congress

Volume 7: Vehicle Design and Testing (I)

Proceedings of the FISITA 2012 World Automotive Congress are selected from nearly 2,000 papers submitted to the 34th FISITA World Automotive Congress, which is held by Society of Automotive Engineers of China (SAE-China) and the International Federation of Automotive Engineering Societies (FISITA). This proceedings focuses on solutions for sustainable mobility in all areas of passenger car, truck and bus transportation. Volume 7: Vehicle Design and Testing (I) focuses on: Vehicle Performance Development; Vehicle Integration Platformized and Universal Design; Development of CAD /CAE/CAM and CF Methods in Automotive Practice; Advanced Chassis, Body Structure and Design

Features

Proceedings of the FISITA 2012 World Automotive Congress are selected from nearly 2,000 papers submitted to the 34th FISITA World Automotive Congress, which is held by Society of Automotive Engineers of China (SAE-China) and the International Federation of Automotive Engineering Societies (FISITA). This proceedings focuses on solutions for sustainable mobility in all areas of passenger car, truck and bus [...] Contents

Vehicle Performance Development; Vehicle Integration Platformized and Universal Design; Development of CAD /CAE/CAM and CF Methods in Automotive Practice; Advanced Chassis, Body Structure and Design; Automotive Ergonomic, Interior and Exterior Trim Design; Vehicle Style and Aerodynamic Design; New Materials and Structures

Fields of interest

Automotive Engineering; Engineering Design; Structural Materials, Electrical Engineering

Target groups

Research

Type of publication

Proceedings

More on www.springer.com/978-3-642-33834-2

Hardcover

2013. XXV, 947 p. 821 illus., 657 in color. (Lecture Notes in Electrical Engineering, Vol. 195)

199.95 €

ISBN 978-3-642-33834-2

Online orders shipping within 2-3 days.
Proceedings of the FISITA 2012 World Automotive Congress

Volume 8: Vehicle Design and Testing (II)
Proceedings of the FISITA 2012 World Automotive Congress are selected from nearly 2,000 papers submitted to the 34th FISITA World Automotive Congress, which is held by Society of Automotive Engineers of China (SAE-China) and the International Federation of Automotive Engineering Societies (FISITA). This proceedings focus on solutions for sustainable mobility in all areas of passenger car, truck and bus transportation. Volume 8: Vehicle Design and Testing (II) focuses on: Automotive Reliability Technology • Lightweight Design Technology • Design for Recycling • Dynamic Modeling • Simulation and Experimental Validation • Virtual Design, Testing and Validation • Testing of Components...

Features
Proceedings of the FISITA 2012 World Automotive Congress are selected from nearly 2,000 papers submitted to the 34th FISITA World Automotive Congress, which is held by Society of Automotive Engineers of China (SAE-China) and the International Federation of Automotive Engineering Societies (FISITA). This proceedings focus on solutions for sustainable mobility in all areas of passenger car, truck and bus...

Contents
Automotive Reliability Technology • Lightweight Design Technology • Design for Recycling • Dynamic Modeling • Simulation and Experimental Validation • Virtual Design, Testing and Validation • Testing of Components, Systems and Full Vehicle • Subjective and Objective Evaluation of Performances...

Fields of interest
Automotive Engineering; Engineering Design; Simulation and Modeling

Target groups
Research

Type of publication
Proceedings

More on www.springer.com/978-3-642-33737-6

Hardcover
2013. XXIV, 898 p. 749 illus., 593 in color. (Lecture Notes in Electrical Engineering, Vol. 196)
199,95 €
ISBN 978-3-642-33737-6
Online orders shipping within 2-3 days.

SAE China, Society of Automotive Engineers of China (SAEChina); FISITA, International Federation of Automotive Engineering Societies (FISITA) (Eds.)

Proceedings of the FISITA 2012 World Automotive Congress

Volume 9: Automotive Safety Technology
Proceedings of the FISITA 2012 World Automotive Congress are selected from nearly 2,000 papers submitted to the 34th FISITA World Automotive Congress, which is held by Society of Automotive Engineers of China (SAE-China) and the International Federation of Automotive Engineering Societies (FISITA). This proceedings focus on solutions for sustainable mobility in all areas of passenger car, truck and bus transportation. Volume 9: Automotive Safety Technology focuses on: Automotive Structure Crashworthiness • Occupant and Child Safety Protection • Pedestrian Protection • Crash Biomechanics • Crash Pre-Judge Technology / Traffic Accident Analysis and reconstruction • Crash Compatibility...

Features
Proceedings of the FISITA 2012 World Automotive Congress are selected from nearly 2,000 papers submitted to the 34th FISITA World Automotive Congress, which is held by Society of Automotive Engineers of China (SAE-China) and the International Federation of Automotive Engineering Societies (FISITA). This proceedings focus on solutions for sustainable mobility in all areas of passenger car, truck and bus...

Contents
Automotive Structure Crashworthiness • Occupant and Child Safety Protection • Pedestrian Protection • Crash Biomechanics • Crash Pre-Judge Technology / Traffic Accident Analysis and reconstruction • Crash Compatibility...

Fields of interest
Automotive Engineering; Control, Robotics, Mechatronics, Control

Target groups
Research

Type of publication
Proceedings

More on www.springer.com/978-3-642-33804-5

Hardcover
2013. XII, 818 p. 628 illus., 505 in color. (Lecture Notes in Electrical Engineering, Vol. 197)
169,95 €
ISBN 978-3-642-33804-5
Usually dispatched within 3 to 5 business days.

E. Vázquez, Polytechnic University of Catalunya, Barcelona, Spain (Ed.)

Progress of Recycling in the Built Environment
Final report of the RILEM Technical Committee 217-PRE
This report is a useful tool for countries starting to recycle aggregates or construction and demolition waste. It contains the latest developments in this field, introduces a completely new approach to the procedure of proportioning concrete mixtures with recycled aggregate, references recent publications, opinions and discrepancies in relation to the durability of recycled concrete, such as freeze-thaw standards, studies of chloride penetration and diffusion, and sulphate attacks, the use of the fine fraction <4mm, quality assurance of concrete recycled aggregate, sustainability and recycling construction waste and global impact assessment of urban renewal based on sustainable...

Features
This report is a useful tool for countries starting to recycle aggregates or construction and demolition waste. It contains the latest developments in this field, introduces a completely new approach to the procedure of proportioning concrete mixtures with recycled aggregate, references recent publications, opinions and discrepancies in relation to the durability of recycled concrete, such as freeze-thaw...

Contents

Fields of interest
Building Materials; Waste Management / Waste Technology; Structural Materials

Target groups
Research

Type of publication
Monograph

More on www.springer.com/978-94-007-4907-8

Hardcover
2013. XXIX, 284 p. 154 illus. (RILEM State-of-the-Art Reports, Vol. 8)
129,95 €
ISBN 978-94-007-4907-8
Usually dispatched within 3 to 5 business days.
Recycled Aggregate in Concrete

Use of Industrial, Construction and Demolition Waste

Concrete is the most used man-made material in the world since its invention. The widespread use of this material has led to continuous developments such as ultra-high strength concrete and self-compacting concrete. Recycled Aggregate in Concrete: Use of Industrial, Construction and Demolition Waste focuses on the recent developments which use the various types of recycled waste materials as aggregate in the production of various types of concrete. By drawing together information and data from various fields and sources, Recycled Aggregate in Concrete: Use of Industrial, Construction and Demolition Waste provides full coverage of this subject. Divided into two parts, a compilation of [...]
**Rotors: Stress Analysis and Design**

Stress and strain analysis of rotors subjected to surface and body loads, as well as to thermal loads deriving from temperature variation along the radius, constitutes a classic subject of machine design. Nevertheless attention is limited to rotor profiles for which governing equations are solvable in closed form. Furthermore very few actual engineering issues may relate to structures for which stress and strain analysis in the linear elastic field and, even more, under non-linear conditions (i.e. plastic or viscoelastic conditions) produces equations to be solved in closed form. Moreover, when a product is still in its design stage, an analytical formulation with closed-form solution [...]

**Features**

Stress and strain analysis of rotors subjected to surface and body loads, as well as to thermal loads deriving from temperature variation along the radius, constitutes a classic subject of machine design. Nevertheless attention is limited to rotor profiles for which governing equations are solvable in closed form. Furthermore very few actual engineering issues may relate to structures for which stress and [...]
Signals and Systems in Biomedical Engineering

Signal Processing and Physiological Systems Modeling

The use of digital signal processing is ubiquitous in the field of physiology and biomedical engineering. The application of such mathematical and computational tools requires a formal or explicit understanding of physiology. Formal models and analytical techniques are interlinked in physiology as in any other field. This book takes a unitary approach to physiological systems, beginning with signal measurement and acquisition, followed by signal processing, linear systems modelling, and computer simulations. The signal processing techniques range across filtering, spectral analysis and wavelet analysis. Emphasis is placed on fundamental understanding of the concepts as well as solving [...] Features

The use of digital signal processing is ubiquitous in the field of physiology and biomedical engineering. The application of such mathematical and computational tools requires a formal or explicit understanding of physiology. Formal models and analytical techniques are interlinked in physiology as in any other field. This book takes a unitary approach to physiological systems, beginning with signal [...] Fields of interest

Biomedical Engineering; Signal, Image and Speech Processing; Biophysics and Biological Physics; Electrical Engineering

Target groups

Research

Type of publication

Graduate/advanced undergraduate textbook

More on www.springer.com/978-1-4614-5331-4

Hardcover


74,95 €

ISBN 978-1-4614-5331-4

Usually dispatched within 3 to 5 business days.

K. O. Papaioiu, F. Schmuck, Eschenbach, Switzerland

Silicone Composite Insulators

Materials, Design, Applications

Composite insulators have been in service in electric power networks successfully for more than 40 years, and now up to the highest operating voltages. The present book extensively covers such insulators with a special focus on today’s prevalent material, which is silicone rubber. It includes a detailed description of the electrical and mechanical characteristics of composite insulators, their material properties, their design as well as typical applications and service experience. Particular attention is given to the mechanical behavior of long rod and post insulators, insulators crossed arms, interphase spacers and hollow core apparatus insulators. The state of the art on manufacturing [...] Features

Composite insulators have been in service in electric power networks successfully for more than 40 years, and now up to the highest operating voltages. The present book extensively covers such insulators with a special focus on today’s prevalent material, which is silicone rubber. It includes a detailed description of the electrical and mechanical characteristics of composite insulators, their material [...] Contents

Introduction.- Composite Insulators.- Composite Longrod Insulators.- Composite Post Insulators.- Insulated Cross-Arms for Compact Lines.- Interphase Spacers.- Composite Hollow Core Insulators

Fields of interest

Power Electronics, Electrical Machines and Networks; Ceramics, Glass, Composites, Natural Materials; Optical and Electronic Materials; Operating Procedures, Materials Treatment

Target groups

Professional/practitioner

Type of publication

Monograph

More on www.springer.com/978-3-642-15319-8

Hardcover

2013. XX, 495 p. 484 illus., 244 in color. (Power Systems)

99,95 €

ISBN 978-3-642-15319-8

Online orders shipping within 2-3 days.

V.I. Balas, Aurel Vlaicu University from Arad, Romania; J. Fodor, Óbuda University, Budapest, Hungary; A.R. Varzinni-Kozy, Óbuda University, Budapest, Hungary; J. Dombi, University of Szeged, Hungary; I.C. Jain, University of South Australia, Adelaide, SA, Australia (Eds.)

Soft Computing Applications


This volume contains the Proceedings of the 5th International Workshop on Soft Computing Applications (SOFA 2012).

The book covers a broad spectrum of soft computing techniques, theoretical and practical applications employing knowledge and intelligence to find solutions for world industrial, economic and medical problems. The combination of such intelligent systems tools and a large number of applications introduces a need for a synergy of scientific and technological disciplines in order to show the great potential of Soft Computing in all domains.

The conference papers included in these proceedings, published post [...] Features

This volume contains the Proceedings of the 5th International Workshop on Soft Computing Applications (SOFA 2012).

The book covers a broad spectrum of soft computing techniques, theoretical and practical applications employing knowledge and intelligence to find solutions for world industrial, economic and medical problems. The combination of [...] Contents


Fields of interest

Computational Intelligence; Artificial Intelligence (incl. Robotics)

Target groups

Research

Type of publication

Monograph

More on www.springer.com/978-3-642-33940-0

Softcover


129,95 €

ISBN 978-3-642-33940-0

Usually dispatched within 3 to 5 business days.
Soft Computing: State of the Art Theory and Novel Applications

This book is a tribute to Lotfi A. Zadeh, the father of fuzzy logic, on the occasion of his 90th Birthday. The book gathers original scientific contributions written by top scientists and presenting the latest theories, applications and new trends in the fascinating and challenging field of soft computing.

Features
This book is a tribute to Lotfi A. Zadeh, the father of fuzzy logic, on the occasion of his 90th Birthday. The book gathers original scientific contributions written by top scientists and presenting the latest theories, applications and new trends in the fascinating and challenging field of soft computing.

Contents
From the Contents: Future Novel Directions.- Fuzzy Sets and Relations.- Rules Construction and Analysis.- Learning and Databases.- Fuzzy Logic.- Data Analysis and Applications.

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

Target groups
Research

Type of publication
Monograph

More on www.springer.com/978-3-642-34921-8

Hardcover
ISBN 978-3-642-34921-8
Usually dispatched within 3 to 5 business days.

Sortier- und Verteilungssysteme
Grundlagen, Anwendung, Berechnung und Realisierung


Contents

Fields of interest
Engineering Economics, Organization, Logistics, Marketing, Production / Logistics

Target groups
Professional/practitioner

Type of publication
Professional book

More on www.springer.com/978-3-642-31289-2

Hardcover
2012. XX, 242 S. 185 Abb. (VDI-Buch)
93,41 €
ISBN 978-3-642-31289-2
Usually dispatched within 3 to 5 business days.

Stahlbau
Grundlagen der Berechnung und baulichen Ausbildung von Stahlbauten


Features


Fields of interest
Light Construction, Steel Construction, Timber Construction

Type of publication
Professional book

More on www.springer.com/978-3-528-38837-9

Hardcover
2013. XXII, 1420 S. 1822 Abb.
121,45 €
ISBN 978-3-528-38837-9
Currently out of stock.
Stem Cells and Tissue Engineering

Stem cells are the building blocks for all other cells in an organism. The human body has about 200 different types of cells and any of those cells can be produced by a stem cell. This fact emphasizes the significance of stem cells in transplantation medicine, regenerative therapy and bioengineering. Whether embryonic or adult, these cells can be used for the successful treatment of a wide range of diseases that were not treatable before, such as osteogenesis imperfecta in children, different forms of leukemias, acute myocardial infarction, some neural damages and diseases, etc. Bioengineering, e.g. successful manipulation of these cells with multipotent capacity of [...]}

Features

Stem cells are the building blocks for all other cells in an organism. The human body has about 200 different types of cells and any of those cells can be produced by a stem cell. This fact emphasizes the significance of stem cells in transplantation medicine, regenerative therapy and bioengineering. Whether embryonic or adult, these cells can be used for the successful treatment of a wide range of [...]}

Contents

Short history of stem cell transplantation with emphasis on hematological disorders. - Stem cell concept: entity or function? - Embryonic stem cells: problems and possible solutions. - Adult Stem cells (the concept of VSEL-Cell). - Cord blood stem cells. - Haematopoietic stem cells. - Ethical aspects of stem cell research. - Stem cell renewal and differentiation. - Stem cell sources, harvesting and clinical use. - The HLA and ABO system in the view of stem cell transplant. - Peritransplant blood component therapy. - Engraftment: evaluation criteria. - Principles and practice of stem cell [...]}

Fields of interest

Biomedical Engineering; Biomedicine (general); Biotechnology; Hematology; Stem Cells

Target groups

Research

Type of publication

Brief


Softcover


Team Cooperation in a Network of Multi-Vehicle Unmanned Systems

Synthesis of Consensus Algorithms

Team Cooperation in a Network of Multi-Vehicle Unmanned Systems develops a framework for modeling and control of a network of multi-agent unmanned systems in a cooperative manner and with consideration of non-ideal and practical considerations. The main focus of this book is the development of “synthesis-based” algorithms rather than on conventional “analysis-based” approaches to the team cooperation, specifically the team consensus problems. The authors provide a set of modified “design-based” consensus algorithms whose optimality is verified through introduction of performance indices.

Features

Team Cooperation in a Network of Multi-Vehicle Unmanned Systems develops a framework for modeling and control of a network of multi-agent unmanned systems in a cooperative manner and with consideration of non-ideal and practical considerations. The main focus of this book is the development of “synthesis-based” algorithms rather than on conventional “analysis-based” approaches to the team [...]}

Contents


Fields of interest

Control, Robotics, Mechatronics; Artificial Intelligence (incl. Robotics); Computational Intelligence

Target groups

Research

Type of publication

Monograph

More on www.springer.com/978-1-4614-5072-6

Hardcover

2013. XXIII, 149 p. 28 illus., 24 in color. 99,95 € ISBN 978-1-4614-5072-6 Usually dispatched within 3 to 5 business days.
The Local Information Dynamics of Distributed Computation in Complex Systems

The nature of distributed computation in complex systems has often been described in terms of memory, communication and processing. This thesis presents a complete information-theoretic framework to quantify these operations on information (i.e. information storage, transfer and modification), and in particular their dynamics in space and time. The framework is applied to cellular automata, and delivers important insights into the fundamental nature of distributed computation and the dynamics of complex systems (e.g. that gliders are dominant information transfer agents). Applications to several important network models, including random Boolean networks, suggest that the capability [...] Features

Contents


Fields of interest

Complexity; Coding and Information Theory; Artificial Intelligence (incl. Robotics); Computational Biology / Bioinformatics

Target groups

Research

Type of publication

Monograph

More on www.springer.com/978-3-642-32951-7

Hardcover

2013. XXII, 235 p. 42 illus., 14 in color. (Springer Theses) 139,95 €

ISBN 978-3-642-32951-7

Usually dispatched within 3 to 5 business days.

The Monte Carlo Simulation Method for System Reliability and Risk Analysis

Monte Carlo simulation is one of the best tools for performing realistic analysis of complex systems as it allows most of the limiting assumptions on system behavior to be relaxed. The Monte Carlo Simulation Method for System Reliability and Risk Analysis comprehensively illustrates the Monte Carlo simulation method and its application to reliability and system engineering. Readers are given a sound understanding of the fundamentals of Monte Carlo sampling and simulation and its application for realistic system modeling. Whilst many of the topics rely on a high-level understanding of calculus, probability and statistics, simple academic examples will be provided in support of the [...] Features

Contents


Fields of interest

Applied Mathematics / Computational Methods of Engineering; Computational Science and Engineering; Probability Theory and Stochastic Processes

Target groups

Professional/practitioner

Type of publication

Monograph


Hardcover

2013. XIV, 198 p. 69 illus., 24 in color. (Springer Series in Reliability Engineering) 129,95 €


Usually dispatched within 3 to 5 business days.
Theory of Digital Automata

This book serves a dual purpose: firstly to combine the treatment of circuits and digital electronics, and secondly, to establish a strong connection with the contemporary world of digital systems. The need for this approach arises from the observation that introducing digital electronics through a course in traditional circuit analysis is fast becoming obsolete. Our world has gone digital. Automata theory helps with the design of digital circuits such as parts of computers, telephone systems and control systems. A complete perspective is emphasized, because even the most elegant computer architecture will not function without adequate supporting circuits. The focus is on explaining[...]

Features
This book serves a dual purpose: firstly to combine the treatment of circuits and digital electronics, and secondly, to establish a strong connection with the contemporary world of digital systems. The need for this approach arises from the observation that introducing digital electronics through a course in traditional circuit analysis is fast becoming obsolete. Our world has gone digital. Automata theory[...]

Contents

Fields of interest
Circuits and Systems; Logic Design; Information and Communication, Circuits

Target groups
Research

Type of publication
Monograph

More on www.springer.com/978-94-007-5227-6

Hardcover

99,95 €
ISBN 978-94-007-5227-6

Usually dispatched within 3 to 5 business days.

Thermodynamics, Algebraic, and Neuro-Computing Models

Thermodynamics in Multicomponent Mixtures presents the computational approaches that are employed in the study of thermodynamics in various types of mixtures, namely, hydrocarbons, polymers, water-alcohol, molten metals, and so forth. We present a detailed formalism of these methods that are based on non-equilibrium thermodynamics or algebraic correlations or principles of the artificial neural network. The book will serve as single complete reference to understand the theoretical derivations of thermodynamics models and its application to different types of multi-component mixtures. An exhaustive discussion of these is used to give a complete perspective of the principles and the[...]

Features
Thermodynamics in Multicomponent Mixtures presents the computational approaches that are employed in the study of thermodynamics in various types of mixtures, namely, hydrocarbons, polymers, water-alcohol, molten metals, and so forth. We present a detailed formalism of these methods that are based on non-equilibrium thermodynamics or algebraic correlations or principles of the artificial neural network. The[...]

Contents

Fields of interest
Engineering Thermodynamics, Heat and Mass Transfer; Engineering Fluid Dynamics; Physical Chemistry; Energy (general)

Target groups
Research

Type of publication
Brief

More on www.springer.com/978-1-4614-5598-1

Softcover
2013. XI, 106 p. 41 illus, 5 in color. (SpringerBriefs in Thermal Engineering and Applied Science)

49,95 €
ISBN 978-1-4614-5598-1

Usually dispatched within 3 to 5 business days.

Time Series Analysis, Modeling and Applications

A Computational Intelligence Perspective

Temporal and spatiotemporal data form an inherent fabric of the society as we are faced with streams of data coming from numerous sensors, data feeds, recordings associated with numerous areas of application embracing physical and human-generated phenomena (environmental data, financial markets, Internet activities, etc.). A quest for a thorough analysis, interpretation, modeling and prediction of time series comes with an ongoing challenge for developing models that are both accurate and user-friendly (interpretable). The volume is aimed to exploit the conceptual and algorithmic framework of Computational Intelligence (CI) to form a cohesive and comprehensive environment for building[...]

Features
Temporal and spatiotemporal data form an inherent fabric of the society as we are faced with streams of data coming from numerous sensors, data feeds, recordings associated with numerous areas of application embracing physical and human-generated phenomena (environmental data, financial markets, Internet activities, etc.). A quest for a thorough analysis, interpretation, modeling and prediction of time[...]

Contents
From the Contents: The links between statistical and fuzzy models for time series analysis and forecasting.- Incomplete time series: imputation through Genetic Algorithms.- Intelligent aggregation and time series smoothing.- Financial fuzzy Time series models based on ordered fuzzy numbers.- Stochastic-fuzzy knowledge-based approach to temporal data modeling.- A Novel Choquet integral composition forecasting model for time series data based on completed extensional L-measure.- An application of enhanced knowledge models to fuzzy time series.- A wavelet transform approach to chaotic[...]

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

Target groups
Research

Type of publication
Monograph

More on www.springer.com/978-3-642-33438-2

Hardcover
2013. VIII, 404 p. 117 illus. (Intelligent Systems Reference Library, Vol. 47)

129,95 €
ISBN 978-3-642-33438-2

Usually dispatched within 3 to 5 business days.
Ubiquitous Information Technologies and Applications

CUTE 2012

Recent advances in electronic and computer technologies have paved the way for the proliferation of ubiquitous computing and innovative applications that incorporate these technologies. This proceedings book describes these new and innovative technologies, and covers topics like Ubiquitous Communication and Networks, Security Systems, Smart Devices and Applications, Cloud and Grid Systems, Service-oriented and Web Service Computing, Embedded Hardware and Image Processing and Multimedia.

Features
This book is for The 7th International Conference on Ubiquitous Information Technologies and Applications (CUTE 2012). Ubiquitous computing will require a new approach to fitting technology to our lives. The advent of new computing devices, and the seamless connectivity between these devices, thanks to diverse wired and wireless networks, are enabling new opportunities for a user to perform his/her […]

Contents

Fields of interest
Communications Engineering, Networks; Programming Languages, Compilers, Interpreters; Computing Methodologies

Target groups
Research

Type of publication
Proceedings

More on www.springer.com/978-94-007-5856-8

Hardcover
199,95 €
ISBN 978-94-007-5856-8

Usually dispatched within 3 to 5 business days.

Use of Extraterrestrial Resources for Human Space Missions to Moon or Mars

This book carries out approximate estimates of the costs of implementing ISRU on the Moon and Mars. It is found that no ISRU process on the Moon has much merit. ISRU on Mars can save a great deal of mass, but there is a significant cost in processing for resources and validating ISRU concepts. Mars ISRU might have merit, but not enough data are available to be certain. In addition, this book provides a detailed review of various ISRU technologies. This includes three approaches for Mars ISRU based on processing only the atmosphere: solid oxide electrolysis, reverse water gas shift reaction (RWGS), and absorbing water vapor directly from the atmosphere. It is not clear that any of […]

Features
This book carries out approximate estimates of the costs of implementing ISRU on the Moon and Mars. It is found that no ISRU process on the Moon has much merit. ISRU on Mars can save a great deal of mass, but there is a significant cost in processing for resources and validating ISRU concepts. Mars ISRU might have merit, but not enough data are available to be certain. In addition, this book provides a […]

Contents
The Value of ISRU.- Mars ISRU Technology.- Lunar ISRU Technology.

Fields of interest
Aerospace Technology and Astronautics; Mineral Resources

Target groups
Professional/practitioner

Type of publication
Professional book

More on www.springer.com/978-3-642-32761-2

Hardcover
2013. XXIV, 185 p. 31 illus. (Astronautical Engineering)
99,99 €
ISBN 978-3-642-32761-2

Usually dispatched within 3 to 5 business days.
Water Supply Network District Metering

Theory and Case Study

The management of a water supply network can be substantially improved defining permanent sectors or districts that enhance simpler water loss detection and pressure management. However, the water network partitioning may compromise water system performance, since some pipes are usually closed to delimit districts in order not to have too many metering stations, to decrease costs and simplify water balance. This may reduce the reliability of the whole system and not guarantee the delivery of water at the different network nodes. In practical applications, the design of districts or sectors is generally based on empirical approaches or on limited field experiences. The book proposes a [...] COMMUNICATION.

Contents

Water leakage management.- Water district metering policy and practice.- Design support methodology.- Case study: Monterusciello network.- Conclusion.

Fields of interest

Civil Engineering; Waste Water Technology / Water Pollution Control / Water Management / Aquatic Pollution; Regional Science

Target groups

Research

Type of publication

Monograph

More on www.springer.com/978-3-7091-1492-6

Hardcover

2013. 104 p. 35 illus. (CISM International Centre for Mechanical Sciences, Vol. 543)

89.95 €

ISBN 978-3-7091-1492-6

Online orders shipping within 2-3 days.
Environmental Security in the Arctic Ocean

This seminal book results from a NATO Advanced Research Workshop at the University of Cambridge with Russian co-directorship, enabling the first formal dialogue between NATO and Russia about security issues in the Arctic Ocean. Involving interdisciplinary participation with experts from 17 nations, including all of the Arctic states, this workshop itself reflects progress in Arctic cooperation and collaboration. Interests now are awakening globally to take advantage of extensive energy, shipping, fishing and tourism opportunities in the Arctic Ocean as it is being transformed from a permanent sea-ice cap to a seasonally ice-free sea. This environmental state-change is introducing [...] 

Features
This seminal book results from a NATO Advanced Research Workshop at the University of Cambridge with Russian co-directorship, enabling the first formal dialogue between NATO and Russia about security issues in the Arctic Ocean. Involving interdisciplinary participation with experts from 17 nations, including all of the Arctic states, this workshop itself reflects progress in Arctic cooperation and [...] 

Contents

Fields of interest
Environmental Law / Policy / Ecojustice; Sustainable Development; International Economics; Emerging Markets/Globalization; Oceanography

Target groups
Graduate

Type of publication
Proceedings

More on www.springer.com/978-94-007-4712-8

Governing the Provision of Ecosystem Services

Founded on the core notion that we have reached a turning point in the governance, and thus the conservation, of ecosystems and the environment, this edited volume features more than 20 original chapters, each informed by the paradigm shift in the sector over the last decade. Where once the emphasis was on strategies for conservation, enacted through instruments of control such as planning and ‘polluter pays’ legislation, more recent developments have shown a shift towards incentive-based arrangements aimed at those responsible for providing the environmental services enabled by such ecosystems. Encouraging shared responsibility for watershed management, developed in Costa Rica, is a [...] 

Features
Founded on the core notion that we have reached a turning point in the governance, and thus the conservation, of ecosystems and the environment, this edited volume features more than 20 original chapters, each informed by the paradigm shift in the sector over the last decade. Where once the emphasis was on strategies for conservation, enacted through instruments of control such as planning and ‘polluter pays’ legislation, more recent developments have shown a shift towards incentive-based arrangements aimed at those responsible for providing the environmental services enabled by such ecosystems. Encouraging shared responsibility for watershed management, developed in Costa Rica, is a [...] 

Contents

Fields of interest
Environmental Management; Environmental Economics; Anthropology; Landscape, Regional and Urban Planning

Target groups
Research

Type of publication
Contributed volume

More on www.springer.com/978-94-007-5175-0

Global Approaches to Site Contamination Law

The book describes the complex and variable laws addressing site contamination, reviewing existing international, regional and national law of relevance to site contamination. It also offers detailed case studies of national approaches to the issue, and goes on to explore avenues for promoting the development of comprehensive domestic laws on site contamination, with a focus on the role of international law and actors. A detailed discussion analyzes such variations as a binding international legal instrument, a non-binding instrument, and a model framework for site contamination management. The text includes recommendations regarding the key elements needed for regulating site(...) 

Features
Global Approaches to Site Contamination Law offers a clear explanation of the definitions and legal principles that address site contamination, and a comprehensive survey of the current state of relevant international law. The book describes the complex and variable laws addressing site contamination, reviewing existing international, regional and national law of relevance to site(...) 

Contents

Fields of interest
Environmental Law / Policy / Ecojustice; International Environmental Law; Sources and Subjects of International Law, International Organizations; Soil Science & Conservation; Pollution; Environmental Management

Target groups
Professional/practitioner

Type of publication
Monograph

More on www.springer.com/978-94-007-5744-8

Hardcover
129,95 €
ISBN 978-94-007-5744-8
Usually dispatched within 3 to 5 business days.

Softcover
2013. XII, 459 p.
89,95 €
ISBN 978-94-007-4751-7
Usually dispatched within 3 to 5 business days.

E. Brandon, Tanunda, SA, Australia

R. Muradian, Radboud University Nijmegen, The Netherlands; L. Rival, University of Oxford, UK (Eds.)
Peasants, Culture and Indigenous Peoples

Critical Issues


This last volume in a trilogy published on the occasion of the 80th birthday of Rodolfo Stavenhagen, professor emeritus of El Colegio de Mexico, includes eight essays on Peasants, Culture and Indigenous Peoples: Critical Issues; Basic Needs, Peasants and the Strategy for Rural Development (1976); Cultural Rights: a Social Science Perspective (1998); The Structure of Injustice: Poverty, Marginality, Exclusion [...] | Contents


Fields of interest

Environmental Law / Policy / Ecojustice; History of Science; Human Rights

Target groups

Research

Type of publication

Monograph


Hardcover


Usually dispatched within 3 to 5 business days.

Principles of Animal Biometeorology

The book begins by describing in detail the mechanisms of energy exchange – radiative, convective, conductive and evaporative – together with techniques for their determination. The discussion extends to the importance of CO2, ozone and methane, together with that of aerosol pollutants and the evolution of atmospheric CO2. Subsequent chapters apply the results of the biophysical methods to mammals, birds and aquatic animals. Discussion includes problems of shelter and shade for animals in tropical environments and techniques for the thermal evaluation of shelters and for several tree types. The details of heat exchange between animals and the environment are presented, in separate [...] Features

Principles of Animal Biometeorology presents a thorough examination of the atmospheric environment in which animals live, and an equally comprehensive account of the processes of thermal energy exchanges between organisms and environment, with particular focus on tropical climates. The book begins by describing in detail the mechanisms of energy exchange – radiative, convective, conductive and [...] Contents


Fields of interest

Nature Conservation; Animal Physiology; Environmental Physics

Target groups

Upper undergraduate

Type of publication

Monograph


Hardcover


Usually dispatched within 3 to 5 business days.

Long Term Socio-Ecological Research

Studies in Society-Nature Interactions Across Spatial and Temporal Scales

The authors in this volume make a case for LTSER's potential in providing insights, knowledge and experience necessary for a sustainability transition. This expertly edited selection of contributions from Europe and North America reviews the development of LTSER since its inception and assesses its current state, which has evolved to recognize the value of formulating solutions to the host of ecological threats we face. Through many case studies, this book gives the reader a greater sense of where we are and what still needs to be done to engage in and make meaning from long-term, place-based and cross-disciplinary engagements with socio-ecological systems.

Features

The authors in this volume make a case for LTSER's potential in providing insights, knowledge and experience necessary for a sustainability transition. This expertly edited selection of contributions from Europe and North America reviews the development of LTSER since its inception and assesses its current state, which has evolved to recognize the value of formulating solutions to the host of ecological [...] Contents


Sustainable Development; Earth Sciences (general); Human Geography

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-94-007-1176-1

Hardcover


Usually dispatched within 3 to 5 business days.
Research, Action and Policy: Addressing the Gendered Impacts of Climate Change

Research, Action and Policy: Addressing the Gendered Impacts of Climate Change presents the voices of women from every continent, who face vastly different climate events and challenges. The book heralds a new way of understanding climate change that incorporates gender justice and human rights for all.

Contents

Preface

Part I: Introducing Gender and Climate Change

1. Introducing Gender and Climate Change

2. Gender Climate Knowledge for Justice

3. A Climate for Feminist Intervention

4. Post-Conventional Climate Knowledge for Feminist Action

5. Two Solitudes, Many Bridges, Big Tent: Approaches to Gender, Climate Change, and Social Studies and Climate Change

Part II: Questioning Gender and Climate Change

1. Gender Perspective

2. Gender Climate Knowledge for Justice

3. Amate Justice

4. Post-Conventional Climate for Feminist Intervention: Feminist Science for Gender Justice

5. Conclusions

Field of interest

Climate Change; Gender Studies; Sociology; General; Social Work; Social Structure; Social Inequality; Human Geography

Target groups

Research

Type of publication

Contributed volume


Hardcover

2013. XXI, 281 p. 21 illus., 8 in color. 99,95 €


Usually dispatched within 3 to 5 business days.

Reviews of Environmental Contamination and Toxicology Volume 223

Reviews of Environmental Contamination and Toxicology attempts to provide concise, critical reviews of timely advances, philosophy and significant areas of accomplished or needed endeavor in the total field of xenobiotics, in any segment of the environment, as well as toxicological implications.

Features

CONTENTS

Foreword

Preface

Air Contaminant Statistics Distribution with Application to PM10 in Santiago, Chile

Carolina Marchant, Victor Leiva, M. Fernanda Cavieres, and Antonio Sanhueza

Advances in the Application of Plant Growth-Promoting Rhizobacteria in Phyto remediation of Heavy Metals

Hamid Iqbal Tak, Faheem Ahmad and Olubukola Okusola

Babalola

Toxicity Reference

News

Contents

Preface

Foreword

Air Contaminant Statistics Distribution with Application to PM10 in Santiago, Chile

Carolina Marchant, Victor Leiva, M. Fernanda Cavieres, and Antonio Sanhueza

Advances in the Application of Plant Growth-Promoting Rhizobacteria in Phyto remediation of Heavy Metals

Hamid Iqbal Tak, Faheem Ahmad and Olubukola Okusola

Toxicity Reference

Fields of interest

Ecotoxicology; Environmental Management; Waste Management / Waste Technology

Target groups

Research

Type of publication

Contributed volume


Hardcover

2013. IX, 147 p. 21 illus., 3 in color. (Reviews of Environmental Contamination and Toxicology, Vol. 223) 99,95 €


Usually dispatched within 3 to 5 business days.

Soil Emission of Nitrous Oxide and its Mitigation

Nitrous oxide gas is a long-lived relatively active greenhouse gas (GHG) with an atmospheric lifetime of approximately 120 years, and heat trapping effects about 310 times more powerful than carbon dioxide per molecule. It contributes about 6% of observed global warming. Nitrous oxide is not only a potent GHG, but it also plays a significant role in the depletion of stratospheric ozone. This book describes the anthropogenic sources of N2O with major emphasis on agricultural activities. It summarizes an overview of global cycling of N and the role of nitrous oxide on global warming and ozone depletion, and then focus on major source, soil borne nitrous oxide emissions. The [...]
The Economy of Green Cities

A World Compendium on the Green Urban Economy

This volume bridges the gap between the global promotion of the Green Economy and the manifestation of this new development strategy at the urban level. Green cities are an imperative solution, not only in meeting global environmental challenges but also in helping to ensure socio-economic prosperity at the local level.

Features

Green Economy is a key theme of the June 2012 Rio +20 UN Conference on Sustainable Development. The inclusive Green Urban Economy approach embodies a challenge to local government leaders and city practitioners to apply existing tools and methods in new ways to develop innovative approaches by engaging economic-environmental considerations and stakeholders in a much more active fashion. This [...]
Online orders shipping within 2-3 days.
ISBN 978-3-531-19702-9
32,66 €
2013. I, 202 S.
Softcover

More on www.springer.com/978-3-531-19702-9

Monograph

Type of publication
Research

Target groups
Science

Fields of interest
Science

Geography

N. Bondorf

Profession und Kooperation
Eine Verhältnisbestimmung am Beispiel der Lehrerkooperation


Features
Response of Flood Events to Land Use and Climate Change

A. Ramesh, University of Vienna, Austria

Analyzed by Hydrological and Statistical Modeling in Barcelonnette, France

This book is an original and novel contribution to flood hazard assessment, climate change and land use change and is intended to serve both as an effective source of information and a valuable basis for priority setting and further technical, financial and political decisions regarding flood hazard assessment. The study area is located on the floodplain of the Ubaye River in the Barcelonnette area, part of the Alpes de Haute Provence in southeast France. The book offers a comparative overview of the major challenges faced when dealing with flood hazards. The research presented is intended to promote a deeper understanding of how climate change and land use change processes have [...] Features

This book is an original and novel contribution to flood hazard assessment, climate change and land use change and is intended to serve both as an effective source of information and a valuable basis for priority setting and further technical, financial and political decisions regarding flood hazard assessment. The study area is located on the floodplain of the Ubaye River in the Barcelonnette area, part of [...] Contents

Theoretical background. - Methodology. - Study area. - Available data. - Results. - Overall conclusion. - Discussion.

Fields of interest

Physical Geography; Climate Change; Natural Hazards; Hydrogeology; Remote Sensing / Photogrammetry

Target groups

Research

Type of publication

Monograph

More on www.springer.com/978-3-642-33583-9

Hardcover

2013. XVIII, 249 p. 160 illus., 132 in color. (Springer Thesis)

99,95 €

ISBN 978-3-642-33583-9

Usually dispatched within 3 to 5 business days.

The Future of Mountain Agriculture

S. Mann, Agroscope Reckenholz-Tänikon ART, Ettenhausen, Switzerland (Ed.)

Mountain agriculture is a socially and culturally unique system, but also a regionally important economic sector. In a globalising world, it is clear that fertile areas on all continents will always be used to produce large quantities of agricultural products in order to feed the world and, increasingly, provide biomass as a source of energy. It is far less clear, however, how land use in steep and more peripheral regions will evolve. By definition, farmland in mountain areas is more difficult to work because of steep slopes and missing accessibility. Climate conditions and poor soil quality often add to these adverse conditions. Through overcoming limited views from one region only [...] Features

Mountain agriculture is a socially and culturally unique system, but also a regionally important economic sector. In a globalising world, it is clear that fertile areas on all continents will always be used to produce large quantities of agricultural products in order to feed the world and, increasingly, provide biomass as a source of energy. It is far less clear, however, how land use in steep and more [...] Contents

Introduction. - Land Use and Landscape Change in the Rockies: Implications for Mountain Agriculture. - Conservation Agriculture in the Andean Highland: Promise and Precautions. - Enhancing crop diversity and livelihood security in the Andes through the emergence of agricultural innovation systems. - The future of agriculture in the High Atlas Mountains of Morocco: The need to integrate traditional ecological knowledge. - Climate Change and the future of Mountain Farming on Mt. Kilimanjaro. - Is mountain farming no longer viable? - The complex dynamics of farming abandonment in the [...] Fields of interest

Landscape, Regional and Urban Planning; Sustainable Development; Agriculture

Target groups

Research

Type of publication

Monograph

More on www.springer.com/978-3-642-33583-9

Hardcover

2013. VI, 176 p. 30 illus. (Springer Geography)

99,95 €

ISBN 978-3-642-33583-9

Online orders shipping within 2-3 days.

Praxishandbuch für Mediziner

H.-P. Ries, kwm - Rechtsanwälte Münster; K.-H. Schnieder, kwm - Rechtsanwälte Münster; R. Großbölting, kwm - Rechtsanwälte Berlin

Arztrecht


Jeder niedergelassene Arzt wird im Rahmen seiner beruflichen Tätigkeit tagtäglich mit Fragestellungen konfrontiert, die nicht Gegenstand seiner medizinischen Ausbildung waren. Diese Frage- und Problemstellungen wirken sich oftmals in erheblichem Maße aus - sei es persönlich im Verhältnis zum Patienten, finanziell im Verhältnis zu den Körperschaften oder hinsichtlich der beruflichen Perspektive. Ein [...] Contents

Privatpatient. - Der Kassenpatient. - Der Arzt und die KV. - Der Arzt und die besonderen Versorgungsformen. - Ärztliches Standsrecht. - Der Arzt und das Disziplinarrecht / Zulassungsentziehung. - Der Arzt und das Strafrecht. - Der Arzt und die berufliche Kooperation. - Arzthaftpflichtrecht. - Der Arzt und das Arbeitsrecht. - Der Arzt und das Mietrecht. - Praxiskauf und Praxishgabe. - Der Arzt und das Familienrecht.

Fields of interest

Medical Law; Practice Management

Target groups

Professional/practitioner

Type of publication

Professional book

More on www.springer.com/978-3-642-25884-8

Hardcover


46,68 €

ISBN 978-3-642-25884-8

Usually dispatched within 3 to 5 business days.
Der GmbH-Geschäftsführer

Rechte und Pflichten, Anstellung, Vergütung und Versorgung, Haftung und Strafbarkeit


Features

Jeder Geschäftsführer wird mit einer Vielzahl von Pflichten konfrontiert. Als leitendem Manager stehen ihm aber auch zahlreiche Gestaltungsinstrumente zur Verfügung. Um seine Aufgaben ordnungsgemäß erfüllen und seine Handlungsspielräume effektiv nutzen zu können, ist für den Geschäftsführer die Kenntnis der rechtlichen Rahmeneinrichtungen unerlässlich. Auch ist er daran interessiert, seine haftungsrechtlichen [...]
Introduction to Korean Law

As a result of globalization, the barriers between countries are coming down. There is more interaction between countries than ever and mutual understanding and communication have become essential considerations. In such an atmosphere, the Korea Legislation Research Institute has published this book to spread awareness of outstanding Korean law and of its legal system throughout the globe, as the authoritative sources of legal information for other countries. This book explains Korean law in nine chapters that focus on its distinguishing aspects. The nine authors who have participated are all prominent scholars who have contributed their expertise to the project.

Features

As a result of globalization, the barriers between countries are coming down. There is more interaction between countries than ever and mutual understanding and communication have become essential considerations. In such an atmosphere, the Korea Legislation Research Institute has published this book to spread awareness of outstanding Korean law and of its legal system throughout the globe, as the [...]
Lawyers Making Meaning....
The Semiotics of Law in Legal Education II

This book presents a structure for understanding and exploring the semiotic character of law and law systems. Cultivating a deep understanding for the ways in which lawyers make meaning—the way in which they help make the world and are made, in turn by the world they create—can provide a basis for consciously engaging in the work of the law and in the production of meaning. The book first introduces the reader to the idea of semiotics in general and legal semiotics in particular, as well as to the major actors and shapers of the field, and to the heart of the matter: signs. The second part studies the development of the strains of thinking that together now define semiotics, with[...]

Features
This book presents a structure for understanding and exploring the semiotic character of law and law systems. Cultivating a deep understanding for the ways in which lawyers make meaning—the way in which they help make the world and are made, in turn by the world they create—can provide a basis for consciously engaging in the work of the law and in the production of meaning. The book first introduces the[...]

Contents

Fields of interest
Theories of Law, Philosophy of Law, Legal History; Communication Studies; Philosophy of Language; Professional and Vocational Education; Sign Language; Developmental Psychology

Target groups
Graduate

Type of publication
Graduate/advanced undergraduate textbook

More on www.springer.com/978-94-007-5457-7

Monstrous Crimes and the Failure of Forensic Psychiatry

The metaphor of the monster or predator—usually a sexual predator, drug dealer in areas frequented by children, or psychopathic murderer—is a powerful framing device in public discourse about how the criminal justice system should respond to serious violent crimes. The cultural history of the monster reveals significant features of the metaphor that raise questions about the extent to which justice can be achieved in both the punishment of what are regarded as ‘monstrous crimes’ and the treatment of those who commit such crimes. This book is the first to address the connections between the history of the monster metaphor, the 19th-century idea of the criminal as monster, and the 20th[...]

Features
The metaphor of the monster or predator—usually a sexual predator, drug dealer in areas frequented by children, or psychopathic murderer—is a powerful framing device in public discourse about how the criminal justice system should respond to serious violent crimes. The cultural history of the monster reveals significant features of the metaphor that raise questions about the extent to which justice can be achieved in both the punishment of what are regarded as ‘monstrous crimes’ and the treatment of those who commit such crimes. This book is the first to address the connections between the history of the monster metaphor, the 19th-century idea of the criminal as monster, and the 20th[...]

Contents

Fields of interest
Theories of Law, Philosophy of Law, Legal History; Psychiatry; Psychology and Law; Personality and Social Psychology; Ethics

Target groups
Research

Type of publication
Monograph

More on www.springer.com/978-94-007-5278-8

Hardcover
129,95 €
ISBN 978-94-007-5278-8
Usually dispatched within 3 to 5 business days.

National Legal Systems and Globalization

New Role, Continuing Relevance

This book presents the results of research project financed by the Hague Institute for the Internationalization of Law (Hiil) and carried out at the Tilburg Law and Economics Center (TILEC) of Tilburg University. The project team shows that globalisation, instead of threatening national legal systems, puts them in a new role and gives them continuing relevance. First of all, once one takes a more functional view of the law, based on law and economics and comparative law literature, harmonization or unification of national legal systems is no longer a foregone conclusion. Secondly, fundamental constitutional principles continue to bear in the era of multi-level and transnational[...]

Features
For the researchers involved in this book, the prospects of national law seemed less dire than is usually acknowledged. The project team shows that globalization, instead of threatening national legal systems, puts them in a new role and gives them continuing relevance. First of all, once one takes a more functional view of the law, based on law and economics and comparative law literature, harmonization or[...]

Contents

Fields of interest
Theories of Law, Philosophy of Law, Legal History; European Law; Private International Law, Comparative Law, Administrative Law

Target groups
Research

Type of publication
Contributed volume


Hardcover
129,95 €
Usually dispatched within 3 to 5 business days.
The Principle of Proportionality

The book applies the principle of proportionality to a number of conventional wisdoms in the social sciences, such as in dubio pro reo and the assumption that a crime is always a crime; that you must go to war if instructed to do so. Individuals and states are not obliged to come to the aid of stricken individuals and states. The book is organised in seven chapters, each dealing with a self-standing theme related to proportionality.

Features
The book applies the principle of proportionality to a number of conventional wisdoms in the social sciences, such as in dubio pro reo and the assumption that a crime is always a crime; that you must go to war if instructed to do so. Individuals and states are not obliged to come to the aid of stricken individuals and states. The book is organised in seven chapters, each dealing with a self-standing theme related to proportionality.

Contents

Fields of interest
Criminal Law; Criminal Justice; Philosophy of Law; European Law; Philosophy of Man; Public International Law

Type of publication
Monograph


Hardcover
2013. XIII, 76 p. (SpringerBriefs in Law, Vol.)

Features
The book applies the principle of proportionality to a number of conventional wisdoms in the social sciences, such as in dubio pro reo and the assumption that a crime is always a crime; that you must go to war if instructed to do so. Individuals and states are not obliged to come to the aid of stricken individuals and states. The book is organised in seven chapters, each dealing with a self-standing theme related to proportionality.

Verdeckte strafprozessuale Ermittlungsmaßnahmen


Features
Die Heimlichkeit ist kleiner gemeinsamer Nenner und zugleich dogmatischer Problempunkt der verdeckten strafprozessualen Ermittlungsmaßnahmen. Entspricht Heimlichkeit dem Zwang zu selbstbelastenden Aussagen? Warum können rein beobachtende Maßnahmen überhaupt die grundrechtlich geschützten Freiheiten des Einzelnen verkürzen? Sind die Vorschriften der StPO Rechtfertigungen für solche Eingriffe oder hierfür zu [...]

Contents

Fields of interest
Criminal Law; Constitutional Law; Criminal Justice; Philosophy of Law; European Law; Philosophy of Man; Public International Law

Type of publication
Monograph

More on www.springer.com/978-3-642-32660-8
Animal Lectins: Form, Function and Clinical Applications

Animal Lectins: Form, Function and Clinical Applications presents up-to-date knowledge of animal lectins. Detailed descriptions on biological activities, tissue and/or subcellular distribution, molecular structure, gene organization, possible functions, clinical applications, lectin-ligand interactions and their intervention for therapeutic purposes are provided. The recently discovered C-type lectins as well as further novel super-families of this group of molecules are described in detail. Furthermore, the clinical significance of animal lectins in inflammatory diseases, defects of immune defense and autoimmune are described and their application as drugs and therapeutic targets.

Features
Animal Lectins: Form, Function and Clinical Applications presents up-to-date knowledge of animal lectins. Detailed descriptions on biological activities, tissue and/or subcellular distribution, molecular structure, gene organization, possible functions, clinical applications, lectin-ligand interactions and their intervention for therapeutic purposes are provided. The recently discovered C-type lectins.

Contents

Fields of interest
Protein-Ligand Interactions; Protein Science; Immunology; Biochemistry

Target groups
Research

Type of publication
Monograph

More on www.springer.com/978-3-7091-1064-5

Hardcover
2012. XV, 1108 p. 173 illus., 69 in color.
199,95 €
ISBN 978-3-7091-1064-5

Usually dispatched within 3 to 5 business days.

Basic Cell Culture Protocols

At some point in their careers, virtually every scientist and technician, as well as many medical professionals, regardless of their area of specialization have a need to utilize cell culture systems. Updating and significantly expanding upon the previous editions, Basic Cell Culture Protocols, Fourth Edition provides the novice cell cultured with sufficient information to perform the basic techniques, to ensure the health and identity of their cell lines, and to be able to isolate and culture specialized primary cell types. The intent of this extensive volume is to generate a valuable resource containing clear methodologies pertinent to current areas of investigation, rather than...

Features
At some point in their careers, virtually every scientist and technician, as well as many medical professionals, regardless of their area of specialization have a need to utilize cell culture systems. Updating and significantly expanding upon the previous editions, Basic Cell Culture Protocols, Fourth Edition provides the novice cell cultured with sufficient information to perform the basic.

Contents

Fields of interest
Cell Biology; Cell Culture

Target groups
Professional/practitioner

Type of publication
Contributed volume

More on www.springer.com/978-1-62703-127-1

Hardcover
2013. XIV, 550 p. 104 illus., 44 in color. (Methods in Molecular Biology, Vol. 946)
124,95 €
ISBN 978-1-62703-127-1

Online orders shipping within 2-3 days.

Biologie für Ingenieure

In vielen Ingenieurstudiengängen brauchen die Studierenden eine Einführung in die Biologie, wofür im Studienplan meist nur ein kleines Zeitenfenster zur Verfügung steht. Dieses Buch soll das konzentrierte Nacharbeiten und eine gezielte Vorbereitung auf Prüfungen ermöglichen und Neugierde wecken. In diesem Kurzlehrbuch werden die wichtigsten Zusammenhänge und Funktionsprinzipien der modernen Biologie, die generelle Methodik und die wesentlichen Eigenschaften der Lebewesen und Lebensgemeinschaften vorgestellt. Wie ist der Weg vom Gen zum Organ und zum Verhalten? Weshalb ist nicht zu erwarten, dass ein Lebewesen dauerhaft perfekt ist? Ein Überblick über die Mechanismen der Evolution und die [...]

Features
In vielen Ingenieurstudiengängen brauchen die Studierenden eine Einführung in die Biologie, wofür im Studienplan meist nur ein kleines Zeitenfenster zur Verfügung steht. Dieses Buch soll das konzentrierte Nacharbeiten und eine gezielte Vorbereitung auf Prüfungen ermöglichen und Neugierde wecken. In diesem Kurzlehrbuch werden die wichtigsten Zusammenhänge und Funktionsprinzipien der modernen Biologie, die [...]

Contents

Fields of interest
Life Sciences (general); Engineering (general); Microbiology; Biomedical Engineering

Target groups
Lower undergraduate

Type of publication
German textbook

More on www.springer.com/978-3-8274-3005-2

Softcover
2013. 352 S. 171 Abb. 27,99 €
ISBN 978-3-8274-3005-2

Online orders shipping within 2-3 days.
Cell Death Signaling in Cancer Biology and Treatment

A key goal in the treatment of cancer is to achieve selective and efficient killing of tumor cells. The aim of Cell Death Signaling in Cancer Biology and Treatment is to describe state-of-the-art approaches and future opportunities for achieving this goal by targeting mechanisms and pathways that regulate cancer cell death. In this book, molecular defects in cell death signaling that characterize cancer cells, including dysregulation of cell death due to overexpression/hyperactivation of oncogenes, as well as the loss of tumor suppressor proteins will be described. The potential for targeting microRNAs will be discussed. Multiple chapters will describe preclinical and clinical [...] 

Features

Defects in cell death pathways promote tumor development and progression, with potentially devastating consequences for cancer patients. Greater understanding of the defects occurring in cancer cells, and the unique characteristics of tumors which can make them vulnerable to cell death stimuli, offers tremendous opportunities for developing novel and effective anti-cancer therapies. In Cell Death in [...] 

Contents

Defective Apoptosis Signaling in Cancer.- The Warburg Effect and Beyond: Metabolic Dependencies for Cancer Cells.- Emerging Opportunities for Targeting the Tumor-Stroma Interactions for Increasing the Efficacy of Chemotherapy.- The Role of Autophagy in Drug Resistance and Potential for Therapeutic Targeting.- microRNAs in Cell Death and Cancer.- Targeting DNA Repair Pathways for Cancer Therapy.- Molecular Chaperones and How Addiction Matters in Cancer Therapy.- Sphingolipid Metabolism and Signaling as a Target for Cancer Treatement.- Leading Small Molecule Inhibitors of Anti-apoptotic [...] 

Fields of interest

Cell Biology; Apoptosis; Cancer Research

Target groups

Professional/practitioner

Type of publication

Contributed volume

More on www.springer.com/978-1-4614-5846-3

Hardcover

2013, XVI, 406 p. 40 illus., 31 in color. (Cell Death in Biology and Diseases, Vol. 1)

149,95 €


Online orders shipping within 2-3 days.

Data Mining for Systems Biology

Methods and Protocols

The post-genomic revolution is witnessing the generation of petabytes of data annually, with deep implications ranging across evolutionary theory, developmental biology, agriculture, and disease processes. Data Mining for Systems Biology: Methods and Protocols, surveys and demonstrates the science and technology of converting an unprecedented data deluge to new knowledge and biological insight. The volume is organized around two overlapping themes, network inference and functional inference. 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, [...] 

Features

The post-genomic revolution is witnessing the generation of petabytes of data annually, with deep implications ranging across evolutionary theory, developmental biology, agriculture, and disease processes. Data Mining for Systems Biology: Methods and Protocols, surveys and demonstrates the science and technology of converting an unprecedented data deluge to new knowledge and biological insight. The [...] 

Contents

Dense Module Enumeration in Biological Networks.- Discovering Interacting Domains and Motifs in Protein-Protein Interaction Networks.- Global Alignment of Protein-Protein Interaction Networks.- Structure Learning for Bayesian Networks as Models of Biological Networks.- Supervised Inference of Gene Regulatory Networks from Positive and Unlabeled Examples.- Mining Regulatory Network Connections by Ranking Transcription Factor Target Genes using Time Series Expression Data.- Identifying Pathways of Co-ordinated Gene Expression.- Mining Frequent Subtrees in Glycan Data using the RING5 Glycan Miner [...] 

Fields of interest

Bioinformatics; Systems Biology

Target groups

Professional/practitioner

Type of publication

Contributed volume

More on www.springer.com/978-1-62703-106-6

Hardcover

2013, XI, 297 p. 77 illus., 18 in color. (Methods in Molecular Biology, Vol. 939)

94,95 €


Online orders shipping within 2-3 days.

Dynamic Models of Infectious Diseases

Volume 1: Vector-Borne Diseases

Despite great advances in public health worldwide, insect vector-borne infectious diseases remain a leading cause of morbidity and mortality. Diseases that are transmitted by arthropods such as mosquitoes, sand flies, fleas, and ticks affect hundreds of millions of people and account for nearly three million deaths all over the world. In the past there was very little hope of controlling the epidemics caused by these diseases, but modern advancements in science and technology are providing a variety of ways in which these diseases can be handled. Clearly, the process of transmission of an infectious disease is a nonlinear (not necessarily linear) dynamic process which can be [...] 

Features

Despite great advances in public health worldwide, insect vector-borne infectious diseases remain a leading cause of morbidity and mortality. Diseases that are transmitted by arthropods such as mosquitoes, sand flies, fleas, and ticks affect hundreds of millions of people and account for nearly three million deaths all over the world. In the past there was very little hope of controlling the epidemics [...] 

Contents


Fields of interest

Systems Biology; Infectious Diseases; Bioinformatics; Biotechnology

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-1-4614-3960-8

Hardcover

2013, XI, 292 p. 66 illus., 46 in color.

149,95 €

ISBN 978-1-4614-3960-8

Online orders shipping within 2-3 days.
Ecophysiology and Responses of Plants under Salt Stress

This book will shed light on the effect of salt stress on plants development, proteomics, genomics, genetic engineering, and plant adaptations, among other topics. Understanding the molecular basis will be helpful in developing selection strategies for improving salinity tolerance. The book will cover around 25 chapters with contributors from all over the world.

Features
Salt stress is one of the major abiotic stresses that imposes negative effect on plants and consequently on the plant productivity. The causal factors for salinity stress may be geological, climatic and hydrological in nature. Soil is an invaluable asset for plant productivity yielding a variety of products of economic use. Worldwide, huge loss of plant produce is incurred every year due to salinity. [...]”

Contents
Preface.- Role of Ca2+ in alleviating salt stress.- An overview on the role of plant volatile organic compounds (VOCs) in salt stress.- Adaptive Plasticity of salt stressed root systems.- Salt-stressed plants and their responses to cadmium.- Soil and water management for sustained agriculture in alluvial plains and floodplains exposed to salinity: A case study of Nereiva river estuary.- In vitro culture and salt stress in plants.- Role of Arbuscular mycorrhiza in inducing resistance to salinity.- The role of NO in alleviating salt stress in plants.- Plant growth regulators and biomass[...]

Fields of interest
Plant Sciences; Plant Physiology; Plant Breeding / Biotechnology; Plant Genetics and Genomics

Target groups
Research

Type of publication
Contributed volume

More on www.springer.com/978-1-4614-4746-7

Hardcover
2013. XV, 510 p. illus., 27 in color.
149,95 €

Usually dispatched within 3 to 5 business days.

Electron Crystallography of Soluble and Membrane Proteins

Methods and Protocols
The basic principle of electron crystallography is to calculate a 3D density map by combining the amplitudes obtained from electron diffraction patterns with the experimental phases calculated from images of two-dimensional crystals of membrane or soluble proteins. This technology is very well developed and has produced a number of atomic models of membrane proteins in a lipid environment. Focused on comprehensive experimental protocols, Electron Crystallography of Soluble and Membrane Proteins: Methods and Protocols covers the entire range of techniques used in electron crystallography, including protein sample preparation, 2D crystallization, and screening in negative stain over[...]

Features
The basic principle of electron crystallography is to calculate a 3D density map by combining the amplitudes obtained from electron diffraction patterns with the experimental phases calculated from images of two-dimensional crystals of membrane or soluble proteins. This technology is very well developed and has produced a number of atomic models of membrane proteins in a lipid environment. Focused on[...]”

Contents

Fields of interest
Protein Science; Biological Microscopy

Target groups
Professional/practitioner

Type of publication
Contributed volume


Hardcover
2013. XIII, 586 p. illus., 63 in color. (Methods in Molecular Biology, Vol. 955)
124,95 €

Online orders shipping within 2-3 days.

Forest Landscape Restoration

Integrating Natural and Social Sciences

Restoration ecology, as a scientific discipline, developed from practitioners’ efforts to restore degraded land, with interest also coming from applied ecologists attracted by the potential for restoration projects to apply and/or test developing theories on ecosystem development. Since then, forest landscape restoration (FLR) has emerged as a practical approach to forest restoration particularly in developing countries, where an approach which is both large-scale and focuses on meeting human needs is required. Yet despite increased investigation into both the biological and social aspects of FLR, there has so far been little success in systematically integrating these two[...]

Features
Restoration ecology, as a scientific discipline, developed from practitioners’ efforts to restore degraded land, with interest also coming from applied ecologists attracted by the potential for restoration projects to apply and/or test developing theories on ecosystem development. Since then, forest landscape restoration (FLR) has emerged as a practical approach to forest restoration particularly in[...]”

Contents

Fields of interest
Landscape Ecology; Forestry Management; Environmental Management; Sustainable Development; Social Sciences (general)

Target groups
Research

Type of publication
Contributed volume

More on www.springer.com/978-94-007-5325-9

Hardcover
2012. VI, 330 p. 56 illus., 32 in color. (World Forests, Vol. 15)
149,95 €
ISBN 978-94-007-5325-9

Usually dispatched within 3 to 5 business days.
Fungal Associations

This new edition of Fungal Associations focuses on mycorrhizas, lichens and fungal-bacterial symbioses. It has been completely revised, updated and expanded. Renowned experts present thorough reviews and discuss the most recent findings on molecular interactions between fungi and plants or bacteria that lead to morphological alterations and novel properties in the symbionts. New insights into the beneficial impact of fungal associations on ecosystem health are provided and documented with striking examples.

Features
This new edition of Fungal Associations focuses on mycorrhizas, lichens and fungal-bacterial symbioses. It has been completely revised, updated and expanded. Renowned experts present thorough reviews and discuss the most recent findings on molecular interactions between fungi and plants or bacteria that lead to morphological alterations and novel properties in the symbionts. New insights into the [...]

Contents
- Exploring the Genome of Glomeromycotan Fungi: Molecular Approaches to Arbuscular Mycorrhiza Functioning: The Interface Between Plants and Mycorrhizal Fungi: Nutrient Exchange, Signaling and Cell Organization.
- Arbuscular Mycorrhiza -- a Key Component of Sustainable Plant--Soil Ecosystems.
- The Geosiphon--Nostoc Endosymbiosis and its Role as a Model for Arbuscular Mycorrhiza Research.
- De-Constructing a Mutualist: How the Molecular Blueprints of Model Symbiotic Fungi are Changing our Understanding of Mutualism.
- Carbohydrates Exchange Between Symbionts in Ectomycorrhizas: Lipids of [...]

Fields of interest
- Microbiology; Plant Sciences; Ecology

Target groups
- Research

Type of publication
- Handbook

More on www.springer.com/978-3-642-30825-3

Hardcover
- 2012. XXVI, 406 p. 84 illus., 62 in color. (The Mycota, Vol. 26)
- 199,95 €
- ISBN 978-3-642-30825-3
- Usually dispatched within 3 to 5 business days.

Genome Mapping and Genomics in Laboratory Animals

Mapping of animal genomes has generated huge databases and several new concepts and strategies, which are useful to elucidate origin, evolution and phylogeny. Genetic and physical maps of genomes further provide precise details on chromosomal location, function, expression and regulation of academically and economically important genes. The series Genome Mapping and Genomics in Animals provides comprehensive and up-to-date reviews on genomic research on a large variety of selected animal systems, contributed by leading scientists from around the world. Laboratory animals are those species that by accident of evolution, domestication and selective breeding are amenable to maintenance.[...]

Features
- Mapping of animal genomes has generated huge databases and several new concepts and strategies, which are useful to elucidate origin, evolution and phylogeny. Genetic and physical maps of genomes further provide precise details on chromosomal location, function, expression and regulation of academically and economically important genes. The series Genome Mapping and Genomics in Animals provides [...]

Contents
- Genomics in the Sea Urchin: New Perspectives on a Perennial Model System.
- Genome Mapping and Genomics of Caenorhabditis elegans.
- Genome Mapping and Genomics in Drosophila.
- Genome, Functional Genomics and Proteomics in Ascidians.
- Punching above their Weight: The Compact Genomes of Pufferfishes.
- Medaka Genomics and the Methods and Resources for Decoding Genomic Functions.
- Xenopus Genomics and Genetics: Progress and Prospects.
- Mouse Genome Mapping and Genomics.

Fields of interest
- Animal Genetics and Genomics; Transgenics; Biological Techniques

Target groups
- Research

Type of publication
- Handbook

More on www.springer.com/978-3-642-31315-8

Hardcover
- 2012. X, 261 p. 40 illus., 14 in color. (Genome Mapping and Genomics in Animals, Vol. 4)
- 149,95 €
- ISBN 978-3-642-31315-8
- Usually dispatched within 3 to 5 business days.

Mammalian Oocyte Regulation

Methods and Protocols
Mammalian oocytes occupy a critical nexus in reproduction as they not only contribute half the genetic makeup of the embryo but also provide virtually all of the cytoplasmic building blocks required for sustaining embryogenesis. The journey that transforms a primordial germ cell into a mature oocyte (or egg) capable of fertilization and embryonic development is of unrivalled complexity. The end-product of this remarkable developmental process is the “mature” egg, now replete with macromolecules and organelles, and poised to support embryonic development if fertilization should occur. Given the importance of the oocyte for embryonic development, it is of no surprise that the oocyte[...]

Features
- Mammalian oocytes occupy a critical nexus in reproduction as they not only contribute half the genetic makeup of the embryo but also provide virtually all of the cytoplasmic building blocks required for sustaining embryogenesis. The journey that transforms a primordial germ cell into a mature oocyte (or egg) capable of fertilization and embryonic development is of unrivalled complexity. The end-product of [...]

Contents
- Studying Recombination in Mouse Oocytes.
- Analyzing Recombinants in Female Mouse Meiosis.
- Studying Meiosis Specific Cohesins in Mouse Embryonic Oocytes.
- Immunohistochemical Approaches to the Study of Human Fetal Ovarian Development.
- Protein Kinase Assays for Measuring MPF and MAPK Activities in Mouse and Rat Oocytes and Early Embryos.
- Time-Lapse Epi-Fluorescence Imaging of Expressed cRNA to Cyclin B1 for Studying Meiosis I in Mouse Oocytes.
- Using FRET to Study RanGTP Gradients in Live Mouse Oocytes.
- Making cRNA for Microinjection and Expression of Fluorescently-Tagged Proteins[...]

Fields of interest
- Cell Biology; Embryology

Target groups
- Professional/practitioner

Type of publication
- Contributed volume


Hardcover
- 2013. XI, 311 p. 61 illus., 19 in color. (Methods in Molecular Biology, Vol. 957)
- 94,95 €
- Usually dispatched within 3 to 5 business days.
Microbial Metal Respiration

From Geochemistry to Potential Applications

Microbes can respire on metals. This seemingly simple finding is one of the major discoveries that were made in the field of microbiology in the last few decades. The importance of this observation is evident. Metals are highly abundant on our planet. Iron is even the most abundant element on Earth and the forth most abundant element in the Earth’s crust. Hence, in some environments iron, but also other metals or metalloids, are the dominant respiratory electron acceptors. Their reduction massively drives the carbon cycle in these environments and establishes redox cycles of the metallic electron acceptors themselves. These redox cycles are not only a driving force for other biotic [...]
Mosquito Vectors of Japanese Encephalitis Virus from Northern India

B.P. Das, National Centre for Disease Control, Delhi, India

Role of BPD hop cage method

Japanese Encephalitis (JE), a mosquito borne disease, is the leading cause of viral encephalitis in 14 Asian countries due to its epidemic potential, high case fatality rate and increased possibility of lifelong disability in patients who recover from this dreadful disease. In spite of seriousness of the disease, still only few books are available for ready reference. Hence, this book will be useful for students, entomologists, paramedical staff and vector control managers in public health. The objective of the book is to disseminate the knowledge gained by the author from ecological studies on JE vectors undertaken in 2 endemic and 2 non-endemic areas of Northern India over a period [...]
Rangeland Stewardship in Central Asia
Balancing Improved Livelihoods, Biodiversity Conservation and Land Protection

This volume of 18 chapters is the work of more than 30 authors, many of whom are natives of the Central Asian region or are researchers who have dedicated a large part of their working lives to studying the development dynamics in this vast and fascinating region. The work focuses on the 20 years since the collapse of the Soviet Union in 1990. But it also traces the attitudes of land users to the land dating from before the late 19th century, when Russian conquest and colonization occurred, and through the upheavals caused by Soviet-style collectivization and sedentarization. The book is rich with new data presented in 68 easy to understand charts/graphs (many in color) and 50 [...] features.

Contents

Fields of interest
Agriculture; Economic Geography; Sustainable Development; Environmental Management; Regional and Cultural Studies; Interdisciplinary Studies

Target groups
Graduate

Type of publication
Contributed volume

More on [www.springer.com](http://www.springer.com/978-94-007-5366-2)

Hardcover
2012, XXIV, 458 p. 91 illus., 61 in color. 149.95 € ISBN 978-94-007-5366-2
Usually dispatched within 3 to 5 business days.

Rice Protocols
With the completion of a finished rice genome sequence, increasing efforts have focused on functional characterization of rice genes, elucidation of the underlying mechanisms involved in major agronomic traits (e.g., high yield, grain quality, abiotic stress tolerance, and disease resistance), and the subsequent translation of genomic knowledge into agicultural productivity via molecular breeding and improved cultural practice. To meet increasing interest in this field, Rice Protocols has been compiled to provide a series of core techniques and approaches commonly used in studying rice molecular biology and functional genomics. These approaches include genetic and molecular [...] features.

Contents

Fields of interest
Plant Sciences; Plant Genetics and Genomics

Target groups
Research

Type of publication
Contributed volume

More on [www.springer.com](http://www.springer.com/978-1-62703-193-6)

Hardcover
Usually dispatched within 3 to 5 business days.

Single-molecule Studies of Proteins
In Single Molecule Studies of Proteins, expert researchers discuss the successful application of single-molecule techniques to a wide range of biophysical events, such as the imaging and mapping of cell surface receptors, the analysis of the unfolding and folding pathways of single proteins, the analysis interaction forces between biomolecules, the study of enzyme catalysis or the visualization of molecular motors in action. The chapters are aimed at established investigators and post-doctoral researchers in the life sciences wanting to pursue research in the various areas in which single-molecule approaches are important; this volume also remains accessible to advanced graduate[...]

Contents

Fields of interest
Protein Science; Biophysics and Biological Physics; Single Molecule Studies, Molecular Motors; Biochemistry

Target groups
Professional/practitioner

Type of publication
Contributed volume

More on [www.springer.com](http://www.springer.com/978-1-4614-4920-1)

Hardcover
Usually dispatched within 3 to 5 business days.
Systems Biology of Tumor Dormancy

This volume is based on the Workshop on Systems Biology of Tumor Dormancy meeting, held July 25th to July 28th, 2011. The first annual CCSB workshop brought together biologists, clinicians, mathematicians, and computer scientists to discuss various aspects of tumor dormancy and develop novel mathematical/computational models with the keynote speakers. Specific topics included the angiogenic switch, immune system interactions, cancer stem cells and signaling.

Contents


Fields of interest

Systems Biology; Cancer Research; Biomedicine (general)

Target groups

Professional/practitioner

Type of publication

Contributed volume


Hardcover


Transgenic Cotton

Methods and Protocols

Cotton is the most important textile and cash crop and is widely cultivated in more than 70 countries, including the United States, China, and India. Because its long life cycle and complicated genetic background, it is hard to improve cotton using traditional breeding techniques although it has made much progress in the last several decades. Currently, transgenic techniques have become a powerful tool to improve cotton and transgenic cotton is among the first commercially genetically modified crops. Transgenic Cotton: Methods and Protocols provides a comprehensive collection of methods for creating and monitoring transgenic cotton and its application on agricultural and basic research.

Contents


Fields of interest

Plant Sciences; Agriculture

Target groups

Professional/practitioner

Type of publication

Contributed volume

More on www.springer.com/978-1-62703-211-7

Hardcover


Viruses: Essential Agents of Life

A renaissance of virus research is taking centre stage in biology. Empirical data from the last decade indicate the important roles of viruses, both in the evolution of all life and as symbionts of host organisms. There is increasing evidence that all cellular life is colonized by exogenous and/or endogenous viruses in a non-lytic but persistent lifestyle. Viruses and viral parts form the most numerous genetic matter on this planet.

Features

A renaissance of virus research is taking centre stage in biology. Empirical data from the last decade indicate the important roles of viruses, both in the evolution of all life and as symbionts of host organisms. There is increasing evidence that all cellular life is colonized by exogenous and/or endogenous viruses in a non-lytic but persistent lifestyle. Viruses and viral parts...

Contents


Fields of interest

Life Sciences (general); Virology; Evolutionary Biology; Microbiology; Parasitology; Microbial Genetics and Genomics

Target groups

Professional/practitioner

Type of publication

Contributed volume

More on www.springer.com/978-94-007-4898-9

Hardcover

2012. XII, 427 p. 62 illus., 31 in color. 149,95 € ISBN 978-94-007-4898-9 Usually dispatched within 3 to 5 business days.
**Linguistics**

**Different Kinds of Specificity Across Languages**

This anthology of papers analyzes a range of specificity markers found in natural languages. It reflects the fact that despite intensive research into these markers, the vast differences between the markers across languages and even within single languages have been less acknowledged. Commonly regarded specific indefinites are by no means a homogenous class, and so this volume fills a gap in our understanding of the semantics and pragmatics of indefinites. The papers explore differences and similarities among these specificity markers, concentrating on the following issues: whether specificity is a purely semantic or also a pragmatic notion; whether the contribution of specificity...[...]

**Contents**

Introduction by Cornelia Ebert and Stefan Hinterwimmer . - Specificity Markers and Nominal Exclamatives in French by Fabienne Martin . - The Interpretation of the German Specificity Markers by Tania Ionin . - Certain Presuppositions and some Intermediate Readings, and Vice Versa by Igor Yanovich . - Exceptional Scope: The Case of Spanish by Luis Alonso-Ovalle and Paula Menéndez-Benito . - The Distribution of two Indefinite Articles – The Case of Uzbek by Klaus von...[...]

**Features**

This anthology of papers analyzes a range of specificity markers found in natural languages. It reflects the fact that despite intensive research into these markers, the vast differences between the markers across languages and even within single languages have been less acknowledged. Commonly regarded specific indefinites are by no means a homogenous class, and so this volume fills a gap in our...[...]

**Fields of interest**

Semantics; Philosophy of Language; Comparative Linguistics; Syntax

**Target groups**

Professional/practitioner

**Type of publication**

Contributed volume

**More on**

More on www.springer.com/978-94-007-5309-9

**Hardcover**


99,95 €

ISBN 978-94-007-5309-9

Usually dispatched within 3 to 5 business days.

---

**p53 Protocols**

The second edition of p53 Protocols expands upon the first edition with progress in p53 research since the publication of the first edition. In p53 Protocols, Second Edition expert researchers in the field detail many of the methods that address the challenging questions of the p53 field. These methods include the identification of the target genes and binding partners of gain of function p53 mutants, methods to determine stress response, autophagy or senescence induced by p53, cell cycle analysis, analysis of different phases of DNA replication modified by p53, and generation of pluripotent stem cells. Written in the highly successful Methods in Molecular Biology series format.[...]

**Features**

The second edition of p53 Protocols expands upon the first edition with progress in p53 research since the publication of the first edition. In p53 Protocols, Second Edition expert researchers in the field detail many of the methods that address the challenging questions of the p53 field. These methods include the identification of the target genes and binding partners of gain of function p53.[...]

**Contents**


**Fields of interest**

Protein Science

**Target groups**

Professional/practitioner

**Type of publication**

Contributed volume

**More on**


**Hardcover**

2013. X, 238 p. 51 illus., 33 in color. (Methods in Molecular Biology, Vol. 962)

94,95 €


Usually dispatched within 3 to 5 business days.
Research on Old French: The State of the Art

The present volume presents scholarly study into Old French as it is practiced today, in all of its forms, within a variety of theoretical frameworks, from Optimality Theory to Minimalism to Discourse Analysis. Many of the chapters are corpus-based, reflecting a new trend in the field, as more electronic corpora become available. The chapters contribute to our understanding of both the synchronic state and diachronic evolution, not only of Old French, but of language in general. Its breadth is extensive in that contributors pursue research on a wide variety of topics in Old French focusing on the various subsystems of language. All examples are carefully glossed and the relevant[...]

Features
The present volume presents scholarly study into Old French as it is practiced today, in all of its forms, within a variety of theoretical frameworks, from Optimality Theory to Minimalism to Discourse Analysis. Many of the chapters are corpus-based, reflecting a new trend in the field, as more electronic corpora become available. The chapters contribute to our understanding of both the synchronic[...]

Contents

Fields of interest
Syntax; Romance Languages; Historical Linguistics

Target groups
Research

Type of publication
Contributed volume

More on www.springer.com/978-94-007-4767-8

Hardcover
2013. VIII, 383 p. 3 illus. (Studies in Natural Language and Linguistic Theory, Vol. 88)

129,95 €
ISBN 978-94-007-4767-8

Usually dispatched within 3 to 5 business days.

Materials Science
L. Priester, University of Paris South 11, France

Grain Boundaries
From Theory to Engineering

Grain boundaries are a main feature of crystalline materials. They play a key role in determining the properties of materials, especially when grain size decreases and even more so with the current improvements of processing tools and methods that allow us to control various elements in a polycrystal. This book presents the theoretical basis of the study of grain boundaries and aims to open up new[...]

Features
Grain boundaries are a main feature of crystalline materials. They play a key role in determining the properties of materials, especially when grain size decreases and even more so with the current improvements of processing tools and methods that allow us to control various elements in a polycrystal. This book presents the theoretical basis of the study of grain boundaries and aims to open up new[...]

Contents
From the Contents: Part 1: From intergranular order to disorder. - Introduction: brief history of the intergranular order concept. - Geometrical order. - Mechanical stress order. - Atomic order. - Order or disorder at high temperature. - Grain boundary order and energy. - Grain boundary order or disorder: what conclusion?. - Part 2: From the ideal grain boundary to the real grain boundary. - Defects in the grain boundary structure. - Intergranular segregation. - Precipitation at grain boundaries. - Interactions between dislocations and grain boundaries. - Relaxation of the intergranular stresses. [...]
Progress in Advanced Structural and Functional Materials Design

This book describes clearly various research topics investigated for these 10 years in the Research Center of Advanced Structural and Functional Materials Design in Osaka University, Japan. Every chapter is aimed at understanding most advanced researches in materials science by describing its fundamentals and details as much as possible. Since both general explanations and cutting-edge commentaries are given for each topic in this book, it provides a lot of useful information for ordinary readers as well as materials scientists & engineers who wish to understand the future development in materials science fields of metals, alloys, ceramics, semiconductors etc. In particular, this...[...]

Features
This book describes clearly various research topics investigated for these 10 years in the Research Center of Advanced Structural and Functional Materials Design in Osaka University, Japan. Every chapter is aimed at understanding most advanced researches in materials science by describing its fundamentals and details as much as possible. Since both general explanations and cutting-edge commentaries are given...[...]

Contents

Fields of interest
Structural Materials; Characterization and Evaluation of Materials; Optical and Electronic Materials

Target groups
Research

Type of publication
Contributed volume

More on www.springer.com/978-4-431-54063-2

Hardcover
2013. IX, 287 p. 197 illus., 54 in color.
99,95 €

Usually dispatched within 3 to 5 business days.

Algebraic Geometry and Commutative Algebra

Algebraic geometry is a fascinating branch of mathematics that combines methods from both algebra and geometry. It transcends the limited scope of pure algebra by means of geometric construction principles. Moreover, Grothendieck’s schemes invented in the late 1950s allowed the application of algebraic-geometric methods in fields that formerly seemed to be far away from geometry, like algebraic number theory. The new techniques paved the way to spectacular progress such as the proof of Fermat’s Last Theorem by Wiles and Taylor. The scheme-theoretic approach to algebraic geometry is explained for non-experts. More advanced readers can use the book to broaden their view on the subject...[...]

Features
Algebraic geometry is a fascinating branch of mathematics that combines methods from both algebra and geometry. It transcends the limited scope of pure algebra by means of geometric construction principles. Moreover, Grothendieck’s schemes invented in the late 1950s allowed the application of algebraic-geometric methods in fields that formerly seemed to be far away from geometry (algebraic number theory,...[...]

Contents

Fields of interest
Algebraic Geometry; Commutative Rings and Algebras

Target groups
Graduate

Type of publication
Graduate/advanced undergraduate textbook


Softcover
2013. X, 504 p. (Universitext)
69,95 €

Usually dispatched within 3 to 5 business days.

Algebraic Geometry and Commutative Algebra
An Introduction to the Regularity Theory for Elliptic Systems, Harmonic Maps and Minimal Graphs

This volume deals with the regularity theory for elliptic systems. We may find the origin of such a theory in two of the problems posed by David Hilbert in his celebrated lecture delivered during the International Congress of Mathematicians in 1900 in Paris: 19th problem: Are the solutions to regular problems in the Calculus of Variations always necessarily analytic? 20th problem: does any variational problem have a solution, provided that certain assumptions regarding the given boundary conditions are satisfied, and provided that the notion of a solution is suitably extended? During the last century these two problems have generated a great deal of work, usually referred to as [...] [82]

Contents
1 Harmonic functions - 2 Direct methods - 3 Hilbert space methods - 4 L2-regularity: the Caccioppoli inequality - 5 Schauder estimates - 6 Some real analysis - 7 Lp-theory - 8 The regularity problem in the scalar case - 9 Partial regularity in the vector-valued case - 10 Harmonic maps - 11 A survey of minimal graphs.

Fields of interest
Partial Differential Equations

Target groups
Research

Type of publication
Graduate advanced undergraduate textbook

More on

Softcover
2013. 380 p. (Lecture Notes (Scuola Normale Superiore), Vol. 11)
24,00 €
Online orders shipping within 2-3 days.

Analysis I


Contents
Preface - 1 Grundlegende Notationen und Beweisverfahren - 2 Natürliche Zahlen und vollständige Induktion - 3 Reelle Zahlen und Folgen - 4 Komplexe Zahlen und Reihen - 5 Stetige Funktionen - 6 Differentiale - 7 Integralrechnung in R - 8 Funktionale - 9 Differentialgleichungen - 10 Randwertaufgaben - Index.

Fields of interest
Analysis

Target groups
Lower undergraduate

Type of publication
German textbook

More on www.springer.com/978-3-0348-0348-9

Softcover
2013. VIII, 158 S. (Mathematik Kompakt) 17,75 €
ISBN 978-3-0348-0348-9
Online orders shipping within 2-3 days.

Calculus Without Derivatives

Calculus Without Derivatives expounds the foundations and recent advances in nonsmooth analysis, a powerful compound of mathematical tools that obviates the usual smoothness assumptions. This textbook also provides significant tools and methods towards applications, in particular optimization problems. Whereas most books on this subject focus on a particular theory, this text takes a general approach including all main theories. In order to be self-contained, the book includes three chapters of preliminary material, each of which can be used as an independent course if needed. The first chapter deals with metric properties, variational principles, decrease principles, methods of [...] [130]

Contents

Fields of interest
Analysis; Real Functions; Optimization; Systems Theory; Control; Functional Analysis; Applications of Mathematics

Target groups
Graduate

Type of publication
Graduate advanced undergraduate textbook

More on www.springer.com/978-1-4614-4537-1

Hardcover
2013. XX, 524 p. (Graduate Texts in Mathematics, Vol. 266) 69,95 €
ISBN 978-1-4614-4537-1
Usually dispatched within 3 to 5 business days.
Complex Analysis

In the Spirit of Lipman Bers

This book is intended for a graduate course in complex analysis, where the main focus is the theory of complex-valued functions of a single complex variable. This theory is a prerequisite for the study of many areas of mathematics, including the theory of several finitely and infinitely many complex variables, hyperbolic geometry, two- and three-manifolds, and number theory. Complex analysis has connections and applications to many other subjects in mathematics and to other sciences. Thus this material will also be of interest to computer scientists, physicists, and engineers. The book covers most, if not all, of the material contained in Lipman Bers’s courses on first year complex[...]}

Features

This book is intended for a graduate course in complex analysis, where the main focus is the theory of complex-valued functions of a single complex variable. This theory is a prerequisite for the study of many areas of mathematics, including the theory of several finitely and infinitely many complex variables, hyperbolic geometry, two- and three-manifolds, and number theory. Complex analysis has connections [...]}

Contents


Fields of interest

Functions of a Complex Variable

Target groups

Graduate

Type of publication

Graduate/advanced undergraduate textbook


Hardcover

2013. XX, 306 p. 27 illus. (Graduate Texts in Mathematics, Vol. 245)

59,95 €

ISBN 978-1-4614-7322-1

Usually dispatched within 3 to 5 business days.

Complex Kleinian Groups

This monograph lays down the foundations of the theory of complex Kleinian groups, a newly born area of mathematics whose origin traces back to the work of Riemann, Picard, and many others. Kleinian groups are, classically, discrete groups of conformal automorphisms of the Riemann sphere, and these can be regarded too as being groups of holomorphic automorphisms of the complex projective line CP1. When going into higher dimensions, there is a dichotomy: Should we look at conformal automorphisms of the n-sphere, or should we look at holomorphic automorphisms of higher dimensional complex projective spaces? These two theories are different in higher dimensions. In the first[...]}

Features

This monograph lays down the foundations of the theory of complex Kleinian groups, a “newborn” area of mathematics whose origin can be traced back to the work of Riemann, Poincaré, Picard and many others. Kleinian groups are, classically, discrete groups of conformal automorphisms of the Riemann sphere, and these can themselves be regarded as groups of holomorphic automorphisms of the complex projective[...]}

Contents

Preface.- Introduction.- Acknowledgments.- 1 A glance of the classical theory.- 2 Complex hyperbolic geometry.- 3 Complex Kleinian groups.- 4 Geometry and dynamics of automorphisms of P2C.- 5 Kleinian groups with a control group.- 6 The limit set and dynamics of automorphisms of P2C.- 7 On the dynamics of discrete subgroups of PU(n,1).- 8 Projective orbifolds and dynamics in dimension two.- 9 Complex Schottky groups.- 10 Kleinian groups and twistor theory.- Bibliography.- Index.

Fields of interest

Dynamical Systems and Ergodic Theory; Topological Groups, Lie Groups; Several Complex Variables and Analytic Spaces

Target groups

Graduate

Type of publication

Graduate/advanced undergraduate textbook

More on www.springer.com/978-3-0348-0480-6

Hardcover

2013. XX, 271 p. 7 illus., 3 in color. (Progress in Mathematics, Vol. 303)

84,95 €

ISBN 978-3-0348-0480-6

Usually dispatched within 3 to 5 business days.

Computational Electromagnetics

Computational Electromagnetics is a young and growing discipline, expanding as a result of the steadily increasing demand for software for the design and analysis of electrical devices. This book introduces three of the most popular numerical methods for simulating electromagnetic fields: the finite difference method, the finite element method and the method of moments. In particular it focuses on how these methods are used to obtain valid approximations to the solutions of Maxwell’s equations, using, for example, “staggered grids” and “edge elements.” The main goal of the book is to make the reader aware of different sources of errors in numerical computations, and also to provide[...]}

Features

Computational Electromagnetics is a young and growing discipline, expanding as a result of the steadily increasing demand for software for the design and analysis of electrical devices. This book introduces three of the most popular numerical methods for simulating electromagnetic fields: the finite difference method, the finite element method and the method of moments. In particular it focuses on how these[...]}

Contents


Fields of interest

Computational Science and Engineering; Electrical Engineering; Numerical Analysis; Applications of Mathematics

Target groups

Graduate

Type of publication

Graduate/advanced undergraduate textbook


Hardcover

2013. XIX, 386 p. 87 illus. (Texts in Applied Mathematics, Vol. 51)

59,95 €


Usually dispatched within 3 to 5 business days.
Derivatives of Inner Functions

Inner functions form an important subclass of bounded analytic functions. Since they have unimodular boundary values, they appear in many extremal problems of complex analysis. They have been extensively studied since early last century, and the literature on this topic is vast. Therefore, this book is devoted to a concise study of derivatives of these objects, and confined to treating the integral means of derivatives and presenting a comprehensive list of results on Hardy and Bergman means. The goal is to provide rapid access to the frontiers of research in this field. This monograph will allow researchers to get acquainted with essentials on inner functions, and it is [...]
Foundations of Abstract Analysis

Foundations of Abstract Analysis is the first of a two book series offered as the second (expanded) edition to the previously published text Real Analysis. It is written for a graduate-level course on real analysis and presented in a self-contained way suitable both for classroom use and for self-study. While this book carries the rigor of advanced modern analysis texts, it elaborates the material in much greater details and therefore fills a gap between introductory-level texts (with topics developed in Euclidean spaces) and advanced level texts (exclusively dealing with abstract spaces) making it accessible for a much wider interested audience. To relieve the reader of the [...] Problems and Asymptotic Behavior of Singularly Perturbed Partial Differential Equations

This thesis is devoted to the study of the asymptotic behavior of singularly perturbed partial differential equations and some related free boundary problems arising from these two problems. We study the free boundary problems in the singular limit and give some characterizations, and use this to study the dynamical behavior of competing species when the competition is strong. These results have many applications in physics and biology.

Free Boundary Problems and Asymptotic Behavior of Singularly Perturbed Partial Differential Equations

This thesis is devoted to the study of the asymptotic behavior of singularly perturbed partial differential equations and some related free boundary problems arising from these two problems. We study the free boundary problems in the singular limit and give some characterizations, and use this to study the dynamical behavior of competing species when the competition is strong. These results have many applications in physics and biology.

Features

In Bose-Einstein condensates from physics and competing species system from population dynamics, it is observed that different condensates (or species) tend to be separated. This is known as the phase separation phenomena. These pose a new class of free boundary problems of nonlinear partial differential equations. Besides its great difficulty in mathematics, the study of this problem will help us get a [...]
Geometric Methods in Physics

XXX Workshop, Białowieża, Poland, June 26 to July 2, 2011

The Białowieża workshops on Geometric Methods in Physics are among the most important meetings in the field. Every year some 80 to 100 participants from both mathematics and physics join to discuss new developments and to interchange ideas. This volume contains contributions by selected speakers at the XXX meeting in 2011 as well as additional review articles and shows that the workshop remains at the cutting edge of ongoing research. The 2011 workshop focused on the works of the late Felix A. Berezin (1931–1980) on the occasion of his 80th anniversary as well as on Bogdan Mielnik and Stanislaw Lech Woronowicz on their 75th and 70th birthdays, respectively. The groundbreaking work of [...] 

Features

The Białowieża workshops on Geometric Methods in Physics are among the most important meetings in the field. Every year, some 80 to 100 participants from both mathematics and physics join to discuss new developments and to exchange ideas. This volume includes contributions by selected speakers at the 30th meeting in 2011 as well as additional review articles and shows that the workshop remains at the [...] 

Fields of interest

Global Analysis and Analysis on Manifolds; Quantum Computing; Group Theory and Generalizations 

Type of publication

Proceedings

More on www.springer.com/978-3-642-32277-8 

Graphs, Networks and Algorithms

From the reviews of the previous editions "... The book is a first class textbook and seems to be indispensable for everybody who has to teach combinatorial optimization. It is very helpful for students, teachers, and researchers in this field. The author finds a striking synthesis of nice and interesting mathematical results and practical applications. ... the author pays much attention to the inclusion of well-chosen exercises. The reader does not remain helpless; solutions or at least hints are given in the appendix. Except for some small basic mathematical and algorithmic knowledge the book is self-contained. ..." K. Engel, Mathematical Reviews 2002 The substantial development [...] 

Features

From the reviews of the previous editions "... The book is a first class textbook and seems to be indispensable for everybody who has to teach combinatorial optimization. It is very helpful for students, teachers, and researchers in this area. The author finds a striking synthesis of nice and interesting mathematical results and practical applications. ... the author pays much attention to the [...] 

Contents


Fields of interest

Combinatorics; Optimization; Mathematics of Computing 

Type of publication

Graduate

More on www.springer.com/978-3-642-32277-8
Leitidee Daten und Zufall

Von konkreten Beispielen zur Didaktik der Stochastik

Die Leitidee „Daten und Zufall“ stellt einen der fünf Inhaltsbereiche dar, die für den Mathematikunterricht in der Sekundarstufe I maßgeblich und aufgrund der Bildungsstandards bundesweit verbindlich sind. Wie aber kann man diese Leitidee mit Leben füllen? Wie kann man Statistik und Wahrscheinlichkeitsrechnung zu der einen Leitidee Daten und Zufall für die Schule verknüpfen? Das Buch "Leitidee Daten und Zufall" für die Sekundarstufe I gibt hierauf unterrichtspraktische und didaktisch-methodische Antworten. Es geht von konkreten unterrichtspraktischen Problemstellungen aus und entfaltet an diesen die aktuellen Fragen der Stochastikdidaktik. Über tragfähige Beispiele werden inhalts- und didaktisch-methodisch die entsprechenden Antworten erarbeitet. Die erarbeitete Theorie und [...]
Logic and Structure

Dirk van Dalen’s popular textbook Logic and Structure, now in its fifth edition, provides a comprehensive introduction to the basics of classical and intuitionistic logic, model theory and Gödel’s famous incompleteness theorem. Propositional and predicate logic are presented in an easy-to-read style using Gentzen’s natural deduction. The book proceeds with some basic concepts and facts of model theory: a discussion on compactness, Skolem–Łöwenheim, non-standard models and quantifier elimination. The discussion of classical logic is concluded with a concise exposition of second-order logic. In view of the growing recognition of constructive methods and principles, intuitionistic logic.

Examples

- Propositional Logic
- Predicate Logic
- Completeness and Applications
- Second Order Logic
- Intuitionistic Logic
- Normalization
- Gödel’s theorem

Fields of interest

Mathematical Logic and Foundations

Target groups

Graduate

Type of publication

Graduate/advanced undergraduate textbook

More on www.springer.com/978-1-4471-4557-8

Softcover

2013. X, 263 p. 27 illus. (Universitext)
49.95 €
ISBN 978-1-4471-4557-8

Usually dispatched within 3 to 5 business days.

Magic Graphs

Magic squares are among the more popular mathematical recreations. Over the last 50 years, many generalizations of “magic” ideas have been applied to graphs. Recently there has been a resurgence of interest in “magic labelings” due to a number of results that have applications to the problem of decomposing graphs into trees. Key features of this second edition include:
- a new chapter on magic labeling of directed graphs
- applications of theorems from graph theory and interesting counting arguments
- new research problems and exercises covering a range of difficulties
- a fully updated bibliography and index

This concise, self-contained exposition is unique.

Features

- Propositional Logic
- Predicate Logic
- Completeness and Applications
- Second Order Logic
- Intuitionistic Logic
- Normalization
- Gödel’s theorem

Contents

Preface
- List of Figures
- Preliminaries
- Edge-Magic Total Labelings
- Vertex-Magic Total Labelings
- Totally Magic Labelings
- Magic Type Labeling of Digraphs
- Notes on the Research Problems
- References
- Bibliography
- Answers to Selected Exercises

Fields of interest

Combinatorics; Discrete Mathematics in Computer Science; Applications of Mathematics

Target groups

Graduate

Type of publication

Graduate/advanced undergraduate textbook

More on www.springer.com/978-0-8176-8390-0

Hardcover

2013. XVI, 186 p. 34 illus.
49.95 €
ISBN 978-0-8176-8390-0

Usually dispatched within 3 to 5 business days.

Mathematical Methodologies in Pattern Recognition and Machine Learning

Contributions from the International Conference on Pattern Recognition and Applications and Methods, 2012

This volume features key contributions from the International Conference on Pattern Recognition Applications and Methods, (ICPRAM 2012,) held in Vilamoura, Algarve, Portugal from February 6th-8th, 2012. The conference provided a major point of collaboration between researchers, engineers and practitioners in the areas of Pattern Recognition, both from theoretical and applied perspectives, with a focus on mathematical methodologies. Contributions describe applications of pattern recognition techniques to real-world problems, interdisciplinary research, and experimental and theoretical studies which yield new insights that provide key advances in the field. This book will be suitable.

Features

- Contributions from the International Conference on Pattern Recognition Applications and Methods, (ICPRAM 2012,) held in Vilamoura, Algarve, Portugal from February 6th-8th, 2012. The conference provided a major point of collaboration between researchers, engineers and practitioners in the areas of Pattern Recognition, both from theoretical and applied perspectives, with a focus on.

Contents

- On order equivalences between distance and similarity measures on sequences and trees
- Scalable Corpus Annotation by Graph Construction and Label Propagation
- Computing the reeb graph for triangle meshes with active contours
- Efficient Computation of Voronoi Neighbors based on Polytope search in Pattern Recognition
- Estimation of the common oscillation for Phase Locked Matrix Factorization
- ASSET: Approximate Stochastic Subgradient Estimation Training for Support Vector Machines
- Pitch-sensitive Components emerge from Hierarchical Sparse Coding of Natural Sounds

Fields of interest

- Systems Theory
- Control
- Optimization
- Mathematical Applications in Computer Science
- Pattern Recognition

Target groups

Research

Type of publication

Proceedings

More on www.springer.com/978-1-4614-5075-7

Hardcover

2013. VIII, 194 p. 58 illus., 40 in color

Usually dispatched within 3 to 5 business days.

Mathematics 137
Mathematical Tools for the Study of the Incompressible Navier-Stokes Equations and Related Models

The objective of this self-contained book is two-fold. First, the reader is introduced to the modelling and mathematical analysis used in fluid mechanics, especially concerning the Navier-Stokes equations which is the basic model for the flow of incompressible viscous fluids. Authors introduce mathematical tools so that the reader is able to use them for studying many other kinds of partial differential equations, in particular nonlinear evolution problems. The background needed are basic results in calculus, integration, and functional analysis. Some sections certainly contain more advanced topics than others. Nevertheless, the authors’ aim is that graduate or PhD students, as well [...] 

Contents
Preface.- Contents.- The equations of fluid mechanics.- Analysis tools.- Sobolev spaces.- Steady Stokes equations.- Navier-Stokes equations for homogeneous fluids.- Nonhomogeneous fluids.- Boundary conditions modeling.- Classic differential operators.- Thermodynamics supplement.- References.- Index.-

Fields of interest
Partial Differential Equations; Engineering Fluid Dynamics; Fluid- and Aerodynamics

Target groups
Graduate

Type of publication
Monograph

More on www.springer.com/978-3-642-31207-6

Hardcover
109,95 €
ISBN 978-3-642-31207-6

Usually dispatched within 3 to 5 business days.

Modelling in Computational Biology and Biomedicine

A Multidisciplinary Endeavor

Computational biology, mathematical biology, biology and biomedicine are currently undergoing spectacular progresses due to a synergy between technological advances and inputs from physics, chemistry, mathematics, statistics and computer science. The goal of this book is to evidence this synergy by describing selected developments in the following fields: bioinformatics, biomedicine and neuroscience. This work is unique in two respects - first, by the variety and scales of systems studied and second, by its presentation: Each chapter provides the biological or medical context, follows up with mathematical or algorithmic developments triggered by a specific problem and concludes with[...]

Features
Computational biology, mathematical biology, biology and biomedicine are currently undergoing spectacular progresses due to a synergy between technological advances and inputs from physics, chemistry, mathematics, statistics and computer science. The goal of this book is to evidence this synergy by describing selected developments in the following fields: bioinformatics, biomedicine and neuroscience. [...]

Contents

Fields of interest
Mathematical and Computational Biology; Applications of Mathematics; Computational Biology / Bioinformatics

Target groups
Research

Type of publication
Contributed volume

More on www.springer.com/978-3-642-31207-6

Hardcover
2013. XX, 315 p. 85 illus., 65 in color.
84,95 €
ISBN 978-3-642-31207-6

Usually dispatched within 3 to 5 business days.

Modular Representation Theory of Finite Groups

Representation theory studies maps from groups onto general linear group of a finite-dimensional vector space. For finite groups the theory comes in two distinct flavours. In the ‘semisimple case’ (for example over the field of complex numbers) one can use character theory to completely understand the representations. By far is not sufficient when the characteristic of the field divides the order of the group. Modular Representation Theory of finite groups comprises this second situation. Many additional tools are needed for this case. To mention some, there is the systematic use of Grothendieck groups leading to the Cartan matrix and the decomposition matrix of the group as[...]

Features
Representation theory studies maps from groups into the general linear group of a finite-dimensional vector space. For finite groups the theory comes in two distinct flavours. In the ‘semisimple case’ (for example over the field of complex numbers) one can use character theory to completely understand the representations. This by far is not sufficient when the characteristic of the field divides the order[...]

Contents
Prerequisites in module theory.- The Cartan/Brauer triangle.- The Brauer character.- Green’s theory of indecomposable modules.- Blocks.

Fields of interest
Associative Rings and Algebras; Group Theory and Generalizations

Target groups
Graduate

Type of publication
Graduate/advanced undergraduate textbook

More on www.springer.com/978-1-4471-4831-9

Softcover
2013. VIII, 178 p.
49,95 €

Usually dispatched within 3 to 5 business days.
Multidimensional Data Visualization

Methods and Applications

This book highlights recent developments in multidimensional data visualization, presenting both new methods and modifications of classic techniques. Throughout the book, various applications of multidimensional data visualization are presented including its uses in social sciences (economy, education, politics, psychology), environment, and medicine (ophthalmology, sport medicine, pharmacology, sleep medicine). The book provides recent research results in optimization-based visualization. Evolutionary algorithms and a two-level optimization method, based on combinatorial optimization and quadratic programming, are analyzed in detail. The performance of these algorithms and [...] Features

The goal of this book is to present a variety of methods used in multidimensional data visualization. The emphasis is placed on new research results and trends in this field, including optimization, artificial neural networks, combinations of algorithms, parallel computing, different proximity measures, non-linear manifold learning, and more. Many of the applications presented allow us to discover the [...] Contents


Fields of interest

Optimization; Simulation and Modeling; Visualization; Artificial Intelligence (incl. Robotics)

Target groups

Research

Type of publication

Monograph

More on www.springer.com/978-1-4419-0235-1

Hardcover

2013. XII, 250 p. 122 illus., 38 in color. (Springer Optimization and Its Applications, Vol. 75)

84,95 €

ISBN 978-1-4419-0235-1

Usually dispatched within 3 to 5 business days.

Optimization Theory, Decision Making, and Operations Research Applications

Proceedings of the 1st International Symposium and 10th Balkan Conference on Operational Research

These proceedings consist of 30 selected research papers based on results presented at the 10th Balkan Conference & 1st International Symposium on Operational Research (BALCOR 2011) held in Thessaloniki, Greece, September 22-24, 2011. BALCOR is an established biennial conference attended by a large number of faculty, researchers and students from the Balkan countries but also from other European and Mediterranean countries as well. Over the past decade, the BALCOR conference has facilitated the exchange of scientific and technical information on the subject of Operations Research and related fields such as Mathematical Programming, Game Theory, Multiple Criteria Decision Analysis, [...] Features

Over the past two decades, the Balkan Conference on Operational Research (BALCOR) has facilitated the exchange of scientific and technical information on the subject of Operations Research and related fields such as Mathematical Programming, Game Theory, Multiple Criteria Decision Analysis, Information Systems, Data Mining, and more, in order to promote international scientific cooperation. The [...] Fields of interest

Optimization; Operations Research, Mathematical Programming

Target groups

Research

Type of publication

Proceedings

More on www.springer.com/978-1-4614-5133-4

Hardcover


119,95 €

ISBN 978-1-4614-5133-4

Usually dispatched within 3 to 5 business days.

Optimization, Simulation, and Control

Optimization, simulation and control play an increasingly important role in science and industry. Because of their numerous applications in various disciplines, research in these areas is accelerating at a rapid pace. This volume brings together the latest developments in these areas of research as well as presents applications of these results to a wide range of real-world problems. The book is composed of invited contributions by experts from around the world who work to develop and apply new optimization, simulation and control techniques either at a theoretical level or in practice. Some key topics presented include: equilibrium problems, multi-objective optimization, variational [...] Features

Optimization, simulation and control are very powerful tools in engineering and mathematics, and play an increasingly important role. Because of their various real-world applications in industries such as finance, economics, and telecommunications, research in these fields is accelerating at a rapid pace, and there have been major algorithmic and theoretical developments in these fields in the last decade. [...] Contents


Optimization; Systems Theory, Control; Mathematical Modeling and Industrial Mathematics

Target groups

Research

Type of publication

Contributed volume


Hardcover

2013. XII, 345 p. 75 illus., 25 in color. (Springer Optimization and Its Applications, Vol. 76)

94,95 €


Usually dispatched within 3 to 5 business days.


**Partial Differential Equations**

This book offers an ideal graduate-level introduction to the theory of partial differential equations. The first part of the book describes the basic mathematical problems and structures associated with elliptic, parabolic, and hyperbolic partial differential equations, and explores the connections between these fundamental types. Aspects of Brownian motion or pattern formation processes are also presented. The second part focuses on existence schemes and develops estimates for solutions of elliptic equations, such as Sobolev space theory, weak and strong solutions, Schauder estimates, and Moser iteration. In particular, the reader will learn the basic techniques underlying current [...] 

**Features**

This book offers an ideal graduate-level introduction to the theory of partial differential equations. The first part of the book describes the basic mathematical problems and structures associated with elliptic, parabolic, and hyperbolic partial differential equations, and explores the connections between these fundamental types. Aspects of Brownian motion or pattern formation processes are also [...] 

**Contents**


**Fields of interest**

Partial Differential Equations; Theoretical, Mathematical and Computational Physics

**Target groups**

Graduate

**Type of publication**

Graduate/advanced undergraduate textbook


**Hardcover**

2013, XIII, 410 p. 10 illus. (Graduate Texts in Mathematics, Vol. 214)

59,95 €


Usually dispatched within 3 to 5 business days.

---

**Plasticity**

Mathematical Theory and Numerical Analysis

This book focuses on the theoretical aspects of small strain theory of elastoplasticity with hardening assumptions. It provides a comprehensive and unified treatment of the mathematical theory and numerical analysis. It is divided into three parts, with the first part providing a detailed introduction to plasticity, the second part covering the mathematical analysis of the elasticity problem, and the third part devoted to error analysis of various semi-discrete and fully discrete approximations for variational formulations of the elastoplasticity. This revised and expanded edition includes material on single-crystal and strain gradient plasticity. In addition, the entire book has [...] 

**Features**

This book focuses on the theoretical aspects of small strain theory of elastoplasticity with hardening assumptions. It provides a comprehensive and unified treatment of the mathematical theory and numerical analysis. It is divided into three parts, with the first part providing a detailed introduction to plasticity, the second part covering the mathematical analysis of the elasticity problem, and the third part](...) 

**Contents**


**Fields of interest**

Numerical Analysis; Theoretical and Applied Mechanics; Continuum Mechanics and Mechanics of Materials

**Target groups**

Graduate

**Type of publication**

Monograph


**Hardcover**

2013, XV, 421 p. 41 illus. (Interdisciplinary Applied Mathematics, Vol. 9)

94,95 €


Usually dispatched within 3 to 5 business days.

---

**Recent Trends in Lorentzian Geometry**

Traditionally, Lorentzian geometry has been used as a necessary tool to understand general relativity, as well as to explore new genuine geometric behaviors, far from classical Riemannian techniques. Recent progress has attracted a renewed interest in this theory for many researchers: long-standing global open problems have been solved, outstanding Lorentzian spaces and groups have been classified, new applications to mathematical relativity and high energy physics have been found, and further connections with other geometries have been developed. Samples of these fresh trends are presented in this volume, based on contributions from the VI International Meeting on Lorentzian [...] 

**Features**

Traditionally, Lorentzian geometry has been used as a necessary tool to understand general relativity, as well as to explore new genuine geometric behaviors, far from classical Riemannian techniques. Recent progress has attracted a renewed interest in this theory for many researchers: long-standing global open problems have been solved, outstanding Lorentzian spaces and groups have been classified, new [...] 

**Contents**


**Fields of interest**

Convex and Discrete Geometry; Hyperbolic Geometry; Differential Geometry

**Target groups**

Research

**Type of publication**

Proceedings


**Hardcover**


119,95 €


Usually dispatched within 3 to 5 business days.
Robust Data Mining

Data uncertainty is a concept closely related with most real life applications that involve data collection and interpretation. Examples can be found in data acquired with biomedical instruments or other experimental techniques. Integration of robust optimization in the existing data mining techniques aim to create new algorithms resilient to error and noise. This work encapsulates all the latest applications of robust optimization in data mining. This brief contains an overview of the rapidly growing field of robust data mining research field and presents the most well known machine learning algorithms, their robust counterparts and algorithms for attacking these [...] 

Features

Data uncertainty is a concept closely related with most real life applications that involve data collection and interpretation. Examples can be found in data acquired with biomedical instruments or other experimental techniques. Integration of robust optimization in the existing data mining techniques aim to create new algorithms resilient to error and noise. This work encapsulates all the latest [...] 

Contents


Fields of interest

Optimization; Data Mining and Knowledge Discovery; Software Engineering / Programming and Operating Systems

Target groups

Research

Type of publication

Brief

More on www.springer.com/978-1-4419-9877-4

Softcover


Usually dispatched within 3 to 5 business days.

Stochastic Calculus with Infinitesimals

Stochastic analysis is not only a thriving area of pure mathematics with intriguing connections to partial differential equations and differential geometry. It also has numerous applications in the natural and social sciences (for instance in financial mathematics or theoretical quantum mechanics) and therefore appears in physics and economics curricula as well. However, existing approaches to stochastic analysis either presuppose various concepts from measure theory and functional analysis or lack full mathematical rigour. This short book proposes to solve the dilemma: By adopting E. Nelson’s ‘radically elementary’ theory of continuous-time stochastic processes, it is based on [...] 

Features

This work encapsulates all the latest applications of robust optimization in data mining. This brief contains an overview of the rapidly growing field of robust data mining research field and presents the most well known machine learning algorithms, their robust counterparts and algorithms for attacking these [...] 

Contents


Fields of interest

Optimization; Data Mining and Knowledge Discovery; Software Engineering / Programming and Operating Systems

Target groups

Research

Type of publication

Brief

More on www.springer.com/978-1-4419-9877-4

Softcover


Usually dispatched within 3 to 5 business days.

The Implicit Function Theorem

History, Theory, and Applications

The implicit function theorem is part of the bedrock of mathematical analysis and geometry. Finding its genesis in eighteenth century studies of real analytic functions and mechanics, the implicit and inverse function theorems have now blossomed into powerful tools in the theories of partial differential equations, differential geometry, and geometric analysis. There are many different forms of the implicit function theorem, including (i) the classical formulation for $C^k$ functions, (ii) formulations in other function spaces, (iii) formulations for non-smooth functions, (iv) formulations for functions with degenerate Jacobian. Particularly powerful implicit function [...] 

Features

This work encapsulates all the latest applications of robust optimization in data mining. This brief contains an overview of the rapidly growing field of robust data mining research field and presents the most well known machine learning algorithms, their robust counterparts and algorithms for attacking these [...] 

Contents


Fields of interest

Analysis; Partial Differential Equations; Differential Geometry; History of Mathematics

Target groups

Research

Type of publication

Reference work

More on www.springer.com/978-0-8176-4285-3

Softcover


Usually dispatched within 3 to 5 business days.
The Self-Avoiding Walk

The self-avoiding walk is a mathematical model that has important applications in statistical mechanics and polymer science. In spite of its simple definition—a path on a lattice that does not visit the same site more than once—it is difficult to analyze mathematically. The Self-Avoiding Walk provides the first unified account of the known rigorous results for the self-avoiding walk, with particular emphasis on its critical behavior. Its goals are to give an account of the current mathematical understanding of the model, to indicate some of the applications of the concept in physics and in chemistry, and to give an introduction to some of the nonrigorous methods used in those fields.

Features

The self-avoiding walk is a mathematical model that has important applications in statistical mechanics and polymer science. In spite of its simple definition—a path on a lattice that does not visit the same site more than once—it is difficult to analyze mathematically. The Self-Avoiding Walk provides the first unified account of the known rigorous results for the self-avoiding walk, with particular emphasis on its critical behavior. Its goals are to give an account of the current mathematical understanding of the model, to indicate some of the applications of the concept in physics and in chemistry, and to give an introduction to some of the nonrigorous methods used in those fields.

Third International Handbook of Mathematics Education

The four sections in this Third International Handbook of Mathematics Education are concerned with: (a) social, political and cultural dimensions in mathematics education; (b) mathematics education as a field of study; (c) technology in the mathematics curriculum; and (d) international perspectives on mathematics education. These themes are taken up by 84 internationally recognized scholars, distributed over 26 different nationalities. Each of the sections is structured around the basis past, present and future aspects. The first chapter in a section provides historical perspectives ("How did we get to where we are now?"); the middle chapters in a section analyze present-day key issues and themes ("Where are we now, and what...")

Features

This entirely new Third International Handbook of Mathematics Education comprises 31 chapters which have been written by a total of 84 authors representing 26 nations, each a recognized expert in the field. Comprised of four sections: Social, Political and Cultural Dimensions in Mathematics Education; Mathematics Education as a Field of Study; Technology in the Mathematics. [...]
**ADHD in Adults**

A Practical Guide to Evaluation and Management

ADHD in Adults: A Practical Guide to Evaluation and Management is the product of a unique collaboration of international specialists. This volume offers easy-to-read guidance, and includes checklists, rating scales and treatment planning tools. It was designed for a broad audience of caregivers working in diverse settings, including psychiatrists, social workers, primary care physicians, nurse specialists and psychologists. The authors are highly acclaimed clinicians, investigators and educators. They offer step-by-step guidance for implementation of best practices, drawing from clinical research and their experience treating thousands of patients. They cover diagnosis, treatment[...]  

**Features**

ADHD in Adults: A Practical Guide to Evaluation and Management is the product of a unique collaboration of international specialists. This volume offers easy-to-read guidance, and includes checklists, rating scales and treatment planning tools. It was designed for a broad audience of caregivers working in diverse settings, including psychiatrists, social workers, primary care physicians, nurse[...]  

**Contents**

ADHD in adults: a clinical concern.- Clinical Assessment of ADHD in Adults.- Treatment Planning for Adults with ADHD.- Neuropsychological Assessment of ADHD and Executive Function Deficits in Adults.- Stimulant Pharmacotherapy for Adults with ADHD.- Non-Stimulant Drug Treatments for Adults with ADHD.- Psychosocial Treatment for Adult ADHD.- Managing ADHD in Adults with Common Comorbidities.- Managing ADHD in Adolescence and Young Adulthood: Emerging comorbidities, and tailored treatment.- ADHD in Families.- Clinical Dilemmas in the Assessment and Management of ADHD in Adults.  

**Fields of interest**

Sports Medicine; Surgical Orthopedics; Orthopedics; Rehabilitation; Physiotherapy  

**Target groups**

Professional/practitioner  

**Type of publication**

Contributed volume  


**Hardcover**

2013. XVI, 371 p. 122 illus., 110 in color. 139,95 €  

ISBN 978-1-4471-4362-8  

Online orders shipping within 2-3 days.  

---  

**Adventure and Extreme Sports Injuries**

Epidemiology, Treatment, Rehabilitation and Prevention

Adventure and extreme sports are increasing in popularity and it is not surprising that commercial adventure tourism and the accompanying lifestyle and fashion, have become increasingly important to world economy. These unique sports involve not only major physical endurance and mental challenges but interaction and bonding with nature. They also tend to attract and excite audiences, both at the event and in the media. They are exciting to watch and redraw the boundaries of human achievement with the accompanying risks of injury and death. Adventure sports are usually performed in beautiful, exciting and remote locations or in extreme environments far away from medical assistance[...]  

**Features**

Adventure and extreme sports have developed significantly and gained enormous popularity over the past two decades, and are now performed by adventurous elite athletes as well as the recreational adventure sportsman. These sports, by definition, involve element of increased risk, and are usually performed in beautiful, exciting and remote locations or in extreme environments, far away from medical[...]  

**Fields of interest**

Rehabilitation; Physiotherapy  

**Target groups**

Professional/practitioner  

**Type of publication**

Contributed volume  


**Hardcover**

2013. XVI, 371 p. 122 illus., 110 in color. 139,95 €  

ISBN 978-1-4471-4362-8  

Online orders shipping within 2-3 days.  

---  

**ADHD in Adults**

A Practical Guide to Evaluation and Management

ADHD in Adults: A Practical Guide to Evaluation and Management is the product of a unique collaboration of international specialists. This volume offers easy-to-read guidance, and includes checklists, rating scales and treatment planning tools. It was designed for a broad audience of caregivers working in diverse settings, including psychiatrists, social workers, primary care physicians, nurse specialists and psychologists. The authors are highly acclaimed clinicians, investigators and educators. They offer step-by-step guidance for implementation of best practices, drawing from clinical research and their experience treating thousands of patients. They cover diagnosis, treatment[...]  

**Features**

ADHD in Adults: A Practical Guide to Evaluation and Management is the product of a unique collaboration of international specialists. This volume offers easy-to-read guidance, and includes checklists, rating scales and treatment planning tools. It was designed for a broad audience of caregivers working in diverse settings, including psychiatrists, social workers, primary care physicians, nurse[...]  

**Contents**

ADHD in adults: a clinical concern.- Clinical Assessment of ADHD in Adults.- Treatment Planning for Adults with ADHD.- Neuropsychological Assessment of ADHD and Executive Function Deficits in Adults.- Stimulant Pharmacotherapy for Adults with ADHD.- Non-Stimulant Drug Treatments for Adults with ADHD.- Psychosocial Treatment for Adult ADHD.- Managing ADHD in Adults with Common Comorbidities.- Managing ADHD in Adolescence and Young Adulthood: Emerging comorbidities, and tailored treatment.- ADHD in Families.- Clinical Dilemmas in the Assessment and Management of ADHD in Adults.  

**Fields of interest**

Oncology; Cancer Research; Health Promotion and phocytic Leukemia/Small Lymphocytic Lymphoma.-  

**Target groups**

Professional/practitioner  

**Type of publication**

Contributed volume  


**Hardcover**

2013. XII, 346 p. 124 illus. in color. 149,95 €  


Usually dispatched within 3 to 5 business days.
### Advice to the Healer

**On the Art of Caring**

This book introduces the origins of important teachings that form the basis of medicine and related healing professions. Reinforcing the humanistic side of patient care, this book replicates the tips, anecdotes and aphorisms often related by mentors and educators to medical students, residents, and young physicians. This book provides numerous examples of best practices in the art of medicine, profiles of great healers throughout history and around the world, and stories sure to inspire any practicing healer, whether they are new to the calling or a seasoned veteran.

**Features**
- Clinicians—physicians, nurses, dentists, pharmacists, social workers, psychologists, physician assistants, nurse practitioners, and others—share the unique responsibility of patient care and the limitless fulfillment this calling can provide. The healing professions have an ancient and venerable tradition of service, honor, and humanism that is often communicated from teacher to student in anecdotes. [...]

**Contents**

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

**Target groups**
- Professional/practitioner

**Type of publication**
- Monograph

**More on** [www.springer.com/978-1-4614-5169-3](http://www.springer.com/978-1-4614-5169-3)

**Softcover**
- 2013. XVI, 181 p. 19 illus.
- 29,95 €
- Usually dispatched within 3 to 5 business days.

### Androgen Deficiency and Testosterone Replacement

**Current Controversies and Strategies**

Androgen Deficiency and Testosterone Replacement: Current Controversies and Strategies explores the difficulties around the diagnosis and treatment of androgen deficiency. The text examines the available evidence concerning the diagnosis and treatment of men with low testosterone. It also examines controversies in the identification and management of these men. While the information contained within will be of use to those who specialize in androgen deficiency and sexual medicine, the scope of the book will serve as a source of basic information about testosterone replacement and as a source of reasoned analysis of the controversies surrounding testosterone replacement in the aging.[...]

**Features**
- Androgen Deficiency and Testosterone Replacement: Current Controversies and Strategies explores the difficulties around the diagnosis and treatment of androgen deficiency. The text examines the available evidence concerning the diagnosis and treatment of men with low testosterone. It also examines controversies in the identification and management of these men. While the information contained within [...]

**Contents**
- The Institute of Medicine White Paper on Testosterone: Current Perspective -The Laboratory Diagnosis of Testosterone Deficiency -The Clinical Diagnosis of Androgen Deficiency -The Use of Patient Reported Outcome Questionnaires in the Diagnosis of Androgen Deficiency -Testosterone, and its association with metabolic and cardiovascular disease -The Role of Androgens in Prostate Cancer -Androgen Deficiency in the Adolescent Male -Effects of Androgen Deficiency and Replacement on Male Fertility -HIV and Testosterone in Men -Treatment Options for Testosterone Replacement Therapy [...]

**Fields of interest**
- Urology / Andrology; Medicine (general)

**Target groups**
- Professional/practitioner

**Type of publication**
- Monograph

**More on** [www.springer.com/978-1-4614-5169-3](http://www.springer.com/978-1-4614-5169-3)

**Hardcover**
- 2013. X, 154 p. 17 illus., 10 in color.
- 139,95 €
- Usually dispatched within 3 to 5 business days.

### Ankylosing spondylitis and Klebsiella

Ankylosing spondylitis and Klebsiella is a comprehensive and informative text on the cause of Ankylosing spondylitis. Ankylosing spondylitis (AS) is a condition which affects 20 million people worldwide and is likely caused or initiated by a bowel infection from Klebsiella bacteria. When a patient is infected by Klebsiella bacteria, his or her immune system will make antibodies against all the antigens or molecules found in the microbe. Because some of the bacterial antigens resemble self tissues, the anti-bacterial antibodies will attack not only the bacteria but also the self tissues such as the joints and the cells having the same HLA molecules, which is how the disease AS starts. [...]

**Features**
- Ankylosing spondylitis and Klebsiella is a comprehensive and informative text on the cause of Ankylosing spondylitis. Ankylosing spondylitis (AS) is a condition which affects 20 million people worldwide and is likely caused or initiated by a bowel infection from Klebsiella bacteria. When a patient is infected by Klebsiella bacteria, his or her immune system will make antibodies against all the antigens or molecules found in the microbe. Because some of the bacterial antigens resemble self tissues, the anti-bacterial antibodies will attack not only the bacteria but also the self tissues such as the joints and the cells having the same HLA molecules, which is how the disease AS starts. [...]

**Contents**
- Ankylosing spondylitis as a scientific problem -History of the origin of ankylosing spondylitis -The discovery of HLA-B27 in ankylosing spondylitis and related disorders -Molecular mimicry between HLA-B27 and Klebsiella bacteria investigated by using rabbit antisera -Molecular mimicry between HLA-B27 and Klebsiella bacteria investigated by using human tissue typing sera -Muscle changes in ankylosing spondylitis -Raised serum IgA is present in ankylosing spondylitis patients -Facial cultures in ankylosing spondylitis and uveitis -Biochemical parameters and Klebsiella in [...]

**Fields of interest**
- Rheumatology

**Target groups**
- Professional/practitioner

**Type of publication**
- Monograph

**More on** [www.springer.com/978-1-4471-4299-7](http://www.springer.com/978-1-4471-4299-7)

**Hardcover**
- 2013. XX, 256 p. 89 illus., 86 in color.
- 139,95 €
- Usually dispatched within 3 to 5 business days.
*Arthroscopic Management of Ulnar Pain*

Compared with traditional surgical procedures, wrist arthroscopy reduces the risk to patients and hastens recovery. Nevertheless, in many ways wrist arthroscopy is still in its infancy, and its indications continue to evolve. This book is devoted to the optimal use of arthroscopy in the diagnosis and treatment of wrist pathologies that give rise to ulnar pain. The correct procedure in a wide variety of settings is carefully explained in step-by-step fashion with the help of numerous detailed illustrations. Particular care is taken to cover all the important technical issues. The authors are without exception internationally acknowledged experts who draw on their considerable [...] Features

Compared with traditional surgical procedures, wrist arthroscopy reduces the risk to patients and hastens recovery. Nevertheless, in many ways wrist arthroscopy is still in its infancy, and its indications continue to evolve. This book is devoted to the optimal use of arthroscopy in the diagnosis and treatment of wrist pathologies that give rise to ulnar pain. The correct procedure in a wide variety of [...] Contents


Surgical Orthopedics

**Atlas of Lymphoscintigraphy and Sentinel Node Mapping**

A Pictorial Case-Based Approach

Although lymphoscintigraphy was originally introduced into clinical routine for identification of the cause of peripheral edema, more recently it has been widely applied for radioguided biopsy of the sentinel lymph node in patients with solid cancers. The procedure is now considered crucial for adequate planning of oncologic surgery in a growing number of cancers. This atlas presents a collection of richly illustrated teaching cases that demonstrate the clinical relevance and impact of lymphoscintigraphy in different pathologic conditions. After introductory chapters on the anatomy, physiology, and pathophysicsology of lymphatic circulation, the role of lymphoscintigraphy [...] Features

Lymphoscintigraphy is now widely applied for radioguided biopsy of the sentinel lymph node in patients with solid cancers and is considered crucial for adequate planning of oncologic surgery in a growing number of cancers. This atlas presents a collection of richly illustrated teaching cases that demonstrate the clinical relevance and impact of lymphoscintigraphy in different pathologic conditions. The [...] Contents

Anatomy and physiology of lymphatic circulation. - Pathophysiology of lymphatic circulation in different disease conditions. - Methodological aspects of lymphoscintigraphy: radiopharmaceuticals and instrumentation. - Lymphoscintigraphy for the differential diagnosis of peripheral edemas. - Lymphoscintigraphy for the characterization of intracavitary lymph effusions. - The sentinel lymph node concept in oncologic surgery. - General concepts on radioguided sentinel lymph node biopsy: preoperative imaging, intraoperative gamma-probe guidance, intraoperative imaging, multimodality imaging. [...] Fields of interest

Nuclear Medicine; Minimally Invasive Surgery; Head and Neck Surgery; Surgical Oncology; Angiology

**Basiswissen Medizin des Alterns und des alten Menschen**


Mit dem Alter kommen die Gebrechen ... Doch was versteht man eigentlich unter einem Gebrechen? Was sind die typischen Alterssyndrome? Welche Komorbiditäten können auftreten? Alte Menschen benötigen eine spezielle medizinische Versorgung, bei der die meisten Kenntnisse in mehreren Fachgebieten gefragt sind. Das Lehrbuch bietet einen praxisnahen Einblick in die Medizin des Alterns und des [...] Contents


Geriatrics / Gerontology; Medicine (general); Internal Medicine

**Target groups**

Upper undergraduate

**Type of publication**

German textbook

More on www.springer.com/978-3-642-28904-0

**Softcover**

2013. XV, 304 S. 49 Abb. in Farbe. (Springer-Lehrbuch)

21,45 €

ISBN 978-3-642-28904-0

Online orders shipping within 2-3 days.
Bioactive Dietary Factors and Plant Extracts in Dermatology

The role of Bioactive Dietary Factors and Plant Extracts in Preventive Dermatology provides current and concise scientific appraisal of the efficacy of foods, nutrients, herbs, and dietary supplements in preventing dermal damage and cancer as well as improving skin health. This important new volume reviews and presents new hypotheses and conclusions on the effects of different bioactive foods and their components derived particularly from vegetables, fruits, and herbs. Primary emphasis is on treatment and prevention of dermal damage focusing on skin cancers with significant health care costs and mortality. Bioactive Dietary Factors and Plant Extracts in Preventive Dermatology brings...

Features

- The role of Bioactive Dietary Factors and Plant Extracts in Preventive Dermatology provides current and concise scientific appraisal of the efficacy of foods, nutrients, herbs, and dietary supplements in preventing dermal damage and cancer as well as improving skin health.
- This important new volume reviews and presents new hypotheses and conclusions on the effects of different bioactive foods and their components derived particularly from vegetables, fruits, and herbs.
- Primary emphasis is on treatment and prevention of dermal damage focusing on skin cancers with significant health care costs and mortality.
- Bioactive Dietary Factors and Plant Extracts in Preventive Dermatology brings...

Contents


Fields of interest

Clinical Nutrition; Nutrition; Public Health; General Practice / Family Medicine; Food Science

Target groups

Professional/practitioner

Type of publication

Contributed volume

More on www.springer.com/978-1-62703-166-0

Hardcover

2013. XXV, 544 p. 89 illus., 38 in color. (Nutrition and Health)
169,95 €
ISBN 978-1-62703-166-0

Usually dispatched within 3 to 5 business days.
B. Buka, New York, NY, USA; A. Ulasz, New York, NY, USA; K. Krishnamurthy, New York, NY, USA (Eds.)

**Buka’s Emergencies in Dermatology**

The term “dermatologic emergency” is rarely used, and a dermatologist is typically not the first physician called when a patient presents to the emergency department. However, largely under-recognized dermatoses can be life-threatening if not diagnosed and treated in a timely fashion. Buka’s Emergencies in Dermatology addresses the need for a concise, portable reference that can be used by emergency medicine and dermatology physicians and residents alike. This book, heavily illustrated with color images, proves to be especially critical if a community-based hospital does not have a dermatology department and the responsibility for initial diagnosis falls to the emergency room or [...] 

**Features**

- The term “dermatologic emergency” is rarely used, and a dermatologist is typically not the first physician called when a patient presents to the emergency department. However, largely under-recognized dermatoses can be life-threatening if not diagnosed and treated in a timely fashion. Buka’s Emergencies in Dermatology addresses the need for a concise, portable reference [...] 

**Contents**


**Fields of interest**

- Emergency Medicine; Dermatology; Primary Care Medicine; Intensive / Critical Care Medicine; Nursing; Public Health

**Target groups**

- Professional/practitioner

**Type of publication**

- Contributed volume

More on [www.springer.com/978-1-4614-5030-6](http://www.springer.com/978-1-4614-5030-6)
Carotenoids and Human Health

Carotenoids and Human Health provides an introduction to food sources and metabolism. Written by experts in their fields and including the most up-to-date information, this volume serves as an in-depth guide to studies that have been performed in humans and observations that have been made in population level assessments. Special emphasis is given to associations with disease, as well as the importance of carotenoids internationally, specifically as a source of vitamin A for the world. Comprehensive and easy to use, Carotenoids and Human Health is a very useful resource for nutritionists, registered dieticians, medical students, and graduate students.

Features
Carotenoids and Human Health provides an introduction to food sources and metabolism. Written by experts in their fields and including the most up-to-date information, this volume serves as an in-depth guide to studies that have been performed in humans and observations that have been made in population level assessments. Special emphasis is given to associations with disease, as well as the...
Community-Based Participatory Research for Improved Mental Health Care

A Manual for Clinicians and Researchers

Respect for persons, beneficence, and justice are the principles that collectively form the ethical basis of human research. These three principles find expression in Community-Based Participatory Research for Improved Mental Healthcare, or CBPR – a systematic approach for engaging specially-defined groups of people in a process of inquiry and social change. In the Community-Based Participatory Research, a panel of renowned authors provide a step-by-step approach for conducting CBPR, providing all the conceptual and methodological guidelines needed to implement this important and extremely fruitful research approach. As early career investigators use this mode of collaborative[...]

Features
Respect for persons, beneficence, and justice are the principles that collectively form the ethical basis of human research. These three principles find expression in Community-Based Participatory Research for Improved Mental Healthcare, or CBPR – a systematic approach for engaging specially-defined groups of people in a process of inquiry and social change. In Community-Based Participatory Research[...]

Contents

Fields of interest
Psychiatry; Primary Care Medicine; Public Health

Target groups
Professional/practitioner

Type of publication
Monograph


Softcover
29,95 €
Usually dispatched within 3 to 5 business days.

Diabetes Mellitus
A Concise Clinical Guide

Diabetes continues to spread across the globe at an alarming rate, with a current count of approximately 386 million worldwide. Physicians and healthcare professionals in all specialties greatly need a concise guide for managing this disease on a daily basis. Diabetes Mellitus – A Concise Clinical Guide covers the basics of diagnosis, complications, therapies and prevention. Major developments in understanding diabetes and in therapeutic approaches to this disease are also featured. This book is comprised of sections originally published in the comprehensive textbook, Principles of Diabetes Mellitus, Second Edition. Primary care physicians and endocrinologists, as well as medical[...]

Features
Diabetes continues to spread across the globe at an alarming rate, with a current count of approximately 386 million people worldwide having the disease. Physicians and healthcare professionals in all specialties greatly need a concise guide for managing this disease on a daily basis. Diabetes Mellitus – A Concise Clinical Guide covers the basics of diagnosis, complications, therapies and[...]

Fields of interest
Diabetes; Endocrinology; Internal Medicine

Target groups
Professional/practitioner

Type of publication
Contributed volume

More on www.springer.com/978-1-4614-5707-7

Softcover
49,95 €
Usually dispatched within 3 to 5 business days.

Diagnostic and Interventional Radiology of Arteriovenous Accesses for Hemodialysis

This is the first textbook entirely dedicated to the endovascular treatment of complications related to arteriovenous accesses for hemodialysis (native fistulas and prosthetic grafts). The book addresses the anatomy of upper limb arteries and veins as well as the clinical presentation of patients and the way to perform and read a fistulogram. Many details and illustrations are provided, clarifying the subtleties in catheterization and the dilation of stenoses. From a strategic point of view, it is explained for the first time that many stenoses must either be ignored or deliberately underdilated. A wealth of images helps to understand the different stages of access recovery from[...]

Features
This is the first textbook entirely dedicated to the endovascular treatment of complications related to arteriovenous accesses for hemodialysis (native fistulas and prosthetic grafts). The book addresses the anatomy of upper limb arteries and veins as well as the clinical presentation of patients and the way to perform and read a fistulogram. Many details and illustrations are provided, clarifying the[...]

Contents
Glory and weakness of interventional radiology in dialysis accesses. - The nephrologist, the interventional radiologist and the place of the vascular access in the treatment of end stage renal disease. - Vascular access strategy. - Natural history of vascular accesses. - Radiological anatomy and pre-operative imaging of upper limb vessels. - Which indications and which imaging method for the dialysis access? - Psychologica and clinical aspects. - Clinical pre-requisites prior to angiography. - Angiography (+ fistulography +). - Dilation and stents. - Hand ischemia. - How dealing with the[...]

Fields of interest
Imaging / Radiology; Nephrology; Cardiology; Interventional Radiology

Target groups
Professional/practitioner

Type of publication
Monograph

More on www.springer.com/978-2-8178-0365-4

Softcover
129,95 €
ISBN 978-2-8178-0365-4
Usually dispatched within 3 to 5 business days.
Die erfolgreiche Arztpraxis
Patientenorientierung · Mitarbeiterführung · Marketing

Warum sollte ein Patient ausgerechnet in Ihre Praxis kommen? Patienten kommen gerne (wieder), wenn sie sich fachlich gut aufgehoben und emotional wohl fühlen. Der heutige Patient ist dabei informierter, anspruchsvoller und fordernder denn je. Er will:

Features
Warum sollte ein Patient ausgerechnet in Ihre Praxis kommen? Patienten kommen gerne (wieder), wenn sie sich fachlich gut aufgehoben und emotional wohl fühlen. Der heutige Patient ist dabei informierter, anspruchsvoller und fordernder denn je. Er will:

Contents

Fields of interest
Practice Management · General Practice / Family Medicine · Gynecology · Geriatrics / Gerontology · Internal Medicine · Pediatrics

Target groups
Professional/practitioner

Type of publication
Professional book

More on www.springer.com/978-3-642-29296-5

Hardcover
2013. XIX, 179 S. 17 Abb. (Erfolgskonzepte Praxis- & Krankenhaus-Management)
42,01 €
ISBN 978-3-642-29296-5

Usually dispatched within 3 to 5 business days.

Disaster Medicine
A Case Based Approach
Whether switching on the TV, picking up a newspaper or simply logging on to the internet, one is constantly faced with images of natural disasters, conflict and human suffering. Humanity has experienced these problems throughout time and we have evolved methods and mechanisms for alleviating suffering, from trauma care following a traffic accident to international pacts and the Millennium Development Goals. In exploring such diverse cases of aid intervention, Disaster Medicine: A Case Based Approach provides interesting, easily accessible content and context for understanding disaster medicine and global health. In each case the reader will be put in the position of the decision maker[…].

Features
Whether switching on the TV, picking up a newspaper or simply logging on to the internet, one is constantly faced with images of natural disasters, conflict and human suffering. Humanity has experienced these problems throughout time and we have evolved methods and mechanisms for alleviating suffering, from trauma care following a traffic accident to international pacts and the Millennium Development Goals. In each case the reader will be put in the position of the decision maker[…].

Contents

Fields of interest
Emergency Medicine · Traumatic Surgery

Target groups
Professional/practitioner

Type of publication
Contributed volume

More on www.springer.com/978-1-4471-4422-9

Hardcover
2013. XVII, 390 p. 68 illus., 63 in color.
139,95 €

Usually dispatched within 3 to 5 business days.

Early Gastrointestinal Cancers

This Recent Results in Cancer Research volume contains the majority of the invited expert contributions from the First St. Gallen EORTC Gastrointestinal Cancer Conference, held on 22-24 March 2012 in St. Gallen, Switzerland. Written by some of the world’s leading experts in the field, the volume constitutes a comprehensive update on recent developments in the imaging, molecular biology, pathology, and multidisciplinary management of early cancer of the gastrointestinal tract. The latest recommendations regarding diagnosis and treatment are provided, and areas of consensus and controversy, identified. While the principal focus is on esophageal and gastric cancer, advances in the[…].

Features
This Recent Results in Cancer Research volume contains the majority of the invited expert contributions from the First St. Gallen EORTC Gastrointestinal Cancer Conference, held on 22-24 March 2012 in St. Gallen, Switzerland. Written by some of the world’s leading experts in the field, the volume constitutes a comprehensive update on recent developments in the imaging, molecular biology, pathology,[…].

Contents
Clinically relevant study end points in rectal cancer: Neoadjuvant treatment in rectal cancer: Do we always need radiotherapy? Treatment dilemmas in patients with synchronous colorectal liver metastases: Pancreatic surgery: beyond the traditional limits: Adjuvant therapy for pancreatic cancer: Radiotherapy of the pancreas: state of the art in 2012: Adenocarcinoma of the GE: gastric or oesophageal cancer?: Why is there a change in patterns of GE cancer?: Open or minimally invasive resection for oesophageal cancer?: Criteria for selecting the best multimodal therapy: When is the[…].

Fields of interest
Oncology · Surgical Oncology · Radiotherapy · Gastroenterology · Pathology · Imaging / Radiology

Target groups
Professional/practitioner

Type of publication
Proceedings

More on www.springer.com/978-3-642-31628-9

Hardcover
2012. XII, 318 p. 36 illus., 33 in color. (Recent Results in Cancer Research, Vol. 196)
139,95 €
ISBN 978-3-642-31628-9

Usually dispatched within 3 to 5 business days.
Emerging Concepts in Neuro-Oncology

Having been a fairly dormant specialty for many decades, in recent years there has been a remarkable increase in activity in Neuro-oncology from basic science through to the clinics. Reflecting this there have been considerable advancements in the understanding of the biology of CNS malignancies which have informed the development of many novel and successful therapies. This work aims to bring together the scattered literature on the new concepts in neuro-oncology for the benefit of those in the field. The book moves from concepts in the scientific basis of neuro-oncology, through to modelling techniques and finishing on the translation into clinical practice.

Features

Neuro-oncology is one of the most exciting and rapidly evolving areas of oncology. In recent years there has been a remarkable increase in activity in the field, from basic science through to the clinic. This is reflected by advances in the understanding of the biology of CNS malignancies which have informed the development of novel and successful therapies. In this environment it is essential to [..]

Contents


Fields of interest

Oncology; Neurology; Cancer Research; Neurosciences

Target groups

Professional/practitioner

Type of publication

Contributed volume


Hardcover

2013. X, 220 p. 54 illus., 50 in color. 139.95 €


Usually dispatched within 3 to 5 business days.

End of Life Care in Neurological Disease

As end of life care is extended to more and more people it is increasingly important that people with progressive neurological disease are recognised as having particular issues as their disease progresses. This group of people with advancing motor nerve disease, multiple sclerosis, Parkinson’s disease, multiple systems atrophy, progressive supranuclear palsy, Huntington’s disease and other progressive neurological disease face increasing problems – with physical symptoms and psychosocial and spiritual issues for both themselves and their families and carers. This book encourages health and social care professionals to become closely involved in the care of these people and their[..]

Features

People with advancing neurological disease face increasing physical symptoms, along with psychosocial and spiritual issues affecting both themselves and their families and carers. There is increasing awareness that the end of life in neurological disease can be anticipated and recognised, taking into account certain key features of disease progression, and the associated issues can be addressed. The [..]

Contents


Fields of interest

Pain Medicine; Neurology; Internal Medicine

Target groups

Professional/practitioner

Type of publication

Contributed volume

More on www.springer.com/978-0-85729-681-8

Hardcover

2013. X, 238 p. 10 illus., 6 in color. 29.95 €


Usually dispatched within 3 to 5 business days.

Enhancing Early Child Development

A Handbook for Clinicians

Early childhood development refers to the skills that children acquire within their first five years of life, which lay the foundation for future learning. Children need care and support to stimulate their growth and healthy development. The stimulation of language, understanding, personal, social and motor skills of the child are important at an early age and it is one of the primary physicians’ responsibilities to give proper advice to parents on how to promote their child’s physical and mental development. Enhancing Early Child Development: A Handbook for Clinicians is a quick reference guide for pediatricians, clinicians, and pediatric nurse practitioners that aims at promoting[..]

Features

Early childhood development refers to the skills that children acquire within their first five years of life, which lay the foundation for future learning. Children need care and support to stimulate their growth and healthy development. The stimulation of language, understanding, personal, social and motor skills of the child is important at an early age and it is one of the primary physicians’[..]

Contents


Fields of interest

Pediatrics; Primary Care Medicine; General Practice / Family Medicine; Child and School Psychology

Target groups

Professional/practitioner

Type of publication

Monograph

More on www.springer.com/978-1-4614-4826-6

Softcover

2013. XVII, 164 p. 79 illus., 59 in color. 29.95 €

ISBN 978-1-4614-4826-6

Usually dispatched within 3 to 5 business days.
Essential Urology

A Guide to Clinical Practice

Extensively revised and updated, the second edition of Essential Urology: A Guide to Clinical Practice provides support to primary care physicians through its review of common genitourinary problems. This edition continues to provide the primary care physician with tools to better recognize urological diseases as well as updated management strategies for these disorders. To enhance the theme of comprehensive care and family medicine, the volume is formatted according to the life cycle and the urological challenges, which may be detected and diagnosed by primary care physicians respective of the patient’s stage in life, beginning with pregnancy and in utero diagnoses. Pediatric themes...

Features

Extensively revised and updated, the second edition of Essential Urology: A Guide to Clinical Practice provides support to primary care physicians through its review of common genitourinary problems. This edition continues to provide the primary care physician with tools to better recognize urological diseases as well as updated management strategies for these disorders. To enhance the theme of...

Contents


Fields of interest

Urology / Andrology; Obstetrics / Perinatology; Primary Care Medicine

Target groups

Professional/practitioner

Type of publication

Contributed volume


Ethics, Health Policy and (Anti-) Aging: Mixed Blessings

This volume focuses on the ethical and philosophical issues that arise in an aging society, and the implications of these issues for healthcare and social policy. After a brief overview of biomedicine's changing approach of ageing and longevity and of the new expectations that these changes generate, various ethical, social, and policy issues that surround aging and longevity are discussed. First, the images and social meanings of aging and old age in our society are explored, including their normative dimensions and implications for policy. Next, ethical issues in the care for frail elderly are discussed, as well as notions of good care and end-of-life decisions. Finally, the ethical...

Contents

Schmermer and Pinxtens – Introduction. - I. Science of on ageing and longevity. - Wim Pinxtens; Scientists expectations of (anti-) aging research. - Joao De Magalhaes – Pertinent ethical issues in the genomics of ageing. - II. Images of age and ageing. - Soren Holm; Ecce Homo: the implicit anthropology of bioethics and the ageing person. - Wim Dekkers; An anthropologist of the aging person. - John Vincent; The anti-ageing movement: contemporary cultures and the social construction of old age. - Bert Keizer; Why we don’t like old people. - Frans Meulenberg – Older people’s own views on age and...

Fields of interest

Theory of Medicine / Bioethics; Ethics; Health Promotion and Disease Prevention

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-94-007-3869-0

Hardcover

2012. XII, 306 p. 99 illus., 39 in color. (Current Clinical Urology)

149,95 €


Usually dispatched within 3 to 5 business days.

Essentials of Palliative Care

Essentials of Palliative Care is a to-the-point, clinically oriented resource for all members of the multidisciplinary palliative care team and trainees. It covers practical clinical topics, including assessment of the patient and pain and symptom management, and practical non-medical topics central to providing effective palliative care, including psychological management, guidance on how to help patients and their families through the many healthcare decision points they face, and sensitivity to the goals and culture of the patient. Review questions, with detailed answers, provide a convenient way for readers to test their knowledge. Features: - Concise, comprehensive,...

Features

Essentials of Palliative Care is a to-the-point, clinically oriented resource for all members of the multidisciplinary palliative care team and trainees. It covers practical clinical topics, including assessment of the patient and pain and symptom management, and practical non-medical topics central to providing effective palliative care, including psychological management, guidance on how to help...

Contents


Fields of interest

Pain Medicine; Anesthesiology; Intensive / Critical Care Medicine; Internal Medicine; Nursing

Target groups

Professional/practitioner

Type of publication

Professional book

More on www.springer.com/978-1-4614-5163-1

Softcover

2013. XXI, 518 p. 26 illus., 13 in color.

49,95 €

ISBN 978-1-4614-5163-1

Usually dispatched within 3 to 5 business days.
Gastroesophageal Reflux and the Lung

Gastroesophageal Reflux and the Lung provides a comprehensive review of current knowledge concerning normal deglutition and foregut digestive processes and examines how abnormalities of swallowing or excessive/abnormal GER can lead to respiratory tract dysfunction and lung disease. In-depth Chapters deliver a concise review of the prevalence of GER in patients with lung disease and synthesize the current evidence regarding its diagnosis and management. Each chapter includes key points and a summary. In addition to outlining the current state of knowledge, each chapter provides a summary of ongoing research in the field and identifies the need for future research. Written by [...]

Features
Gastroesophageal Reflux and the Lung provides a comprehensive review of current knowledge concerning normal deglutition and foregut digestive processes and examines how abnormalities of swallowing or excessive/abnormal GER can lead to respiratory tract dysfunction and lung disease. In-depth Chapters deliver a concise review of the prevalence of GER in patients with lung disease and [...]

Contents

Fields of interest
Pneumology/Respiratory System; Internal Medicine; Primary Care Medicine

Target groups
Professional/practitioner

Type of publication
Contributed volume

More on www.springer.com/978-1-4471-4443-4

Hardcover

Usually dispatched within 3 to 5 business days.

Genitourinary Radiology: Kidney, Bladder and Urethra

The Pathologic Basis
Genitourinary Radiology: Kidney, Bladder and Urethra: The Pathologic Basis is the first volume in a set of books on the pathologic basis of genitourinary radiology. Genitourinary Radiology: Kidney, Bladder and Urethra: The Pathologic Basis provides a lavishly illustrated guide to the radiologic and pathologic features of a broad spectrum of genitourinary diseases of the urinary tract, including the entities most commonly encountered in day to day practice. The editors are authorities in the fields of genitourinary radiology and pathology, and the authors of each chapter are renowned radiologists, with pathology content provided by an internationally recognized genitourinary[...]

Features
Genitourinary Radiology: Kidney, Bladder and Urethra: The Pathologic Basis provides a lavishly illustrated guide to the radiologic and pathologic features of a broad spectrum of genitourinary diseases of the urinary tract, including the entities most commonly encountered in day to day practice. The editors are authorities in the fields of genitourinary radiology and pathology, and the authors of[...]

Contents

Fields of interest
Imaging / Radiology; Pathology; Urology / Androl- ogy; Oncology

Target groups
Professional/practitioner

Type of publication
Atlas

More on www.springer.com/978-1-84800-244-9

Hardcover
2013. XIV, 378 p. 529 illus., 244 in color. 129,95 € ISBN 978-1-84800-244-9

Online orders shipping within 2-3 days.
Handbook of Endovascular Interventions

Handbook of Endovascular Interventions presents a step-wise approach to the techniques of peripheral vascular interventions. Covering interventions in all major organ systems, this concise and comprehensive resource provides the rationale on why these approaches have been adopted by most practicing vascular interventionalists. This volume also presents key information on intervention techniques and pitfalls, complications and their management, surgical management options, as well as landmark papers on the topic. Unique to this book is the inclusion of sections building an endovascular suite, and coding as well as international training paradigms across the globe. Authored by [...]
## Innovation with Information Technologies in Healthcare

This book provides an extensive review of what innovation means in healthcare, with real-life examples and guidance on how to successfully innovate with IT in healthcare.

### Features

- Huge amounts of money are spent on electronic health record (EHR) and other healthcare information technology (HIT) systems each year, and the challenge is to ensure these systems are effective on every level. Simply recreating paper-based processes on these systems does not significantly improve quality, efficiency or the financial aspects of setting up these services. While there are excellent resources on these systems, the current challenge is to design effective implementation strategies that comprehensively address the needs of healthcare providers.

### Contents

**Foreword**
- The Healing Edge
- Mad for Method: You Have an EHR. Now What: The Inflection Navigator
- Making ‘Right’ Easier: Prevention Every Time: Logic Ruled: “All or None” Bundle Philosophy: Automatically Getting Better
- Meet You at 01100101: The Connected Patient
- The Virtual Consultant: TeleVisits Keeps IT Local

**Fields of interest**
- Medicine (general)

**Type of publication**
- Professional/practitioner

**Target groups**
- Provider

**Type of publication**
- Hardcover

<table>
<thead>
<tr>
<th>Hardcover 2013</th>
<th>303 p. 83 illus., 77 in color. (Health Informatics)</th>
</tr>
</thead>
<tbody>
<tr>
<td>59.95 €</td>
<td>ISBN 978-1-4471-4326-0</td>
</tr>
</tbody>
</table>

*Usually dispatched within 3 to 5 business days.*

---

## Klinikmanual Kinder- und Jugendpsychiatrie und -psychotherapie


### Features


### Contents


### Fields of interest

- Psychiatry, Psychotherapy, Pediatrics

**Target groups**
- Professional/practitioner

**Type of publication**
- Hardcover

<table>
<thead>
<tr>
<th>Hardcover 2013</th>
<th>XIX, 298 S. 74 Abb. in Farbe.</th>
</tr>
</thead>
<tbody>
<tr>
<td>32.66 €</td>
<td>ISBN 978-3-642-29898-1</td>
</tr>
</tbody>
</table>

*Online orders shipping within 2-3 days.*
Klinisch-forensische Medizin

Interdisziplinärer Praxisleitfaden für Ärzte, Polizeibeamte, Juristen und Betreuer von Gewaltopfern


Features
Die Anforderung im medizinischen Alltag rechtlich relevante Sachverhalte, etwa nach Gewalt im häuslichen Umfeld zu erkennen und zeitgemäß richtig zu handeln ist in den letzten Jahren stark gestiegen. Es sind in der Regel klinisch tätige Ärzte, Angehörige der Polizeibehörde und nichtmedizinische Laien wie Polizeibeamte und Mitarbeiter von Opferschutz einrichtungen, die als erste mit Opfern in Kontakt treten und [...]

Contents
Management of Soft Tissue Sarcoma

Management of Soft Tissue Sarcoma addresses the diagnosis and best current management of adult soft tissue sarcomas. Edited by world renowned experts, this book delineates and discusses each different sarcoma subtype individually. Both clinical and molecular diagnoses are addressed, and tumor histopathology is employed as the basis of treatment recommendations including surgery, radiation therapy, systemic therapy and novel therapeutics.

Contents

Fields of interest
Oncology; Surgical Oncology; Surgery; Radiotherapy; Internal Medicine

Target groups
Professional/practitioner

Type of publication
Contributed volume

More on www.springer.com/978-1-4614-5003-0

Hardcover
2013. XV, 380 p. 291 illus., 196 in color.
149.95 €
ISBN 978-1-4614-5003-0
Usually dispatched within 3 to 5 business days.

Springer Verlag, Springer Verlag (Ed.)

Mein Notizbuch Medizin

Auf Station oder in der Praxis: ständig muss man sich Kleinigkeiten merken und aufschreiben. Patientin Müller muss heute um 15:00 Uhr ins CT ... Patient Maier ab morgen Dosiserhöhung und dann auch noch bitte die Blutbildkontrolle nicht vergessen. Damit Organisation in die Kitteltasche kommt, brauchen Sie ein handliches, kleines Notizbuch. Gerne in blau und gerne von Springer...

Features
Auf Station oder in der Praxis: ständig muss man sich Kleinigkeiten merken und aufschreiben. Patientin Müller muss heute um 15:00 Uhr ins CT ... Patient Maier ab morgen Dosiserhöhung und dann auch noch bitte die Blutbildkontrolle nicht vergessen. Damit Organisation in die Kitteltasche kommt, brauchen Sie ein handliches, kleines Notizbuch. Gerne in blau und gerne von Springer...

Contents
Meine Notizen.- Termine.- Dosierungen.- Wichtige Infos.

Fields of interest
Medicine (general)

Target groups
Popular/general

Type of publication
Professional book

More on www.springer.com/978-3-642-35007-8

Softcover
2012. XII, 176 S.
4,67 €
ISBN 978-3-642-35007-8
Online orders shipping within 2-3 days.

Springer Verlag (Ed.)

Mein Notizbuch Pflege

Wichtige Informationen darf man nicht vergessen! Sind es aber ausgesprochen viele Informationen oder befindet sich die Hälfte der Info immer gerade da, wo man nicht ist, muss man sich anders organisieren. Mit diesem kleinen, handlichen Notizbuch können Sie jederzeit auf die Information zugreifen, die für Sie persönlich wichtig ist. Damit Sie nichts vergessen, Jederzeit griffbereit und ganz ohne Akku.

Features
Wichtige Informationen darf man nicht vergessen! Sind es aber ausgesprochen viele Informationen oder befindet sich die Hälfte der Info immer gerade da, wo man nicht ist, muss man sich anders organisieren. Mit diesem kleinen, handlichen Notizbuch können Sie jederzeit auf die Information zugreifen, die für Sie persönlich wichtig ist. Damit Sie nichts vergessen, Jederzeit griffbereit und ganz ohne Akku.

Contents
Meine Notizen.- Termine.- Wichtige Infos.

Fields of interest
Nursing

Target groups
Popular/general

Type of publication
Professional book

More on www.springer.com/978-3-642-35005-4

Softcover
2012. XII, 176 S.
4,67 €
ISBN 978-3-642-35005-4
Online orders shipping within 2-3 days.
Mitochondria and Their Role in Cardiovascular Disease

Over the past two decades, due to dramatic advances in molecular and cell biology, biochemistry, and genetics, our view on mitochondria as a relatively static cellular powerhouse has changed radically. We now know that these organelles play a critical role in the normal and in the damaged heart. Written by Dr. José Marin-Garcia, Director of the Molecular Cardiology and Neuromuscular Institute, Mitochondria and Their Role in Cardiovascular Disease brings readers up-to-date on the many significant advances in the field of mitochondrial cardiovascular medicine. The book begins with a general introduction to mitochondria, followed by laboratory methods to study the structure and functions of mitochondria in pediatric cardiovascular diseases.-[...]

Features

Over the past two decades, due to dramatic advances in molecular and cell biology, biochemistry, and genetics, our view on mitochondria as a relatively static cellular powerhouse has changed radically. We now know that these organelles play a critical role in the normal and in the damaged heart. Written by Dr. José Marin-Garcia, Director of the Molecular Cardiology and Neuromuscular Institute, [-]

Contents


Fields of interest

Cardiology; Medical Biochemistry

Target groups

Professional/practitioner

Type of publication

Monograph


Hardcover

2013. XVI, 500 p. 123 illus., 115 in color.
169,95 €
Usually dispatched within 3 to 5 business days.

Mobility of Health Professionals

Health Systems, Work Conditions, Patterns of Health Workers’ Mobility and Implications for Policy Makers

This book on mobility of health professionals reviews, analyses and summarises published information and data as well as collected interview data from stakeholders, including politicians, policy makers, health service managers and migrant health workers. It is based on the research carried out under the umbrella of the EU-funded project “Mobility of Health Professionals (MoHProf). The partners involved in the MoHProf project gathered evidence from 25 countries around basic questions and knowledge gaps relating to the international migration of health professionals, which involved an analysis of migration flows and evaluation of policies addressing migration. This book provides a[...]

Features

This book on mobility of health professionals reviews, analyses and summarises published information and data as well as collected interview data from stakeholders, including politicians, policy makers, health service managers and migrant health workers. It is based on the research carried out under the umbrella of the EU-funded project “Mobility of Health Professionals (MoHProf). The partners involved in the MoHProf project gathered evidence from 25 countries around basic questions and knowledge gaps relating to the international migration of health professionals, which involved an analysis of migration flows and evaluation of policies addressing migration. This book provides a[...] 

Contents

Introduction.- International mobility as a process.- Factors contributing to mobility of health workers.- Countries, structures and systems.- Some notions about the European dimension.- Managing mobile health workforce.- Conclusions, challenges and recommendations.- References.

Fields of interest

Medicine (general); Migration; European Integration

Target groups

Research

Type of publication

Monograph

More on www.springer.com/978-3-642-34052-9

Softcover

2013. XX, 168 p. 48 illus.
99,95 €
ISBN 978-3-642-34052-9
Usually dispatched within 3 to 5 business days.

Molecular Surgical Pathology

Molecular Surgical Pathology provides a concise review of recent advancement of molecular pathology in each organ system. The text is intended as a “first knowledge base” in the rapidly evolving field of molecular pathology and is organized in a user-friendly outline format. Each chapter is organ-based and covers important aspects of molecular pathology and its impact on our daily practice of surgical pathology. The[...]

Features

Molecular Surgical Pathology provides a concise review of recent advancement of molecular pathology in each organ system. The text is intended as a “first knowledge base” in the rapidly evolving field of molecular pathology and is organized in a user-friendly outline format. Each chapter is organ-based and covers important aspects of molecular pathology and its impact on our daily practice of[...] 

Contents

Molecular Pathology of Colorectal Cancers.- Molecular Pathology of Pancreatic Cancer.- Molecular Pathology of Liver Tumors.- Molecular Pathology of Gallbladder Cancer.- Molecular Pathology of Lung Cancers.- Molecular Pathology of Breast Cancer.- Molecular Pathology of Ovarian Cancer.- Molecular Pathology of Endometrial Cancer.- Molecular Pathology of Kidney Tumors.- Molecular Pathology of Prostate Cancer.- Molecular Pathology of Urinary Bladder Cancer.- Molecular Pathology of Testicular Cancer.- Molecular Pathology of Cutaneous Melanoma and Nonmelanoma Skin Cancer.- Molecular Pathology[...] 

Fields of interest

Pathology; Oncology; Laboratory Medicine; Cancer Research

Target groups

Professional/practitioner

Type of publication

Contributed volume

More on www.springer.com/978-1-4614-4899-0

Hardcover

2013. XI, 436 p. 131 illus., 125 in color.
149,95 €
ISBN 978-1-4614-4899-0
Usually dispatched within 3 to 5 business days.
Nanotechnology in Dermatology

Nanotechnology in Dermatology is the first book of its kind to address all of the important and rapidly growing aspects of nanotechnology as it relates to dermatology. In the last few years there has been an explosion in research and development for products and devices related to nanotechnology, including numerous applications for consumers, physicians, patients, and industry. Applications are underway in medicine and dermatology for the early detection, diagnosis, and targeted therapy of disease, and nanodesigned materials and devices are expected to be faster, smaller, more powerful, more efficient, and more versatile than their traditional counterparts. Written by experts [...]

Contents

Fields of interest
Dermatology; Nanotechnology; Pharmaceutical Sciences / Technology; Nanoscience and Technology; Nanotechnology and Microengineering

Target groups
Professional/practitioner

Type of publication
Contributed volume

More on www.springer.com/978-1-4614-5033-7

Hardcover
2013. XVI, 291 p. 49 illus., 27 in color. 149,95 € ISBN 978-1-4614-5033-7 Usually dispatched within 3 to 5 business days.

Neuropsychiatric Dysfunction in Multiple Sclerosis

This book provides comprehensive and up-to-date information on the neuropsychiatric disturbances that may be experienced by patients with multiple sclerosis. The first section is designed primarily to describe the general clinical aspects of multiple sclerosis, from epidemiology to assessment tools. The role of neuroimaging and especially MRI is then explained, and treatment approaches and rehabilitation strategies are described. The core section of the volume is the second, in which the various forms of neuropsychiatric dysfunction are considered in depth. Especially, detailed attention is devoted to depression, but the other main categories of disturbance are also described and [...]

Contents

Fields of interest

Neutron Capture Therapy

Principles and Applications

Neutron capture therapy (NCT) is based on the ability of the non-radioactive isotope boron-10 to capture thermal neutrons with very high probability and immediately to release heavy particles with a path length of one cell diameter, which in principle allows for tumor cell-selective high-LET particle radiotherapy. This book provides a comprehensive summary of the progress made in NCT in recent years. Individual sections cover all important aspects, including neutron sources, boron chemistry, drugs for NCT, dosimetry, and radiation biology. The use of NCT in a variety of malignancies and also some non-malignant diseases is extensively discussed. NCT is clearly shown to be a promising [...]

Contents

Fields of interest
Radiotherapy; Oncology; Imaging / Radiology

Target groups
Professional/practitioner

Type of publication
Contributed volume

More on www.springer.com/978-3-642-31333-2

Hardcover
2012. IX, 553 p. 157 illus., 84 in color. 169,95 € ISBN 978-3-642-31333-2 Usually dispatched within 2-3 days.
New Techniques for Thoracic Outlet Syndromes

New Techniques for Thoracic Outlet Syndromes presents in a comprehensive format an up-to-date, state of the art reference that physicians can use in consultation to properly treat patients using the resources that modern medicine offers. This book offers the newer surgical approaches that have been developed during the past 30 years. Some of these techniques are modification of operations that were proposed previously but were not fully effective and left many patients suffering with permanent disabil-

ity. This textbook is a compendium of the proper management of these patients that cannot be found in isolated reports of literature. The neurogenic-arterial thoracic outlet syndrome[...]

Features
New Techniques for Thoracic Outlet Syndromes presents in a comprehensive format an up-to-date, state of the art reference that physicians can use in consultation to properly treat patients using the resources that modern medicine offers. This book offers the newer surgical approaches that have been developed during the past 30 years. Some of these techniques are modification of operations that were [...]

Contents
Section I. NEUROGENIC-ARTERIAL THORACIC OUTLET SYNDROME. - 1. Symptoms of Neu-
gical Treatment. - 5. Supravacular approach. - 6. Transpleural Intravascular Approach. - 7. The Par-

Fields of interest
Thoracic Surgery; Vascular Surgery; Interventional Radiology

Target groups
Professional/practitioner

Type of publication
Professional book

Content providers
A. Schramm, Medienbüro Medizin (MBMed), Hamburg (Ed.)

Online-Marketing für das erfolgreiche Krankenhaus
Website, SEO, Social Media, Werberecht


Features

Contents

Fields of interest
Practice Management; Medicine (general); General Practice / Family Medicine; Public Health; Internal Medicine; Health Informatics

Target groups
Professional/practitioner

Type of publication
Professional book

Content providers
More on www.springer.com/978-3-642-29226-2

Hardcover
2013. XV, 189 S. (Erfolgskonzepte Praxis- & Krankenhaus-Management)
46,68 €
ISBN 978-3-642-29226-2

Usually dispatched within 3 to 5 business days.

Oogenesis

The oocyte is the largest and most mysterious cell in the body of mammalian organisms. Through its growth and maturation, it reaches extreme levels of specialization, while maintaining at the same time a condition of totipotency. Its unique ability, in co-operation with the spermatozoon, to give rise to a fully developed organism formed from hundreds of different tissues and myriads of individual cells has inspired intellectuals of all ages. Oogenesis finds impetus and purpose in casting scientific perspective towards this unique cell for the benefit of scientists and assisted reproductive technology (ART) specialist. The authors of the chapters are distinguished authorities in their[...]

Contents

Fields of interest
Reproductive Medicine

Target groups
Professional/practitioner

Type of publication
Contributed volume

Content providers
More on www.springer.com/978-0-85729-825-6

Hardcover
2013. XII, 364 p. 62 illus., 42 in color. 149,95 €
ISBN 978-0-85729-825-6

Usually dispatched within 3 to 5 business days.
PET-CT and PET-MRI in Oncology

A Practical Guide

Over the past decade, PET-CT has achieved great success owing to its ability to simultaneously image structure and function, and show how the two are related. More recently, PET-MRI has also been developed, and it represents an exciting novel option that promises to have applications in oncology as well as neurology. The first part of this book discusses the basics of these dual-modality techniques, including the scanners themselves, radioisotopes, scan performance, quantitation, and scan interpretation. As a result, the reader will learn how to perform the techniques to maximum benefit. The second part of the book then presents in detail the PET-CT and PET-MRI findings in cancers of...[...]

Features

Over the past decade, PET-CT has achieved great success owing to its ability to simultaneously image structure and function, and show how the two are related. As a consequence, it has increasingly replaced stand-alone PET for most oncologic indications. More recently, PET-MRI has also been developed, and it represents an exciting novel option that promises to have applications in oncology as well...[...]

Contents


Fields of interest

Imaging / Radiology; Diagnostic Radiology; Nuclear Medicine; Oncology

Target groups

Professional/practitioner

Type of publication

Contributed volume

More on www.springer.com/978-3-642-01138-2

Hardcover

2012, XVI, 435 p., 600 illus. in color. (Diagnostic Imaging) 239,00 € ISBN 978-3-642-01138-2

Online orders shipping within 2-3 days.

POP - PraxisOrientierte Pflegediagnostik

Pflegediagnosen - Ziele - Maßnahmen


Features


Contents


Fields of interest

Nursing; Nursing Management / Nursing Research

Target groups

Professional/practitioner

Type of publication

Professional book

More on www.springer.com/978-3-7091-1283-0

Hardcover


Online orders shipping within 2-3 days.

Patellar Instability Surgery in Clinical Practice

Among all the extensor mechanism pathologies, lateral patellar instability is of great interest not only for the knee specialist, but also for the general orthopedic surgeon and trainee. The procedure that is most frequently performed to treat lateral patellar instability is the medial patellofemoral ligament (MPFL) reconstruction. The reason for this great interest in this procedure is obvious. Medial patellofemoral ligament reconstruction is the most frequently performed procedure in the extensor mechanism. It also is the most predictable and has the best clinical results of all the procedures in the extensor mechanism. In this handbook we analyse the different reconstruction...[...]

Features

Patellar Instability Surgery in Clinical Practice analyzes in a step by step format, the different reconstruction techniques for the medial patellofemoral ligament (MPFL) reconstruction as well as other techniques less frequently used in the patient with lateral patellofemoral instability, also the treatment of medial patellofemoral instability is also explained. Patellar Instability surgery is a...

Contents

CHAPTER 1. Reconstruction of the Medial Patellofemoral Ligament: Complications After Medial Patellofemoral Ligament Reconstruction. Pieter J. Eeman and Mathieu Thau...[...]

Fields of interest

Orthopedics; Surgical Orthopedics

Target groups

Professional/practitioner

Type of publication

Contributed volume

More on www.springer.com/978-1-4471-4500-4

Softcover


Usually dispatched within 3 to 5 business days.
Peripheral Nerve Injuries: A Clinical Guide

Peripheral Nerve Injuries: A Clinical Guide is a fully illustrated and informative reference on injuries within the peripheral nervous system. It incorporates new knowledge in molecular and cellular events which underlie the response of nerves to injury, regeneration and neuropathic pain. Written by a leading expert in the field, Peripheral Nerve Injuries: A Clinical Guide, is a valuable resource for surgeons in residence and training.

Features

Peripheral Nerve Injuries: A Clinical Guide is a fully illustrated and informative reference on injuries within the peripheral nervous system. It incorporates new knowledge in molecular and cellular events which underlie the response of nerves to injury, regeneration and neuropathic pain. Written by a leading expert in the field, Peripheral Nerve Injuries: A Clinical Guide, is a valuable resource for surgeons in residence and training.

Contents


Fields of interest

Surgery; Neurology; Traumatic Surgery

Target groups

Professional/practitioner

Type of publication

Monograph

Hardcover

2013. XIX, 270 p. 213 illus., 181 in color. 139,95 €
ISBN 978-1-4471-4612-4

Online orders shipping within 2-3 days.
Physiology and Physiopathology of Adipose Tissue

The scientific advances in the physiology and pathophysicsiology of adipose tissue over the last two decades have been considerable. Today, the cellular and molecular mechanisms of adipogenesis are well known. In addition, adipose tissue is now recognized as a real endocrine organ that produces hormones such as the leptin acting to regulate food intake and energy balance in the central nervous system, a finding that has completely revolutionized the paradigm of energy homeostasis. Other adipokines have now been described and these molecules are taking on increasing importance in physiology and pathophysiology. Moreover, numerous works have shown that obesity, but also in cases of...[...]

Contents

Target groups Research

Type of publication Monograph

More on www.springer.com/978-3-7091-1238-0

Softcover 2013, XVI, 98 S. 62 Abb. in Farbe. 27,23 € ISBN 978-3-7091-1238-0

Online orders shipping within 2-3 days.
Pocket Guide Psychopharmaka
Von A bis Z

Features

Contents
Einleitung und Leseanweisungen. - Abkürzungsverzeichnis. - Wirkstoffe von A bis Z - Interaktionstabellen. - Präparateverzeichnis

Fields of interest
Psychiatrie; Neurologie; Medizin (allgemein); Psychopharmacologie

Target groups
Professional/practitioner

Type of publication
Professional book

More on www.springer.com/978-3-642-20101-1

Softcover
2013. XV, 353 S.
18,64 €
ISBN 978-3-642-20101-1

Online orders shipping within 2-3 days.

Praxis der Viszeralchirurgie
Endokrine Chirurgie

Features
Moderne endokrine Chirurgie erfolgt immer enger interdisziplinärer Zusammenarbeit mit Internisten, Nuclearmedizinern und Pathologen. Die chirurgisch relevanten Erkrankungen der endokrinen Organe sind mit allen Aspekten umfassend in diesem Buch dargestellt: Physiologie und Pathophysiologie der endokrinen Regelkreise, Diagnostik und interdisziplinäre Therapie, praxisorientierte detailierte Empfehlungen zum [...]
**Prostate Cancer Diagnosis**

**PSA, Biopsy and Beyond**

Based on the highly successful first edition of Prostate Biopsy: Indications, Techniques, and Complications, this new volume presents new concepts that have emerged in answer to current questions from its audience. Many new perspectives and technologies are presented, many from the authors’ internationally recognized work on the topic. Substantial developments in techniques and complications are explored in detail. The chapter authors comprise a complete spectrum of specialists in their respective subject areas. All authors are internationally accepted as the premier authorities on their chosen topics. Prostate Cancer Diagnosis: PSA, Biopsy, and Beyond presents new data on the...[

**Contents**

Ch.1: Defining the Problem.- Ch.2: Prostate Cancer Screening: Navigating the Controversy.- Ch.3: Is the PSA Era Over?.- Ch.4: PSA Dynamics.- Ch.5: Percent Free PSA.- Ch.6: PCA3 and other Urinary Markers.- Ch.7: Blood-Based Tumor Markers for Prostate Cancer.- Ch.8: Prediction Models in Prostate Cancer: Diagnosis and Preparation for Biopsy.- Ch.9: Is Cancer Diagnosed?-. Ch.10: Indications for Initial Biopsy: Is The PSA Threshold Over?.- Ch.11: Preparation for Prostate Biopsy.- Ch.12: Pain Prevention.- Ch.13: Prostate Biopsy.- Ch.14:[...]

**Fields of interest**

Medicine (general); Oncology

**Target groups**

Professional/practitioner

**Type of publication**

Contributed volume


**Hardcover**


---

**Psychological Aspects of Cancer**

**Psychological Aspects of Cancer: A Guide to Emotional and Psychological Consequences of Cancer,** Their Causes and Their Management opens with two essays on the biological basis of emotion/mental-driven body processes and disease. The consequence of such considerations is that since thoughts and emotions can be modulated and changed by health care professionals, psychological counseling should be seen not only as a way to help patients cope, but possibly to influence the disease itself. A unique overview of a key area of cancer care, this important title then proceeds to offer a section on genetic predispositions to cancer and the psychological considerations involved in screening and...[

**Features**

Psychological Aspects of Cancer opens with two essays on the biological basis of emotion/mental-driven body processes and disease. The consequence of such considerations is that since thoughts and emotions can be modulated and changed by health care professionals, psychological counseling should be seen not only as a way to help patients cope, but also to influence the disease itself. A unique [...]
Radionuclide Imaging of Infection and Inflammation

A Pictorial Case-Based Atlas

This atlas fills a gap in the literature by documenting in detail the role of nuclear medicine imaging of infection and inflammation. The pathophysiology and molecular mechanisms on which radionuclide imaging of infection/inflammation is based are clearly explained, but the prime focus of the book is on the clinical relevance of such procedures. Their impact is demonstrated by a collection of richly illustrated teaching cases that describe the most commonly observed scintigraphic patterns, as well as anatomic variants and technical pitfalls. Due attention is paid to the application of recently developed techniques, including multimodality fusion imaging such as SPECT/CT and PET/CT.

Features
This atlas fills a gap in the literature by documenting in detail the role of nuclear medicine imaging of infection and inflammation. The pathophysiology and molecular mechanisms on which radionuclide imaging of infection/inflammation is based are clearly explained, but the prime focus of the book is on the clinical relevance of such procedures. Their impact is demonstrated by a collection of richly illustrated teaching cases that describe the most commonly observed scintigraphic patterns, as well as anatomic variants and technical pitfalls.

Contents
1 Normal Findings from Different Radiopharmaceuticals and Techniques, with Variants and Pitfalls.
2 Nuclear Medicine Imaging of Soft Tissue Infections.
3 Nuclear Medicine Imaging of Bone and Joint Infections.
4 Nuclear Medicine Imaging of Joint Prosthesis.
5 Nuclear Medicine Imaging of Vascular Prostheses.
6 Nonorthopedic or Cardiovascular Implantable Device Infection.
7 Nuclear Medicine Imaging of Infections and Inflammation of Central Nervous System, Head and Neck Structures.
8 Infective Endocarditis and Cardiovascular Implantable Electronic Device Infection.

Fields of interest
Nuclear Medicine; Imaging / Radiology; Infectious Diseases; Orthopedics

Target groups
Professional/practitioner

Type of publication
Contributed volume

More on www.springer.com/978-3-642-29868-4

Hardcover
2013. XIII, 244 S. 109 Abb. in Farbe. Mit DVD.
74,72 €
ISBN 978-3-642-29868-4
Online orders shipping within 2-3 days.

Rehabilitation bei Sehbehinderung und Blindheit


Features
Allgemeine Einführung. Grundlagen medizinisch (Anatomie, Physiologie, Dipoptik).- Pathophysiologie, typische Krankheitsbilder, Behinderung.- Sehbehilfenbezogenes Leistungsrecht.- "Alltagshilfen" (Selbsthilfe).- Optische Hilfsmittel (inkl. Qualitäten, Physik).- Elektronische vergrößernde Hilfsmittel.- Blindenhilfen zum Lesen und Schreiben.- Blindenhilfen zur Mobilität.- Anhang.- Index

Fields of interest
Ophthalmology

Target groups
Professional/practitioner

Type of publication
Professional book

More on www.springer.com/978-3-642-30269-5

Hardcover
2013. XII, 244 S. 109 Abb. in Farbe. Mit DVD.
74,72 €
ISBN 978-3-642-30268-8
Online orders shipping within 2-3 days.

S3-Leitlinie Psychosoziale Therapien bei schweren psychischen Erkrankungen

S3-Praxisleitlinien in Psychiatrie und Psychotherapie


Features

Contents

Fields of interest
Psychiatry

Target groups
Professional/practitioner

Type of publication
Professional book

More on www.springer.com/978-3-642-30269-5

Softcover
2013. XVI, 256 S. 6 Abb. 27,99 €
ISBN 978-3-642-30269-5
Usually dispatched within 3 to 5 business days.
Schadensmanagement für Ärzte

Juristische Tipps für den Ernsterfall

Mehr als 40000 mal pro Jahr werden Medizinern Behandlungsfehler vorgeworfen, mit steigender Tendenz. Kunstfehler, Vorsatz, Fahrlässigkeit oder unschuldig? Die Auswirkungen eines Schadensfalles können für betroffene Mediziner gravierend sein. Überlegtes Handeln und detaillierte Kenntnisse über das konkrete Vorgehen nach einem Vorfall oder dem Vorwurf eines Behandlungsfehlers sind daher außerordentlich wichtig. Das Werk richtet sich an alle Mediziner, die mit dieser Thematik konfrontiert werden und zeigt praxinhalt und verständlich, mit vielen Tipps, wie man sich im Schadensfall richtig verhält. Themen sind u.a., der Umgang mit den Angehörigen, die außergerichtliche Einigung, die[...]

Features

Ärztlicher Behandlungsfehler – was tun? Ihnen als Arzt ist ein Fehler passiert oder Ihnen wird der Vorwurf eines Behandlungsfehlers gemacht. Bewahren Sie Ruhe und informieren Sie sich! Lesen Sie hier, was Sie sofort oder später tun sollten, welche Schritte Sie besser vermeiden und mit welchen Konsequenzen Sie rechnen müssen. Leicht [...]

Contents


Fields of interest

Anesthesiology; Orthopedics; Surgery; Gynecology; Medicine (general); Public Health

Target groups

Professional/practitioner

Type of publication

Professional book

More on www.springer.com/978-3-642-29639-0

Hardcover

2013. XVI, 204 S.

46,68 €

ISBN 978-3-642-29639-0

Usually dispatched within 3 to 5 business days.

See Right Through Me

An Imaging Anatomy Atlas

This atlas demonstrates all components of the body through imaging, in much the same way that a geographical atlas demonstrates components of the world. Each body system and organ is imaged in every plane using all relevant modalities, allowing the reader to gain knowledge of density and signal intensity. Areas and methods not usually featured in imaging atlases are addressed, including the cranial nerve pathways, white matter tractography, and pediatric imaging. As the emphasis is very much on high-quality images with detailed labeling, there is no significant written component; however, ‘pearl boxes’ are scattered throughout the book to provide the reader with greater insight. This[...]

Features

This atlas demonstrates all components of the body through imaging, in much the same way that a geographical atlas demonstrates components of the world. Put another way, unlike other anatomy atlases it deals directly with imaging anatomy in the form in which it presents itself to a clinician. Each body system and organ is imaged in every plane using all relevant modalities, allowing the reader to gain [...]

Contents

Surgery of the Thyroid and Parathyroid Glands

This book is a unique in-depth and comprehensive reference that covers all surgically relevant thyroid and parathyroid diseases and presents the latest information on their management. International authorities discuss operative techniques and treatments in detail and explain the rationales for their favored approaches. The topics of this second edition include the description of surgically relevant pathologies, preoperative surgical evaluation, decision making, and operative strategies for the various thyroid and parathyroid diseases. In addition, experts present the molecular basis for thyroid neoplasia, review the current understanding of the genetics of inherited thyroid and [...] Features

This book is a unique in-depth and comprehensive reference that covers all surgically relevant thyroid and parathyroid diseases and presents the latest information on their management. International authorities discuss operative techniques and treatments in detail and explain the rationales for their favored approaches. The topics of this second edition include the description of surgically relevant [...] Contents


Surgery

Target groups

Professional/practitioner

Type of publication

Contributed volume

More on www.springer.com/978-3-642-23458-3 Survival-Guide Chirurgie

Die ersten 100 Tage

Mit dem ersten Arbeitstag beginnt für den Assisten- zarzt, der eine Stelle in einer chirurgischen Klinik antritt, ein völlig neuer Lebensabschnitt mit ganz neuen Anforderungen. Der 'Survival-Guide Chirurgie' gibt kompetente Antwort auf viele praktische Fragen und Situationen des Berufsalltags, auf die das Studium nicht oder nur unzureichend vorbereitet hat, die aber für die tägliche Arbeit auf Station und in der Ambulanz von großer Bedeutung sind. 

Features


Surgery

Target groups

Graduate

Type of publication

Manual

More on www.springer.com/978-3-642-25177-1 Softcover

2013. XV, 282 S. 69 Abb. in Farbe.

37,34 €

ISBN 978-3-642-25177-1

Online orders shipping within 2-3 days.
T-Cell Lymphomas

The mature T and NK cell lymphomas are rare, comprising approximately 10% of all malignant lymphomas. The incidence of T-cell lymphoma is variable around the world, with a higher incidence compared to B-cell lymphomas in the Asian basin. While the overall incidence of B-cell lymphomas has begun to decline in the United States, the incidence of T-cell lymphomas continues to rise. Over the last decade, a number of novel agents have been developed which target T-cell lymphomas and studies have identified novel genes and pathways associated with lymphomagenesis in T-cells. This comprehensive volume examines the clinical and biological aspects of the T-cell lymphoproliferative disorders.

Features

The mature T and NK cell lymphomas are rare, comprising approximately 10% of all malignant lymphomas. The incidence of T-cell lymphoma is variable around the world, with a higher incidence compared to B-cell lymphomas in the Asian basin. While the overall incidence of B-cell lymphomas has begun to decline in the United States, the incidence of T-cell lymphomas continues to rise. Over the last decade, a [..]

Contents


Fields of interest

Hematology; Oncology; Angiology

Target groups

Professional/practitioner

Type of publication

Contributed volume

More on www.springer.com/978-1-4614-1009-6

Hardcover

2013. XV, 340 p. 68 illus., 48 in color. (Contemporary Hematology)

169.95 €

ISBN 978-1-62703-169-1

Usually dispatched within 3 to 5 business days.
The SAGES Manual of Hernia Repair

The SAGES Manual of Hernia Repair will serve as a state-of-the-art resource for hernia surgeons and residents alike who are interested in the rapidly evolving area of abdominal wall hernia repair. This manual captures and summarizes the current trends in the field, as well as describing the new ideas, programs, and strategies regarding hernia repair. Through a unique section called Current Debates in Inguinal Hernia Repair, this volume also provides readers an overview of the current opinions on many of the ongoing debates of this time period. Furthermore, the manual is lavishly illustrated, containing an array of instructional charts and photographs, and is authored by a panel of authors.

Features

The SAGES Manual of Hernia Repair will serve as a state-of-the-art resource for hernia surgeons and residents alike who are interested in the rapidly evolving area of abdominal wall hernia repair. This manual captures and summarizes the current trends in the field, as well as describing the new ideas, programs, and strategies regarding hernia repair. Through a unique section called Current Debates in Inguinal Hernia Repair, this volume also provides readers an overview of the current opinions on many of the ongoing debates of this time period. Furthermore, the manual is lavishly illustrated, containing an array of instructional charts and photographs, and is authored by a panel of authors.

Contents

Establishing a Hernia Program and Follow-up Regimen: A Complex Systems Design for Care and Improvement
- Prosthetic Choice in Open Inguinal Hernia Repair
- Prosthetic Choice in Laparoscopic Inguinal Hernia Repair
- Technique: Lichtenstein
- Technique: Plug and Patch
- Technique: Laparoscopic TEP
- Technique: Laparoscopic TAPP and IPOM
- Strangulated Inguinal Hernia
- Femoral Hernia
- Results of Laparoscopic Repair of Inguinal Hernia: Outcomes After Transabdominal Preperitoneal Inguinal Hernia Repair
- Cord Structure Complications in Inguinal Hernia Surgery
- Intraoperative

Fields of interest

Surgery; Gastroenterology; Minimally Invasive Surgery

Target groups

Professional/practitioner

Type of publication

Manual


Softcover

29.95 €
Usually dispatched within 3 to 5 business days.

Vacuum-Assisted Breast Biopsy with Mammmotome(R)

The Diagnostic Primer provides excellent photoraphic step-by-step guidance to the diagnostic procedure. It has been produced to describe the diagnostic intervention in the simplest manner possible without over-simplifying. The core of the Diagnostic Primer is the section on nodal points, where the key procedural steps are described in detail. This diagnostic guidebook provides essential reference material to physicians wishing to update their knowledge in this specific area.

Features

The Diagnostic Primer provides excellent photographic step-by-step guidance to the diagnostic procedure. It has been produced to describe the diagnostic intervention in the simplest manner possible without over-simplifying. The core of the Diagnostic Primer is the section on nodal points, where the key procedural steps are described in detail. This diagnostic guidebook provides essential reference material to physicians wishing to update their knowledge in this specific area.

Contents

Mammmotome(R) Biopsy System
- Ultrasound-guided Vacuum-Assisted Breast Biopsy with Mammmotome(R) EX
- Stereotactic-guided Vacuum-Assisted Breast Biopsy with Mammmotome(R) ST
- MRI-guided Vacuum-Assisted Breast Biopsy with Mammmotome(R) MR
- Management of difficult situations, complications, and mistakes.

Fields of interest

Surgical Oncology; Oncology; Minimally Invasive Surgery; Imaging / Radiology

Target groups

Professional/practitioner

Type of publication

Monograph

More on www.springer.com/978-3-642-34270-7

Softcover

2013. 128 p. With DVD.
29.95 €
ISBN 978-3-642-34270-7
Online orders shipping within 2-3 days.

Einführung Theoretische Meteorologie

Der Autor Michael Hantel legt besonderen Wert auf die Vermittlung grundlegender meteorologischer Begriffe, die erfahrungsgemäß im Studium als schwierig und unverständlich empfunden werden. Sein Buch ist geeignet für die Abschnitte Strahlung, Thermodynamik, Hydrodynamik, barotrope Prozesse, Grenzschicht, barokline Prozesse und globale Haushalte. Michael Hantel ist emeritierter Professor für Meteorologie an der Universität Wien.

Features

Autonomy and the Self

This volume addresses the complex interplay between the conditions of an agent’s personal autonomy and the constitution of her self in light of two influential background assumptions: a libertarian thesis according to which it is essential for personal autonomy to be able to choose freely how one’s self is shaped, on the one hand, and a line of thought following especially the seminal work of Harry Frankfurt according to which personal autonomy necessarily rests on an already sufficiently shaped self, on the other hand. Given this conceptual framework, a number of influential aspects within current debate can be addressed in a new and illuminating light: accordingly, the volume’s [...]

Features

This volume addresses the complex interplay between the conditions of an agent’s personal autonomy and the constitution of her self in light of two influential background assumptions: a libertarian thesis according to which it is essential for personal autonomy to be able to choose freely how one’s self is shaped, on the one hand, and a line of thought following especially the seminal work of Harry [...]
Essentials of Risk Theory

Risk has become one of the main topics in fields as diverse as engineering, medicine and economics, and it is also studied by social scientists, psychologists and legal scholars. This Springer Essentials version offers an overview of the in-depth handbook and highlights some of the main points covered in the Handbook of Risk Theory. The topic of risk also leads to more fundamental questions such as: What is risk? What can decision theory contribute to the analysis of risk? What does the human perception of risk mean for society? How should we judge whether a risk is morally acceptable or not? Over the last couple of decades questions like these have attracted interest from[...]

Contents

Fields of interest
Philosophy of Science; Game Theory, Economics, Social and Behavioral Sciences; Operation Research / Decision Theory; Quality Control, Reliability, Safety and Risk; Economic Theory; Philosophy of Technology

Target groups
Research

Type of publication
Brief

More on www.springer.com/978-94-007-5454-6

Husserl’s Ideen

This collection of more than two dozen essays by philosophy scholars of international repute traces the profound impact exerted by Husserl’s Meisterwerk, known in its shortened title as Ideen, whose first book was released in 1913. Published to coincide with the centenary of its original appearance, and fifty years after the second book went to print in 1952, the contributors offer a comprehensive array of perspectives on the ways in which Husserl’s concept of phenomenology influenced leading figures and movements of the last century, including, among others, Ortega y Gasset, Edith Stein, Martin Heidegger, Aron Gurvitch, Ludwig Landgrebe, Dorion Cairns, Simone de Beauvoir, Jean-Paul[...]

Features
This collection of more than two dozen essays by philosophy scholars of international repute traces the profound impact exerted by Husserl’s Meisterwerk, known in its shortened title as Ideen, whose first book was released in 1913. Published to coincide with the centenary of its original appearance, and fifty years after the second book went to print in 1952, the contributors offer a comprehensive [...]

Contents

Fields of interest
Phenomenology; History of Philosophy; Modern Philosophy

Target groups
Research

Type of publication
Contributed volume

More on www.springer.com/978-94-007-5212-2

Hardcover
2013. XIV, 496 p. (Contributions to Phenomenology, Vol. 66)
129,95 €
Temporarily unavailable, ready for shipping 4-6 weeks.

Judgement and the Epistemic Foundation of Logic

This compelling reevaluation of the relationship between logic and knowledge affirms the key role that the notion of judgement must play in such a review. The commentary repatriates the concept of judgement in the discussion, banished in recent times by the logical positivism of Wittgenstein, Hilbert and Schlick, and the Platonomism of Bolzano. The volume commences with the insights of Swedish philosopher Per Martin-Löf, the father of constructive type theory, for whom logic is a demonstrative science in which judgement is a settled feature of the landscape. His paper opens the first of four sections that examine, in turn, historical philosophical assessments of judgement and reason[...]

Features
This compelling reevaluation of the relationship between logic and knowledge affirms the key role that the notion of judgement must play in such a review. The commentary repatriates the concept of judgement in the discussion, banished in recent times by the logical positivism of Wittgenstein, Hilbert and Schlick, and the Platonomism of Bolzano. The volume commences with the insights of Swedish philosopher Per[...]

Contents
Logical Thinking in the Pyramidal Schema of Concepts: The Logical and Mathematical Elements

This new volume on logic follows a recognizable format that deals in turn with the topics of mathematical logic, moving from concepts, via definitions and inferences, to theories and axioms. However, this fresh work offers a key innovation in its ‘pyramidal’ graph system for the logical formalization of all these items. The author has developed this new methodology on the basis of original research, traditional logical instruments such as Porphyrian trees, and modern concepts of classification, in which pyramids are the central organizing concept. The pyramidal schema enables both the content of concepts and the relations between the concept positions in the pyramid to be read off. [...]

Features
This new volume on logic follows a recognizable format that deals in turn with the topics of mathematical logic, moving from concepts, via definitions and inferences, to theories and axioms. However, this fresh work offers a key innovation in its ‘pyramidal’ graph system for the logical formalization of all these items. The author has developed this new methodology on the basis of original research. [...]

Contents

Fields of interest
Logic; Mathematical Logic and Formal Languages; Mathematical Logic and Foundations

Target groups
Research

Type of publication
Monograph

More on www.springer.com/978-94-007-5300-6

Hardcover
2013. XLIV, 137 p. 10 illus. 99,95 €
ISBN 978-94-007-5300-6

Usually dispatched within 3 to 5 business days.

Norms in Technology

This book is a distinctive fusion of philosophy and technology, delineating the normative landscape that informs today’s technologies and tomorrow’s inventions. The authors examine what we deem to be the internal norms that govern our ever-expanding technical universe. Recognizing that developments in technology and engineering literally create our human future, transforming existing knowledge into tomorrow’s tools and infrastructure, they chart the normative criteria we use to evaluate novel technological artifacts: how, for example, do we judge a ‘good’ from a ‘bad’ expert system or nuclear power plant? As well as these ‘functional’ norms, and the norms that guide technological [...]

Features
This book is a distinctive fusion of philosophy and technology, delineating the normative landscape that informs today’s technologies and tomorrow’s inventions. The authors examine what we deem to be the internal norms that govern our ever-expanding technical universe. Recognizing that developments in technology and engineering literally create our human future, transforming existing knowledge into [...]
On the Death of the Pilgrim: The Postcolonial Hermeneutics of Jarava Lal Mehta

This searching examination of the life and philosophy of the twentieth-century Indian intellectual Jarava Lal Mehta details, among other things, his engagement with the oeuvres of Martin Heidegger, Hans-Georg Gadamer, and Jacques Derrida. It shows how Mehta’s sense of cross-cultural philosophy and religious thought were affected by these engagements, and maps the two key contributions Mehta made to the sum of human ideas. First, Mehta outlined what the author dubs a ‘postcolonial hermeneutics’ that uses the ‘ethnotope’ of the pilgrim to challenge the philosophical hermeneutic emphasis on supplementation and augmentation. For Mehta, the hermeneutic encounter ruptures, rather than[...]

Features
This searching examination of the life and philosophy of the twentieth-century Indian intellectual Jarava Lal Mehta details, among other things, his engagement with the oeuvres of Martin Heidegger, Hans-Georg Gadamer, and Jacques Derrida. It shows how Mehta’s sense of cross-cultural philosophy and religious thought were affected by these engagements, and maps the two key contributions Mehta made to the sum of [...]

Contents

Fields of interest
Philosophy of Religion; Regional and Cultural Studies; Migration

Target groups
Research

Type of publication
Monograph

More on www.springer.com/978-94-007-5230-6

Hardcover
2013. XI, 212 p. (Sophia Studies in Cross-cultural Philosophy of Traditions and Cultures, Vol. 3)
99,95 €
ISBN 978-94-007-5230-6
Usually dispatched within 3 to 5 business days.

Science in the Age of Baroque

This volume examines the New Science of the 17th century in the context of Baroque culture, analysing its emergence as an integral part of the high culture of the period. The collected essays explore themes common to the new practices of knowledge production and the rapidly changing culture surrounding them, as well as the obsessions, anxieties and aspirations they share, such as the foundations of order, the power and peril of mediation and the conflation of the natural and the artificial. The essays also take on the historiographical issues involved: the characterization of culture in general and culture of knowledge in particular; the use of generalizations like ‘Baroque’ and the[...]

Features
This volume examines the New Science of the 17th century in the context of Baroque culture, analysing its emergence as an integral part of the high culture of the period. The collected essays explore themes common to the new practices of knowledge production and the rapidly changing culture surrounding them, as well as the obsessions, anxieties and aspirations they share, such as the foundations [...]

Contents

Fields of interest
History of Philosophy; History; History of Science; Philosophy of Science

Target groups
Research

Type of publication
Contributed volume

More on www.springer.com/978-94-007-4806-4

Hardcover
2013. VI, 313 p. 30 illus., 5 in color. (International Archives of the History of Ideas Archives internationales d’histoire des idées, Vol. 208)
129,95 €
ISBN 978-94-007-4806-4
Usually dispatched within 3 to 5 business days.

8th International Summer School/Conference:

Let's Face Chaos through Nonlinear Dynamics

Theoretical and experimental physics, nonlinear dynamics of classical and quantum chaos, fluid dynamics and turbulence, physics of complex systems, astrodynamics and biophysics.

Contents
From the Contents: Particle and energy transport in quantum disordered and quasi-periodic chains connected to mesoscopic Fermi reservoirs. - Integrability of a family of 3-dim polynomial systems of ODEs. - Dynamics of time-dependent conformally breathing billiards. - Quantum wave package propagation through a potential step. - New potentials in discrete Schrödinger theory. - Time series analysis of turbulent and non-autonomous systems. - Knowing when to stop: How noise frees us from determinism. - Dynamics of heterogeneous populations of coupled oscillators. - Water delivery in the early Solar[...]

Fields of interest
Nonlinear Dynamics

Target groups
Research

Type of publication
Proceedings

More on www.springer.com/978-0-7354-1075-6

Softcover
139,95 €
ISBN 978-0-7354-1075-6
Temporarily unavailable, ready for shipping 4-6 weeks.
**An Introduction to the Evolution of Single and Binary Stars**

An Introduction to the Evolution of Single and Binary Stars provides physicists with an understanding of binary and single star evolution, beginning with a background and introduction of basic astrophysical concepts. Although a general treatment of stellar structure and evolution is included, the text stresses the physical processes that lead to stellar mass compact object binaries that may be sources of observable gravitational radiation. Basic concepts of astronomy, stellar structure and atmospheres, single star evolution, binary systems and mass transfer, compact objects, and dynamical systems are covered in the text. Readers will understand the astrophysics behind the populations.[...]

**Contents**


**Fields of interest**

Astrophysics and Astroparticles: Classical and Quantum Gravitation, Relativity Theory; Cosmology

**Target groups**

Upper undergraduate

**Type of publication**

Undergraduate textbook

More on www.springer.com/978-1-4419-9990-0

**Softcover**

2013, XII, 262 p. 68 illus., 31 in color. (Undergraduate Lecture Notes in Physics) 44,95 €

ISBN 978-1-4419-9990-0

Usually dispatched within 3 to 5 business days.

---

**Astrolinguistics**

**Design of a Linguistic System for Interstellar Communication Based on Logic**

In linguistics, one of the main areas of modern research involves the capabilities and possibilities of there being a “lingua cosmica,” a LINCOS, a universal language that could be used to communicate with non-human intelligences. This book touches on the area of the development and use of a “lingua universalis” for interstellar communication, but it also presents concepts that cover a broad area of linguistics. Chomsky's paradigm on universal properties of natural languages, for a long time a leading general theory of natural languages, includes the strong assumption that humans are born with some kind of universals stored in their brains. Are there universals of this kind of [...]?

**Features**

In linguistics, one of the main areas of modern research involves the capabilities and possibilities of there being a “lingua cosmica,” a LINCOS, a universal language that could be used to communicate with non-human intelligences. This book touches on the area of the development and use of a “lingua universalis” for interstellar communication, but it also presents concepts that cover a broad area of [...]?

**Contents**


**Fields of interest**

Astrolinguistics: Space Sciences; Theoretical Linguistics; Philosophy of Language

**Target groups**

Research

**Type of publication**

Monograph

More on www.springer.com/978-1-4614-5467-0

**Softcover**

2013, XV, 248 p. 4 illus. in color. 99,95 €

ISBN 978-1-4614-5467-0

Usually dispatched within 3 to 5 business days.

---

**Biophysics and Structure to Counter Threats and Challenges**

This ASI brought together a diverse group of experts who span virology, biology, biophysics, chemistry, physics and engineering. Prominent lecturers representing world renowned scientists from nine (9) different countries, and students from around the world representing eighteen (18) countries, participated in the ASI organized by Professors Joseph Puglisi (Stanford University, USA) and Alexander Arseniev (Moscow, RU). The central hypothesis underlying this ASI was that interdisciplinary research, merging principles of physics, chemistry and biology, can drive new discovery in detecting and fighting chemical and bioterorism agents, lead to cleaner environments and improved energy [...]?

**Features**

This ASI brought together a diverse group of experts who span virology, biology, biophysics, chemistry, physics and engineering. Prominent lecturers representing world renowned scientists from nine (9) different countries, and students from around the world representing eighteen (18) countries, participated in the ASI organized by Professors Joseph Puglisi (Stanford University, USA) and Alexander Arseniev [...]?

**Contents**

From the Contents: Macromolecular Models by Single Molecule FRET.- System-specific scoring Functions; Application to Guanine-containing Ligands and Thrombin.- Large DNA Template Dependent Error Variation during Transcription.- Structures of Novel HIV-inactivating Lectins.- Fluorescence Resonance Energy Transfer Studies of Structure and Dynamics in Nucleic Acids.- An Introduction to Macromolecular Crystallography through Parable and Analogy.- Using NMR to determine the Conformation of the HIV reverse Transcription Initiation Complex.- Approaches to Protein-ligand Structure Determination; [...]?

**Fields of interest**

Biophysics and Biological Physics; Solid State Physics; Crystallography; Biotechnology; Theoretical and Computational Chemistry

**Target groups**

Graduate

**Type of publication**

Proceedings

More on www.springer.com/978-94-007-4922-1

**Hardcover**

2013, X, 169 p. 68 illus. (NATO Science for Peace and Security Series B: Physics and Biophysics) 139,95 €

ISBN 978-94-007-4922-1

Usually dispatched within 3 to 5 business days.

**Softcover**

2013, X, 169 p. 68 illus. (NATO Science for Peace and Security Series B: Physics and Biophysics) 69,95 €


Usually dispatched within 3 to 5 business days.
Cobalt Blues
The Story of Leonard Grimmett, the Man Behind the First Cobalt-60 Unit in the United States

For the last half of the 20th century, cobalt-60 units were the mainstay of radiation treatments for cancer. This book describes the development of the first cobalt-60 unit in the United States and the man behind it, Leonard Grimmett. Conceptually conceived before World War II it only became possible because of the development of nuclear reactors during the war. The initial idea was to replace the radium in the contemporary units of the time with cobalt-60, but with the realization that the reactors could produce much more cobalt-60 than originally thought the design of the cobalt-60 unit was drastically changed to take advantage that the application of the inverse square law to [...]

Features
For the latter half of the 20th century, cobalt-60 units were the mainstay of radiation treatments for cancer. Cobalt Blues describes the development of the first cobalt-60 unit in the United States and the man behind it, Leonard Grimmett. Conceptually conceived before World War II, it only became possible because of the development of nuclear reactors during the war. Although Grimmett conceived of [...]

Contents

Fields of interest
Medical and Radiation Physics; History of Science; Diagnostic Radiology; Cancer Research

Target groups
Popular/general

Type of publication
Monograph

More on www.springer.com/978-3-642-33423-8

Hardcover
2013, XVI, 225 p. 59 illus., 19 in color, (Springer Theses)
99,95 €
ISBN 978-3-642-33423-8
Usually dispatched within 3 to 5 business days.

Decoding Complexity
Uncovering Patterns in Economic Networks

Today it appears that we understand more about the universe than about our interconnected socioeconomic world. In order to uncover organizational structures and novel features in these systems, we present the first comprehensive complex systems analysis of real-world ownership networks. This effort lies at the interface between the realms of economics and the emerging field loosely referred to as complexity science. The structure of global economic power is reflected in the network of ownership ties of companies and the analysis of such ownership networks has possible implications for market competition and financial stability. Thus this work presents powerful new tools for the study [...]

Features
Today it appears that we understand more about the universe than about our interconnected socioeconomic world. In order to uncover organizational structures and novel features in these systems, we present the first comprehensive complex systems analysis of real-world ownership networks. This effort lies at the interface between the realms of economics and the emerging field loosely referred to as complexity science. The structure of global economic power is reflected in the network of ownership ties of companies and the analysis of such ownership networks has possible implications for market competition and financial stability. Thus this work presents powerful new tools for the study [...]

Contents

Fields of interest
Complex Networks; Economic Theory; Game Theory, Economics, Social and Behavioral Sciences; Complex Systems; Complexity

Target groups
Research

Type of publication
Monograph

More on www.springer.com/978-3-642-33423-8

Hardcover
2013, XVI, 225 p. 59 illus., 19 in color, (Springer Theses)
99,95 €
ISBN 978-3-642-33423-8
Usually dispatched within 3 to 5 business days.

Differential Geometry and Mathematical Physics
Part I. Manifolds, Lie Groups and Hamiltonian Systems
Starting from undergraduate level, this book systematically develops the basics of - Analysis on manifolds, Lie groups and G-manifolds (including equivariant dynamics) - Symplectic algebra and geometry, Hamiltonian systems, symmetries and reduction, - Integrable systems, Hamilton-Jacobi theory (including Morse families, the Maslov class and caustics). The first item is relevant for virtually all areas of mathematical physics, while the second item provides the basis of Hamiltonian mechanics. The last item introduces to important special areas. Necessary background knowledge on topology is provided in an appendix. The aim of this book is to enable the reader to access research [...]

Features
Starting from an undergraduate level, this book systematically develops the basics of - Analysis on manifolds, vector bundles, vector fields and differential forms - Lie groups and Lie group actions - Linear symplectic algebra and symplectic geometry - Hamiltonian systems, symmetries and reduction, integrable systems and Hamilton-Jacobi theory [...]

Contents
1 Differentiable manifolds. - 2 Vector bundles. - 3 Vector fields. - 4 Differential forms. - 5 Lie groups. - 6 Lie group actions. - 7 Linear symplectic algebra. - 8 Symplectic geometry. - 9 Hamiltonian systems. - 10 Symmetries. - 11 Integrability. - 12 Hamilton-Jacobi theory. - References

Fields of interest
Mathematical Methods in Physics; Global Analysis and Analysis on Manifolds; Mechanics; Topological Groups, Lie Groups; Differential Geometry

Target groups
Research

Type of publication
Monograph

More on www.springer.com/978-94-007-5344-0

Hardcover
2013, XIII, 759 p. 39 illus. (Theoretical and Mathematical Physics)
89,95 €
ISBN 978-94-007-5344-0
Usually dispatched within 3 to 5 business days.
Dirac Spectra in Dense QCD

Gaining a theoretical understanding of the properties of ultra-relativistic dense matter has been one of the most important and challenging goals in quantum chromodynamics (QCD). In this thesis, the author analyzes dense quark matter in QCD with gauge group SU(2) using low-energy effective theoretical techniques and elucidates a novel connection between statistical properties of the Dirac operator spectrum at high baryon chemical potential and a special class of random matrix theories. This work can be viewed as an extension of a similar correspondence between QCD and matrix models which was previously known only for infinitesimal chemical potentials. In future numerical simulations, the author analyzes dense quark matter in QCD with gauge group SU(2) using low-energy effective theoretical techniques and elucidates a novel connection between statistical properties of the Dirac operator spectrum at high baryon chemical potential.

Features
Gaining a theoretical understanding of the properties of ultra-relativistic dense matter has been one of the most important and challenging goals in quantum chromodynamics (QCD). In this thesis, the author analyzes dense quark matter in QCD with gauge group SU(2) using low-energy effective theoretical techniques and elucidates a novel connection between statistical properties of the Dirac operator spectrum at high baryon chemical potential and a special class of random matrix theories. This work can be viewed as an extension of a similar correspondence between QCD and matrix models which was previously known only for infinitesimal chemical potentials. In future numerical simulations, the author analyzes dense quark matter in QCD with gauge group SU(2) using low-energy effective theoretical techniques and elucidates a novel connection between statistical properties of the Dirac operator spectrum at high baryon chemical potential.

Contents
Introduction.- QCD with Chemical Potential and Matrix Model.- Dirac Operator in Dense QCD.- Threefold Way at High Density.- Conclusions.

Fields of interest
Quantum Field Theories, String Theory; Elementary Particles, Quantum Field Theory; Mathematical Physics; Energy (general)

Target groups
Research

Type of publication
Monograph

More on www.springer.com/978-4-431-54164-6

Usually dispatched within 3 to 5 business days.

Fundamental Tests of Physics with Optically Trapped Microspheres

Fundamental Tests of Physics with Optically Trapped Microspheres details experiments on studying the Brownian motion of an optically trapped microsphere with ultrahigh resolution and the cooling of its motion towards the quantum ground state. Glass microspheres were trapped in water, air, and vacuum with optical tweezers; and a detection system that can monitor the position of a trapped microsphere with Angstrom spatial resolution and microsecond temporal resolution was developed to study the Brownian motion of a trapped microsphere in air over a wide range of pressures. The instantaneous velocity of a Brownian particle, in particular, was studied for the very first time, and the...

Features
Fundamental Tests of Physics with Optically Trapped Microspheres details experiments on studying the Brownian motion of an optically trapped microsphere with ultrahigh resolution and the cooling of its motion towards the quantum ground state. Glass microspheres were trapped in water, air, and vacuum with optical tweezers; and a detection system that can monitor the position of a trapped microsphere with Angstrom spatial resolution and microsecond temporal resolution was developed to study the Brownian motion of a trapped microsphere in air over a wide range of pressures. The instantaneous velocity of a Brownian particle, in particular, was studied for the very first time, and the...

Contents

Fields of interest
Thermodynamics; Quantum Physics; Nanoscale Science and Technology; Low Temperature Physics; Statistical Physics, Dynamical Systems and Complexity

Target groups
Research

Type of publication
Monograph


Usually dispatched within 3 to 5 business days.

Handbook of Engineering Acoustics

This book examines the physical background of engineering acoustics, focusing on empirically obtained engineering experience as well as on measurement techniques and engineering methods for prognostics. Its goal is not only to describe the state of art of engineering acoustics but also to give practical help to engineers in order to solve acoustic problems. It deals with the origin, the transmission and the methods of the abating different kinds of airborne and structure-borne sounds caused by various mechanisms – from traffic to machinery and flow-induced sound. In addition the modern aspects of room and building acoustics, as well as psychoacoustics and active noise control, are covered.

Features
This book examines the physical background of engineering acoustics, focusing on empirically obtained engineering experience as well as on measurement techniques and engineering methods for prognostics. Its goal is not only to describe the state of art of engineering acoustics but also to give practical help to engineers in order to solve acoustic problems. It deals with the origin, the transmission and the...

Contents

Fields of interest
Acoustics; Vibration, Dynamical Systems, Control; Engineering Design; Building Construction, HVAC; Refrigeration, Signal, Image and Speech Processing; Noise Control

Target groups
Professional/practitioner

Type of publication
Handbook

More on www.springer.com/978-3-540-24052-5

Hardcover
2013. XII, 702 p. 435 illus. 199,95 €
Online orders shipping within 2-3 days.
Laboratory Experiments in Physics for Modern Astronomy
With Comprehensive Development of the Physical Principles

This book presents experiments which will teach physics relevant to astronomy. The astronomer, as instructor, frequently faces this need when his college or university has no astronomy department and any astronomy course is taught in the physics department. The physicist, as instructor, will find this intellectually appealing when faced with teaching an introductory astronomy course. From these experiments, the student will acquire important analytical tools, learn physics appropriate to astronomy, and experience instrument calibration and the direct gathering and analysis of data. Experiments that can be performed in one laboratory session as well as semester-long observation [...] 

Features
This book presents experiments which will teach physics relevant to astronomy. The astronomer, as instructor, frequently faces this need when his college or university has no astronomy department and any astronomy course is taught in the physics department. The physicist, as instructor, will find this intellectually appealing when faced with teaching an introductory astronomy course. From these experiments, [...] 

Contents

Fields of interest
Astronomy, Observations and Techniques; Astronomy, Astrophysics and Cosmology

Target groups
Upper undergraduate

Type of publication
Undergraduate textbook

More on www.springer.com/978-3-642-28358-1

Hardcover
2013. XXX, 570 p. 246 illus., 9 in color.
69,95 €
ISBN 978-3-642-3310-1

Usually dispatched within 3 to 5 business days.

J.D. Majumdar, Indian Institute of Technology, Kharagpur, West Bengal, India; I. Manaa, Indian Institute of Technology, Kharagpur, West Bengal, India (Eds.)

Liquid Crystalline Semiconductors
Materials, properties and applications

This is an exciting stage in the development of organic electronics. It is no longer an area of purely academic interest as increasingly real applications are being developed, some of which are beginning to come on-stream. Areas that have already been commercially developed or which are under intensive development include organic light emitting diodes (for flat panel displays and solid state lighting), organic photovoltaic cells, organic thin film transistors (for smart tags and flat panel displays) and sensors. Within the family of organic electronic materials, liquid crystals are relative newcomers. The first electronically conducting liquid crystals were reported in 1988 but already [...] 

Features
This is an exciting stage in the development of organic electronics. It is no longer an area of purely academic interest as increasingly real applications are being developed, some of which are beginning to come on-stream. Areas that have already been commercially developed or which are under intensive development include organic light emitting diodes (for flat panel displays and solid state lighting), [...] 

Contents

Fields of interest
Semiconductors; Optical and Electronic Materials; Soft and Granular Matter, Complex Fluids and Microfluidics; Surface and Interface Science, Thin Films; Electronic Circuits and Devices; Surfaces and Interfaces, Thin Films

Target groups
Research

Type of publication
Contributed volume


Hardcover
2013. IX, 272 p. 244 illus., 6 in color. (Springer Series in Materials Science, Vol. 169)
129,95 €

Usually dispatched within 3 to 5 business days.
Mössbauer Spectroscopy

Tutorial Book

Tutorials on Mössbauer Spectroscopy Since the discovery of the Mössbauer Effect many excellent books have been published for researchers and for doctoral and master level students. However, there appears to be no textbook available for final year bachelor students, nor for people working in industry who have received only basic courses in classical mechanics, electromagnetism, quantum mechanics, chemistry and materials science. The challenge of this book is to give an introduction to Mössbauer Spectroscopy for this level. The ultimate goal of this book is to give this audience not only a scientific introduction to the technique, but also to demonstrate in an attractive way the [...] Features

Tutorials on Mössbauer Spectroscopy Since the discovery of the Mössbauer Effect many excellent books have been published for researchers and for doctoral and master level students. However, there appears to be no textbook available for final year bachelor students, nor for people working in industry who have received only basic courses in classical mechanics, electromagnetism, quantum mechanics, [...] Contents


Fields of interest

Particle and Nuclear Physics; Atomic/Molecular Structure and Spectra; Spectroscopy / Spectrometry; Geophysics / Geodesy; Characterization and Evaluation of Materials

Target groups

Upper undergraduate

Type of publication

Graduate/advanced undergraduate textbook

More on www.springer.com/978-3-642-32219-8

Hardcover

2013, IX, 308 p. 194 illus.
59,95 €
ISBN 978-3-642-32219-8

Usually dispatched within 3 to 5 business days.

Non-Equilibrium Thermodynamics in Multiphase Flows

Non-equilibrium thermodynamics is a general framework that allows the macroscopic description of irreversible processes. This book introduces non-equilibrium thermodynamics and its applications to the rheology of multiphase flows. The subject is relevant to graduate students in chemical and mechanical engineering, physics and material science. This book is divided into two parts. The first part presents the theory of non-equilibrium thermodynamics, reviewing its essential features and showing, when possible, some applications. The second part of this book deals with how the general theory can be applied to model multiphase flows and, in particular, how to determine their constitutive [...] Features

Non-equilibrium thermodynamics is a general framework that allows the macroscopic description of irreversible processes. This book introduces non-equilibrium thermodynamics and its applications to the rheology of multiphase flows. The subject is relevant to graduate students in chemical and mechanical engineering, physics and material science. This book is divided into two parts. The first part [...] Contents

From the Contents: Microscopic reversibility.- The Langevin equation.- The Fokker-Planck equation.- Stochastic differential calculus.- The path integral.- Balance equations.- The constitutive relations.- Multiphase Flows.- Effective constitutive relations.- Multiple scale analysis.

Fields of interest

Thermodynamics; Physical Chemistry; Soft and Granular Matter; Complex Fluids and Microfluidics; Engineering Fluid Dynamics; Statistical Physics; Dynamical Systems and Complexity; Polymer Sciences

Target groups

Graduate

Type of publication

Graduate/advanced undergraduate textbook

More on www.springer.com/978-94-007-5460-7

Hardcover

2013, XIII, 269 p. 5 illus. (Soft and Biological Matter) 69,95 €
ISBN 978-94-007-5460-7

Usually dispatched within 3 to 5 business days.

Nucleation Theory

One of the most striking phenomena in condensed matter physics is the occurrence of abrupt transitions in the structure of a substance at certain temperatures or pressures. These are first order phase transitions, and examples such as the freezing of water are familiar in everyday life. The conditions at which the transformation takes place can sometimes vary. For example, the freezing point of water is not always 0°C, but the liquid can be supercooled considerably if it is pure enough and treated carefully. The reason for this phenomenon is nucleation. This monograph covers all major available routes of theoretical research of nucleation phenomena (phenomenological models,...) Features

This monograph covers all major available routes of theoretical research of nucleation phenomena—phenomenological models, semi-phenomenological theories, density functional theories and microscopic approaches—with emphasis on the formation of liquid droplets from a metastable vapor. It also illustrates the application of these various approaches to experimentally relevant [...] Contents

Thermodynamics of a two-phase system.—Classical nucleation theory.—Nucleation theorems.—Density functional theory.—Extended modified drop model and dynamic nucleation theory.—Semi-phenomenological approach: mean-field kinetic nucleation theory.—Computer simulations of nucleation.—Nucleation at high supersaturations.—Argon nucleation.—Binary nucleation.—General case.—Binary nucleation with supercritical fluids: coarse-grained nucleation theory.—Multi-component nucleation.—Heterogeneous nucleation.

Fields of interest

Soft and Granular Matter; Complex Fluids and Microfluidics; Physical Chemistry; Theoretical, Mathematical and Computational Physics; Classical Continuum Physics

Target groups

Research

Type of publication

Monograph


Softcover

2013, XV, 316 p. 83 illus. (Lecture Notes in Physics, Vol. 860) 44,95 €

Usually dispatched within 3 to 5 business days.
Optical Methods and Instrumentation in Brain Imaging and Therapy

This book provides a comprehensive up-to-date review of optical approaches used in brain imaging and therapy. It covers a variety of imaging approaches including diffuse optical imaging, laser speckle imaging, photoacoustic imaging and optical coherence tomography. A number of laser-based therapeutic techniques are reviewed, including photodynamic therapy, fluorescence guided resection and photothermal therapy. Fundamental principles and instrumentation are discussed for each imaging and therapeutic approach.

Features
This book provides a comprehensive up-to-date review of optical approaches used in brain imaging and therapy. It covers a variety of imaging techniques including diffuse optical imaging, laser speckle imaging, photoacoustic imaging and optical coherence tomography. A number of laser-based therapeutic approaches are reviewed, including photodynamic therapy, fluorescence guided resection and photothermal therapy [..]

Contents

Fields of interest
Biophysics and Biological Physics; Biomedical Engineering; Imaging / Radiology; Neurosciences; Diagnostic Radiology; Laser Technology and Physics; Photonics

Target groups
Research

Type of publication
Monograph


Hardcover
2013. XII, 277 p. 87 illus., 67 in color. (Bioanalysis, Vol. 3) 129.95 €

Usually dispatched within 3 to 5 business days.

Photon Physics at the LHC

A Measurement of Inclusive Isolated Prompt Photon Production at \( \sqrt{s} = 7 \text{ TeV} \) with the ATLAS Detector

This thesis reports on the first studies of Standard Model photon production at the Large Hadron Collider (LHC) using the ATLAS detector. Standard Model photon production is a large background in the search for Higgs bosons decaying into photon pairs, and is thus critical to understand. The thesis explains the techniques used to reconstruct and identify photon candidates using the ATLAS detector, and describes a measurement of the production cross section for isolated prompt photons. The thesis also describes a search for the Higgs boson in which the analysis techniques used in the measurement are exploited to reduce and estimate non-prompt backgrounds in diphoton events.

Features
This thesis reports on the first studies of Standard Model photon production at the Large Hadron Collider (LHC) using the ATLAS detector. Standard Model photon production is a large background in the search for Higgs bosons decaying into photon pairs, and is thus critical to understand. The thesis explains the techniques used to reconstruct and identify photon candidates using the ATLAS detector, [...]

Contents

Fields of interest
Elementary Particles, Quantum Field Theory; Particle and Nuclear Physics; Measurement Science, Instrumentation

Target groups
Research

Type of publication
Monograph

More on www.springer.com/978-3-642-33061-2

Hardcover
ISBN 978-3-642-33061-2

Currently out of stock.

Physics of Semiconductors

30th International Conference on the Physics of Semiconductors

ICPS is the largest and most comprehensive conference on the physics of semiconductors being held biannually. It covers the entire spectrum of semiconductor physics including novel semiconducting materials such as graphene and bio-based materials. The most exciting new findings in the fields of pure and applied semiconductor physics are reported and discussed at ICPS.

Features
ICPS is the largest and most comprehensive conference on the physics of semiconductors being held biannually. It covers the entire spectrum of semiconductor physics including novel semiconducting materials such as graphene and bio-based materials. The most exciting new findings in the fields of pure and applied semiconductor physics are reported and discussed at ICPS.

Fields of interest
Semiconductors; Condensed Matter Physics; Classical Electrodynamics, Wave Phenomena; Magnetism, Magnetic Materials

Target groups
Research

Type of publication
Proceedings


Softcover

Currently out of stock.
Physics of Ultra-Cold Matter

Atomic Clouds, Bose-Einstein Condensates and Rydberg Plasmas

The advent of laser cooling of atoms led to the discovery of ultra-cold matter, with temperatures below liquid Helium, which displays a variety of new physical phenomena. Physics of Ultra-Cold Matter gives an overview of this recent area of science, with a discussion of its main results and a description of its theoretical concepts and methods. Ultra-cold matter can be considered in three distinct phases: ultra-cold gas, Bose-Einstein condensate, and Rydberg plasmas. This book gives an integrated view of this new area of science at the frontier between atomic physics, condensed matter, and plasma physics. It describes these three distinct phases while exploring the differences, as well [...]
Principles of Physics
For Scientists and Engineers
This textbook presents a basic course in physics to teach mechanics, mechanical properties of matter, thermal properties of matter, elementary thermodynamics, electrodynamics, electricity, magnetism, light and optics and sound. It includes simple mathematical approaches to each physical principle, and all examples and exercises are selected carefully to reinforce each chapter. In addition, answers to all exercises are included that should ultimately help solidify the concepts in the minds of the students and increase their confidence in the subject. Many boxed features are used to separate the examples from the text and to highlight some important physical outcomes and rules. The [...]

Features
This textbook presents a basic course in physics to teach mechanics, mechanical properties of matter, thermal properties of matter, elementary thermodynamics, electrodynamics, electricity, magnetism, light and optics and sound. It includes simple mathematical approaches to each physical principle, and all examples and exercises are selected carefully to reinforce each chapter. In addition, answers to all [...] Contents

Fields of interest
Classical Continuum Physics; Mechanics; Classical Electrodynamics, Wave Phenomena; Magnetism, Magnetic Materials; Mechanical Engineering; Electrical Engineering

Target groups
Lower undergraduate

Type of publication
Undergraduate textbook

More on www.springer.com/978-3-642-30689-1

Quantum Physics Without Quantum Philosophy
It has often been claimed that without drastic conceptual innovations a genuine explanation of quantum interference effects and quantum randomness is impossible. This book concerns Bohmian mechanics, a simple particle theory that is a counterexample to such claims. The gentle introduction and other contributions collected here show how the phenomena of non-relativistic quantum mechanics, from Heisenberg’s uncertainty principle to non-commuting observables, emerge from the Bohmian motion of particles, the natural particle motion associated with Schrödinger’s equation. This book will be of value to all students and researchers in physics with an interest in the meaning of quantum theory[...]

Features
It has often been claimed that without drastic conceptual innovations a genuine explanation of quantum interference effects and quantum randomness is impossible. This book concerns Bohmian mechanics, a simple particle theory that is a counterexample to such claims. The gentle introduction and other contributions collected here show how the phenomena of non-relativistic quantum mechanics, from Heisenberg’s[...]

Contents

Fields of interest
Quantum Physics; Philosophy of Science

Target groups
Research

Type of publication
Monograph

More on www.springer.com/978-3-642-23025-7

Softcover
2013. XVIII, 1067 p. 975 illus. (Lecture Notes in Physics, Vol. 863)
69,95 €
ISBN 978-3-642-33035-3

Usually dispatched within 3 to 5 business days.

Quantum Gravity and Quantum Cosmology
Quantum gravity has developed into a fast-growing subject in physics and it is expected that probing the high-energy and high-curve regimes of gravitating systems will shed some light on how to eventually achieve an ultraviolet complete quantum theory of gravity. Such a theory would provide the much-needed information about fundamental problems of classical gravity, such as the initial big-bang singularity, the cosmological constant problem, Planck scale physics and the early-time inflationary evolution of our Universe. While in the first part of this book concepts of quantum gravity are introduced and approached from different angles, the second part discusses these theories in[...]

Features
Quantum gravity has developed into a fast-growing subject in physics and it is expected that probing the high-energy and high-curve regimes of gravitating systems will shed some light on how to eventually achieve an ultraviolet complete quantum theory of gravity. Such a theory would provide the much-needed information about fundamental problems of classical gravity, such as the initial big-bang[...]

Contents
Part I Quantum Gravity.- Part II Quantum Cosmology.- Part III Observational Status.- Index.

Fields of interest
Classical and Quantum Gravitation, Relativity Theory; Astronomy, Astrophysics and Cosmology; Quantum Field Theories, String Theory; Mathematical Applications in the Physical Sciences

Target groups
Research

Type of publication
Monograph

More on www.springer.com/978-3-642-30689-1

Hardcover
2013. XVII, 284 p. 9 illus. 109,95 €
ISBN 978-3-642-30689-1

Usually dispatched within 3 to 5 business days.
Scientific Astrophotography

How Amateurs Can Generate and Use Professional Imaging Data

Scientific Astrophotography is intended for those amateur astronomers who are looking for new challenges, once they have mastered visual observing and the basic imaging of various astronomical objects. It will also be a useful reference for scientifically inclined observers who want to learn the fundamentals of astrophotography with a firm emphasis on the discipline of scientific imaging. This book is not about making beautiful astronomical images; it is about recording astronomical images that are scientifically rigorous and from which accurate data can be extracted. This book is unique in that it gives readers the skills necessary for obtaining excellent images for science.[...]

Features

Scientific Astrophotography is a work for those amateur astronomers looking for new challenges, once they have mastered visual observing and the basic imaging of various astronomical objects. It is a wonderful reference for scientifically inclined observers who want to learn the fundamentals of astrophotography with a firm emphasis on the discipline of scientific imaging. This book is a wealth.[...]

Contents


Fields of interest

Astronomy, Observations and Techniques; Popular Science in Astronomy; Image Processing and Computer Vision; Photography

Target groups

Popular/general

Type of publication

Popular science


Softcover

2013, XXX, 333 p. 97 illus., 46 in color. (Patrick Moore's Practical Astronomy Series)

44,95 €


Usually dispatched within 3 to 5 business days.

Solar and Stellar Dynamos

Saas-Fee Advanced Course 39 Swiss Society for Astrophysics and Astronomy

Astrophysical dynamos are at the heart of cosmic magnetic fields of a wide range of scales, from planets and stars to entire galaxies. This book presents a thorough, step-by-step introduction to solar and stellar dynamos. Looking first at the ultimate origin of cosmic seed magnetic fields, the antagonists of field amplification are next considered: resistive decay, flux expulsion, and flows ruled out by antidynamo theorems. Two kinematic flows that can act as dynamos are then studied: the Roberts cell and the CP-flow. Mean-field electrodynamics and derivation of the mean-field dynamo equations lead to the alpha Omega-dynamo, the flux transport dynamo, and dynamos based on the[...]

Features

Astrophysical dynamos are at the heart of cosmic magnetic fields of a wide range of scales, from planets and stars to entire galaxies. This book presents a thorough, step-by-step introduction to solar and stellar dynamos. Looking first at the ultimate origin of cosmic seed magnetic fields, the antagonists of field amplification are next considered: resistive decay, flux expulsion, and flows ruled out by[...]

Contents


Fields of interest

Astrophysics and Astrophotopics; Plasma Physics; Classical Electrodynamics, Wave Phenomena; Magnetism, Magnetic Materials; Nonlinear Dynamics

Target groups

Graduate

Type of publication

Monograph

More on www.springer.com/978-3-642-32092-7

Hardcover

2013, XV, 237 p. 79 illus., 38 in color. (Saas-Fee Advanced Courses, Vol. 39)

69,95 €

ISBN 978-3-642-32092-7

Usually dispatched within 3 to 5 business days.

Statistical Physics of Nanoparticles in the Gas Phase

Thermal processes are ubiquitous and an understanding of thermal phenomena is essential for a complete description of the physics of nanoparticles, both for the purpose of modeling the dynamics of the particles and for the correct interpretation of experimental data. This book has the twofold aim to present coherently the relevant results coming from the recent scientific literature and to guide the readers through the process of deriving results, enabling them to explore the limits of the mathematical approximations and test the power of the method. The book is focused on the fundamental properties of nanosystems in the gas phase. For this reason there is a strong emphasis on[...]

Features

Thermal processes are ubiquitous and an understanding of thermal phenomena is essential for a complete description of the physics of nanoparticles, both for the purpose of modeling the dynamics of the particles and for the correct interpretation of experimental data. This book has the twofold aim to present coherently the relevant results coming from the recent scientific literature and to guide the[...]

Contents

The relation between classical and quantum statistics.- Thermal properties of vibrations.- Rate constants for emission of atoms, electrons and photons.- The evaporative ensemble.- Abundance distributions; large scale features.- Molecular dynamics and Monte Carlo simulations.- Thermal excitation of valence electrons.- He droplets.

Fields of interest

Quantum Gases and Condensates; Atomic/Molecular Structure and Spectra; Statistical Physics, Dynamical Systems and Complexity; Thermodynamics; Nanoscience and Technology

Target groups

Graduate

Type of publication

Monograph

More on www.springer.com/978-94-007-5838-4

Hardcover


129,95 €

ISBN 978-94-007-5838-4

Usually dispatched within 3 to 5 business days.
D. Lunan, Glasgow, UK

The Stones and the Stars
Building Scotland’s Newest Megalith

There are at least 48 identified prehistoric stone circles in Scotland. In truth, very little is known about the people who erected them, and ultimately about what the stone circles were for. Most stone circles are astronomically aligned, which has led to the modern debate about why the alignment was significant. The megaliths certainly represented an enormous cooperative effort, would at the very least have demonstrated power and wealth, and being set away from any dwellings probably served a ceremonial, or perhaps religious, purpose. Observations at the site of the stone circles, of solar, lunar, and stellar events, have already cast light on some of the questions about the [...]

Features
There are at least 48 identified prehistoric stone circles in Scotland. In truth, very little is known about the people who erected them, and ultimately about what the stone circles were for. Most stone circles are astronomically aligned, which has led to the modern debate over the significance of the alignments. The megaliths certainly represented an enormous cooperative effort, would at the very least [...]

Contents

Fields of interest
Astronomy, Observations and Techniques; Popular Science in Astronomy; Cultural Heritage; Geology; Archaeology

Target groups
Popular/general

Type of publication
Popular science

More on www.springer.com/978-1-4614-5353-6

Softcover
2013. XIX, 324 p. 190 illus., 114 in color. (Astronomers’ Universe)
34,95 €
ISBN 978-1-4614-5353-6
Usually dispatched within 3 to 5 business days.

B.B. Nath, Raman Research Institute, Bangalore, India

The Story of Helium and the Birth of Astrophysics

What if one of the most thrilling stories in the history of science turned out to be wrong? Can urban legends creep into the hallowed grounds of scientific history? As incredible as it may sound, the story of one of the most important elements in modern times – helium – has been often misrepresented in books, encyclopedias, and online sources, despite the fact that archival materials tell a different story. Open the entry for Helium in any encyclopedia and you will read a false story that has been repeated over the years. ‘Encyclopaedia Britannica’, for example, says that helium was discovered by the French astronomer Pierre Janssen while observing a total solar eclipse from India in [...]

Features
Biman Nath The Story of Helium and the Birth of Astrophysics Helium was the first element ever discovered by astronomers. Its presence was first indicated in the Sun and not on Earth. Further, its discovery marked the birth of the new science of astrophysics. However, it turns out that the events leading to the discovery of helium have been rather misrepresented in books, journals, and even [...]

Contents
Chapter 1: The Unbearable Lightness of a ‘Noble’ Element.- Chapter 2: From Alchemy to Chemistry.- Chapter 3: From Chemistry to Stars.- Chapter 4: Father Secchi, the Priest Who Became an Astronomer.- Chapter 5: Jansse, A Traveling Scientist.- Chapter 6: Norman Lockyer, Clerk Turned Astronomer.- Chapter 7: James F. Tennant, Soldier Turned Astronomer.- Chapter 8: Gunter, the Small Town at the Center of Attention.- Chapter 9: The Perpetual Eclipse of 1868.- Chapter 10: Lockyer and His Cosmic Hieroglyphics.- Chapter 11: The Ghost Element That Refused To Be Identified.- Chapter 12: Helium on [...]

Fields of interest
Astronomy, Astrophysics and Cosmology; Popular Science in Astronomy; History of Science; Quantum Gases and Condensates

Target groups
Popular/general

Type of publication
Popular science

More on www.springer.com/978-1-4614-5362-8

Hardcover
2013. XXIX, 153 p. 94 illus., 21 in color. (Springer Theses)
99,95 €
Usually dispatched within 3 to 5 business days.

Y. Li, Wake Forest University, Winston-Salem, NC, USA

Three Dimensional Solar Cells Based on Optical Confinement Geometries

Three dimensional (3D) optical geometries are becoming more common in the literature and lexicon of solar cells. Three Dimensional Solar Cells Based on Optical Confinement Geometries describes and reveals the basic operational nuances of 3D photovoltaics using three standard tools: Equivalent Circuit Models, Ray Tracing Optics in the Cavity, and Absorber Spectral Response. These tools aid in understanding experimental absorption profile and device parameters including Isc, Voc, Fill Factor, and EQE. These methods also apply to individual optical confinement geometry device, integrated optical confinement geometry device, and hybrid optical confinement geometry device. Additionally, [...]

Features
Three dimensional (3D) optical geometries are becoming more common in the literature and lexicon of solar cells. Three Dimensional Solar Cells Based on Optical Confinement Geometries describes and reveals the basic operational nuances of 3D photovoltaics using three standard tools: Equivalent Circuit Models, Ray Tracing Optics in the Cavity, and Absorber Spectral Response. These tools aid in [...]

Contents

Fields of interest
Applied Optics, Optoelectronics, Optical Devices; Energy Technology; Semiconductors; Energy Systems; Renewable and Green Energy

Target groups
Research

Type of publication
Monograph

More on www.springer.com/978-1-4614-5362-8

Hardcover
2013. XIX, 153 p. 94 illus., 21 in color. (Springer Theses)
99,95 €
Usually dispatched within 3 to 5 business days.
Ein Gedächtnis wie ein Elefant?
Tipps und Tricks gegen das Vergessen

Humorvoll geschrieben und bestückt mit zahlreichen Beispielen bietet dieses heitere und zugleich lehrreiche Werk einen Überblick über die unterschiedlichen Bereiche der Gedächtnisforschung und Methoden zur Steigerung der Gedächtnisleistung. Überraschende Resultate aus zahlreichen psychologischen Experimenten räumen mit falschen Vorstellungen zum Gedächtnistraining und mit den passenden Strategien für den jeweiligen Gedächtnistyp abgerundet.

Features
Humorvoll geschrieben und bestückt mit zahlreichen Beispielen bietet dieses heitere und zugleich lehrreiche Werk einen Überblick über die unterschiedlichen Bereiche der Gedächtnisforschung und Methoden zur Steigerung der Gedächtnisleistung. Überraschende Resultate aus zahlreichen psychologischen Experimenten räumen mit falschen Vorstellungen zum Gedächtnistraining und verbinden somit […]

Contents

Features

Contents


Features

Fields of interest
Popular Science; Popular Science in Psychology; Psychology (general); Psychotherapy and Counseling

Target groups
Popular/general

Type of publication
Popular science

More on www.springer.com/978-3-8274-3021-2

Softcover
2013. XII, 331 S.
18,64 €
ISBN 978-3-8274-3043-4
Online orders shipping within 2-3 days.

Hollywood im Weltall
Waren wir wirklich auf dem Mond?


Features

Contents

Features

Fields of interest
Popular Science; Physics (general)

Target groups
Popular/general

Type of publication
Popular science

More on www.springer.com/978-3-8274-3021-2

Softcover
2013. XII, 331 S.
18,64 €
ISBN 978-3-8274-3043-4
Online orders shipping within 2-3 days.
Im Fokus: Strategien der Evolution
Geniale Anpassungen und folgenreiche Fehltritte


Features
Universum für alle
70 spannende Fragen und kurzweilige Antworten

Wollen Sie immer schon mal wissen, was eigentlich Sternschnuppen sind und ob es Schwarze Löcher wirklich gibt? Wieso ist Pluto eigentlich kein Planet mehr und drohen uns Gefahren aus dem Weltall? Antworten zu diesen und vielen weiteren Fragen aus der Astronomie finden Sie in diesem reich bebilderten Buch, das von 70 Online-Videos begleitet wird! Heidelberger Astronomen erklären Ihnen hier die Rätsel des Weltalls auf unterhaltsame und lehrreiche Weise. Die Artikel basieren auf der Vortragsreihe "Uni(versum) für alle! – Halbe Heidelberger Sternstunden". Von April bis Juli 2011 gab es dabei jeden Werktag eine "Astronomische Mittagspause" in der Heidelberger Peterskirche mit einem[...]

Features
"Gönnten Sie sich eine Tour 'In 70 Tagen durch das Weltall'? In jedem der 70 Kapitel finden Sie etwas Interessantes, Neues, Beeindruckendes aus der Astronomie. Und wenn Sie mal vom Lesen genug haben, dann können Sie sich einzelne Geschichten auch in Bild und Ton vortragen lassen. " (Aus dem Vorwort)Was sind eigentlich Sternschnuppen und gibt es Schwarze Löcher wirklich? Wieso ist Pluto [...]?

Fields of interest
Popular Science; Astronomy, Astrophysics and Cosmology; Extraterrestrial Physics, Space Sciences

Target groups
Popular/general

Type of publication
Popular science

More on www.springer.com/978-3-8274-3053-3

Hardcover
2012. Etwa 450 S. 500 Abb. in Farbe. 18,64 €
ISBN 978-3-8274-3053-3
Online orders shipping within 2-3 days.

Wie Gedanken unser Wohlbefinden beeinflussen
Auswirkungen der Psyche auf die Gesundheit

Da es wohl kaum jemanden gibt, der nicht gesund sein und sich wohl fühlen möchte, sind Wellness, Gesundheit wie auch das Verständnis von Faktoren, die uns krank machen, von entscheidender Bedeutung. Gustave Nicolas Fischer und Virginie Dodeler stellen die wichtigsten 100 Aha-Experimente auf diesem Gebiet kurzweilig und anschaulich dar. Durch die daraus resultierenden erstaunlichen Entdeckungen wird jeder Leser den Einfluss der Psyche auf die Gesundheit [...]?

Contents
1 Gesundheit im Alltag2 Zufriedenheit mit dem einger Fließen der Psyche3 Verhalten und Gesundheit4 Umwelt und Gesundheit5 Umgang mit Schmerzen 6 Placeboeffekt7 Risikofaktoren und Prävention8 Umgang mit Krankheit9 Soziale Unterstützung

Fields of interest
Popular Science; Popular Science in Psychology; Personality and Social Psychology; Health Psychology

Target groups
Popular/general

Type of publication
Popular science

More on www.springer.com/978-3-8274-3045-8

Softcover
2013. XII, 261 S. 18,64 €
ISBN 978-3-8274-3045-8
Online orders shipping within 2-3 days.
Burnout for Experts
Prevention in the Context of Living and Working

Wherever people are working, there is some type of stress—and where there is stress, there is the risk of burnout. It is widespread, the subject of numerous studies in the U.S. and abroad. It is also costly, both to individuals in the form of sick days, lost wages, and emotional exhaustion, and to the workplace in terms of the bottom line. But as we are now beginning to understand, burnout is also preventable. Burnout for Experts brings multifaceted analysis to a multilayered problem, offering comprehensive discussion of contributing factors, classic and less widely perceived markers of burnout, coping strategies, and treatment methods. International perspectives consider phase models.[…]

Contents
Health Psychology; Social Work; Psychiatry; Psychology (general)

Target groups
Professional/practitioner

Type of publication
Contributed volume


Hardcover

Usually dispatched within 3 to 5 business days.

Computer Simulation of Thermal Plant Operations

This book describes thermal plant simulation, that is, dynamic simulation of plants which produce, exchange and otherwise utilize heat as their working medium. Directed at chemical, mechanical and control engineers involved with operations, control and optimization and operator training, the book gives the mathematical formulation and use of simulation models of the equipment and systems typically found in these industries. The author has adopted a fundamental approach to the subject. The initial chapters provide an overview of simulation concepts and describe a suitable computer environment. Reviews of relevant numerical computation methods and fundamental thermodynamics are followed[…]

Features
Computer Simulation of Thermal Plant Operations provides an in-depth discussion of thermal plant simulation: dynamic simulation of plants which produce, exchange and otherwise utilize heat as their working medium. The book adopts a fundamental approach to the subject, providing an overview of simulation concepts, descriptions of suitable computer environments, reviews of relevant computation methods[…]

Contents

Fields of interest
Energy Efficiency (incl. Buildings); Industrial Chemistry / Chemical Engineering; Operating Procedures, Materials Treatment; Mechanical Engineering; Simulation and Modeling

Target groups
Professional/practitioner

Type of publication
Professional book

More on www.springer.com/978-1-4614-4255-4

Hardcover

Usually dispatched within 3 to 5 business days.

Cooperation, Community, and Co-Ops in a Global Era

Globalization pressures have made cooperation on a global scale both necessary and possible. But cooperation is not easy in a world dominated by individual, cultural, and national selfish interests. The opposition to cooperation means that cooperation is not natural, but must be instituted through an intellectual and social struggle against countervailing forces. This book discusses issues that are necessary to describe the nature of cooperation and how it can be promoted as a social and ethical ideal amidst a sea of competing interests. Dr. Ratner uses the framework of cooperativism, that is the system of social institutions, social philosophy, cultural psychology and politics that[…]

Features
Cooperation, Community, and Co-ops in a Global EraCarl RatnerHuman history is largely the story of communities, punctuated by examples of cooperatives—in fact, our level of cooperative behavior is one of the attributes that makes us most human. In recent years, however, concepts such as rugged individualism and social Darwinism have competed against cooperative ideas for supremacy, and today’s[…]

Contents
Introduction To The Praxis of Cooperative Behavior.- General Aspects of Cooperation That Potentiate But Do Not Determine Concrete Cooperation.- The Dialectical Relation between Cooperation and Capitalism: Cooperation Before, During, and After The Advent of Capitalism.- Historical Roots Of Contemporary Cooperatives.- Cooperatives’ March to Modernity: Market-oriented, Apolitical Cooperation.- Cooperation in Practice: Successes and Shortcomings of The International Cooperative Movement Today.- Explaining Co-op Weaknesses In Terms of The Dominant Cooperative Paradigm.- An Enriched, Viable[…]

Fields of interest
Cross Cultural Psychology

Target groups
Research

Type of publication
Monograph

More on www.springer.com/978-1-4614-5824-1

Hardcover

Online orders shipping within 2-3 days.
Electric Vehicle Integration into Modern Power Networks

Electric Vehicle Integration into Modern Power Networks provides coverage of the challenges and opportunities posed by the progressive integration of electric drive vehicles. Starting with a thorough overview of the current electric vehicle and battery state-of-the-art, this work describes dynamic software tools to assess the impacts resulting from the electric vehicles deployment on the steady state and dynamic operation of electricity grids, identifies strategies to mitigate them and the possibility to support simultaneously large-scale integration of renewable energy sources. New business models and control management architectures, as well as the communication infrastructure, are also detailed.

Contents

Fields of interest
Energy Systems; Power Electronics, Electrical Machines and Networks; Automotive Engineering

Target groups
Research

Type of publication
Monograph


Hardcover
129,95 €
Usually dispatched within 3 to 5 business days.

Exergy
Production, Cost and Renewability

Bridging the gap between concepts derived from Second Law of Thermodynamics and their application to Engineering practice, the property exergy and the exergy balance can be a tool for analyzing and improving the performance of energy conversion processes. With the exergy analysis it is possible to evaluate the performance of energy conversion processes not only on a thermodynamics basis but also by including production costs and environmental aspects and impacts of the studied processes. This comprehensive approach of the use of energy has, as one of the most important feature, the identification of sustainable ways of energy resources utilization. Based on the fundamentals of the

Features
Bridging the gap between concepts derived from Second Law of Thermodynamics and their application to Engineering practice, the property exergy and the exergy balance can be a tool for analyzing and improving the performance of energy conversion processes. With the exergy analysis it is possible to evaluate the performance of energy conversion processes not only on a thermodynamics basis but also by ...

Contents

Fields of interest
Energy (general); Engineering Thermodynamics, Heat and Mass Transfer; Renewable and Green Energy; Simulation and Modelling; Engineering Economics, Organization, Logistics, Marketing

Target groups
Research

Type of publication
Monograph

More on www.springer.com/978-1-4471-4164-8

Hardcover
2013. XIV, 336 p. 164 illus., 45 in color. (Green Energy and Technology)
129,95 €
ISBN 978-1-4471-4164-8
Usually dispatched within 3 to 5 business days.

From Identity-Based Conflict to Identity-Based Cooperation
The ARIA Approach in Theory and Practice

Through proper engagement, identity-based conflict enhances and develops identity as a vehicle to promote creative collaboration between individuals, the groups they constitute and the systems they forge. This handbook describes the specific model that has been developed as well as various approaches and applications to identity-conflict used throughout the world.

Features
Identity-based conflicts are the deepest and often most destructive form of conflict. In these conflicts people’s very sense of self is challenged, disrespected and undermined by others in cyclical and reinforcing ways. The authors in From Identity-Based Conflict to Identity-Based Cooperation take up the challenge of creatively engaging these conflicts and transforming them into shared purpose and

Contents

Fields of interest
Personality and Social Psychology; Political Science, general

Target groups
Research

Type of publication
Monograph


Hardcover
2012. XXI, 212 p. 19 illus., 9 in color. (Peace Psychology Book Series)
99,95 €
Usually dispatched within 3 to 5 business days.
Korruption: Risikofaktor Mensch

Wahrnehmung - Rechtfertigung - Meldeverhalten


Features


Contents


Fields of interest

Psychology (general); Industrial and organisational psychology

Target groups

Professional/practitioner

Type of publication

Professional book

More on www.springer.com/978-3-642-35009-2

Softcover

2012. XII, 176 S.
4,67 €
ISBN 978-3-642-35009-2

Online orders shipping within 2-3 days.

Mental Well-Being

International Contributions to the Study of Positive Mental Health

This book provides a new generation of research in which scholars are investigating mental health and human development as not merely the absence of illness or dysfunction, but also the presence of subjective well-being. Subjective well-being is a fundamental facet of the quality of life. The quality of an individual’s life can be assessed externally and objec- tively or internally and subjectively. From an objec- tive standpoint, other people measure and judge another’s life according to criteria such as wealth or income, educational attainment, occupational pres- tige, and health status or longevity. Nations, commu- nities, or individuals who are wealthier, have more education, and live […]

Features

This book provides a new generation of research in which scholars are investigating mental health and human development as not merely the absence of illness or dysfunction, but also the presence of subjective well-being. Subjective well-being is a fundamental facet of the quality of life. Nations, communities, or individuals who are wealthier, have more education, and live longer are considered to have […]

Contents


Fields of interest

Health Psychology; Quality of Life Research; Psych- otherapy; Popular Science in Psychology

Target groups

Research

Type of publication

Contributed volume

More on www.springer.com/978-94-007-5194-1

Hardcover

129,95 €
ISBN 978-94-007-5194-1

Usually dispatched within 3 to 5 business days.
Practical Approach to Exergy and Thermoeconomic Analyses of Industrial Processes

Although the exergy method has been featured as the subject of many publishing papers in scientific and engineering journals and at conferences, very few comprehensive books on this subject have been published so far. Practical Approach to Exergy and Thermoeconomic Analyses of Industrial Processes details the exergetic and thermoeconomic analyses of industrial processes using Aspen Plus and a novel Microsoft Excel Application developed by the authors which can be applied to industrial processes across the board. Employing a practical approach to an innovative and complex energy process, every chapter contains extensive explanations of a complex and real case and numerous examples.

Features
Although the exergy method has been featured as the subject of many publishing papers in scientific and engineering journals and at conferences, very few comprehensive books on this subject have been published so far. Practical Approach to Exergy and Thermoeconomic Analyses of Industrial Processes details the exergetic and thermoeconomic analyses of industrial processes using Aspen Plus and a novel Microsoft Excel Application developed by the authors which can be applied to industrial processes across the board. Employing a practical approach to an innovative and complex energy process, every chapter contains extensive explanations of a complex and real case and numerous examples.

Contents

Fields of interest
Energy Policy; Economics and Management; Energy Economics; Environmental Economics

Target groups
Research

Type of publication
Brief

More on www.springer.com/978-1-4471-4621-6

49,95 €
ISBN 978-1-4471-4621-6
Usually dispatched within 3 to 5 business days.

---

Reactive Power Management of Power Networks with Wind Generation

As the energy sector shifts and changes to focus on renewable technologies, the optimization of wind power becomes a key practical issue. Reactive Power Management of Power Networks with Wind Generation brings into focus the development and application of advanced optimization techniques to the study, characterization, and assessment of voltage stability in power systems. Recent advances on reactive power management are reviewed with particular emphasis on the analysis and control of wind energy conversion systems and FACTS devices. Following an introduction, distinct chapters cover the key areas of FACTS devices, voltage stability, wind generators, reactive power optimization and.[...]

Features
As the energy sector shifts and changes to focus on renewable technologies, the optimization of wind power becomes a key practical issue. Reactive Power Management of Power Networks with Wind Generation brings into focus the development and application of advanced optimization techniques to the study, characterization, and assessment of voltage stability in power systems. Recent advances on reactive power management are reviewed with particular emphasis on the analysis and control of wind energy conversion systems and FACTS devices. Following an introduction, distinct chapters cover the key areas of FACTS devices, voltage stability, wind generators, reactive power optimization and.[...]

Contents

Fields of interest
Renewable and Green Energy; Renewable and Green Energy; Power Electronics, Electrical Machines and Networks

Target groups
Research

Type of publication
Monograph

More on www.springer.com/978-1-4471-4666-7

Hardcover
2013. IX, 124 p. 72 illus. (Lecture Notes in Energy, Vol. 5) 99,95 €
ISBN 978-1-4471-4666-7
Usually dispatched within 3 to 5 business days.

---

Remaking Transitional Justice in the United States

The Rhetorical Authorization of the Greensboro Truth and Reconciliation Commission

Remaking Transitional Justice in the United States: The Rhetoric of the Greensboro Truth and Reconciliation Commission explores rhetorical attempts to authorize the Greensboro Truth and Reconciliation Commission—a grassroots, U.S.-based truth commission created in 2004 to redress past injustices in the city. Through detailed rhetorical analyses, the book demonstrates that the development of the field of transitional justice has given rise to a transnational rhetorical tradition that provides those working in the field with series of “enabling constraints.” The book then shows how Greensboro stakeholders attempted to reaccentuate this rhetorical tradition in their rhetorical.[...]

Features
Remaking Transitional Justice in the United States explores rhetorical attempts to authorize the Greensboro Truth and Reconciliation Commission—a grassroots initiative established in Greensboro, North Carolina in 2004 to investigate a traumatic and controversial event in the city’s past. The book demonstrates that the field of transitional justice has given rise to a transnational rhetorical.[...]

Contents

Fields of interest
Psychology and Law; Personality and Social Psychology; Political Science, general

Target groups
Research

Type of publication
Monograph


Hardcover
2013. XVII, 157 p. 1 illus. in color. (Springer Series in Transitional Justice) 99,95 €
Usually dispatched within 3 to 5 business days.
Resilience in Children, Adolescents, and Adults

Translating Research into Practice

Resilience in Children, Adolescents, and Adults: Translating Research into Practice recognizes the growing need to strengthen the links between theory, assessment, interventions, and outcomes to give resilience a stronger empirical base, resulting in more effective interventions and strength-enhancing practice. This comprehensive volume clarifies core constructs of resilience and links these definitions to effective assessment. Leading researchers and clinicians examine effective scales, questionnaires, and other evaluative tools as well as instructive studies on cultural considerations in resilience, resilience in the context of disaster, and age-appropriate interventions.

Features
Resilience in Children, Adolescents, and Adults: Translating Research into Practice recognizes the growing need to strengthen the links between theory, assessment, interventions, and outcomes to give resilience a stronger empirical base, resulting in more effective interventions and strength-enhancing practice. This comprehensive volume clarifies core constructs of resilience and links these definitions to effective assessment. Leading researchers and clinicians examine effective scales, questionnaires, and other evaluative tools as well as instructive studies on cultural considerations in resilience, resilience in the context of disaster, and age-appropriate interventions.

Contents

Fields of interest
Child and School Psychology; Psychiatry; Educational Psychology; Social Work; Pediatrics

Resilience in Children, Adolescents, and Adults: Translating Research into Practice recognizes the growing need to strengthen the links between theory, assessment, interventions, and outcomes to give resilience a stronger empirical base, resulting in more effective interventions and strength-enhancing practice. This comprehensive volume clarifies core constructs of resilience and links these definitions to effective assessment. Leading researchers and clinicians examine effective scales, questionnaires, and other evaluative tools as well as instructive studies on cultural considerations in resilience, resilience in the context of disaster, and age-appropriate interventions.

Features
Resilience in Children, Adolescents, and Adults: Translating Research into Practice recognizes the growing need to strengthen the links between theory, assessment, interventions, and outcomes to give resilience a stronger empirical base, resulting in more effective interventions and strength-enhancing practice. This comprehensive volume clarifies core constructs of resilience and links these definitions to effective assessment. Leading researchers and clinicians examine effective scales, questionnaires, and other evaluative tools as well as instructive studies on cultural considerations in resilience, resilience in the context of disaster, and age-appropriate interventions.

Contents

Fields of interest
Child and School Psychology; Psychiatry; Educational Psychology; Social Work; Pediatrics

Translating Research into Practice recognizes the growing need to strengthen the links between theory, assessment, interventions, and outcomes to give resilience a stronger empirical base, resulting in more effective interventions and strength-enhancing practice. This comprehensive volume clarifies core constructs of resilience and links these definitions to effective assessment. Leading researchers and clinicians examine effective scales, questionnaires, and other evaluative tools as well as instructive studies on cultural considerations in resilience, resilience in the context of disaster, and age-appropriate interventions.

Features
Resilience in Children, Adolescents, and Adults: Translating Research into Practice recognizes the growing need to strengthen the links between theory, assessment, interventions, and outcomes to give resilience a stronger empirical base, resulting in more effective interventions and strength-enhancing practice. This comprehensive volume clarifies core constructs of resilience and links these definitions to effective assessment. Leading researchers and clinicians examine effective scales, questionnaires, and other evaluative tools as well as instructive studies on cultural considerations in resilience, resilience in the context of disaster, and age-appropriate interventions.

Contents

Fields of interest
Child and School Psychology; Psychiatry; Educational Psychology; Social Work; Pediatrics

Rural Electrification Through Decentralised Off-grid Systems in Developing Countries

More than 1.3 billion people worldwide lack access to electricity. Although extension of the electricity grid remains the preferred mode of electrification, off-grid electrification can offer a solution to such cases. Rural Electrification through Decentralised Off-grid Systems in Developing Countries provides a review of rural electrification experiences with an emphasis on off-grid electrification and presents business-related aspects including participatory arrangements, financing, and regulatory governance. Organized in three parts, Rural Electrification through Decentralised Off-grid Systems in Developing Countries provides comprehensive coverage and state-of-the-art reviews.

Features
More than 1.3 billion people worldwide lack access to electricity. Although extension of the electricity grid remains the preferred mode of electrification, off-grid electrification can offer a solution to such cases. Rural Electrification through Decentralised Off-grid Systems in Developing Countries provides a review of rural electrification experiences with an emphasis on off-grid electrification.

Contents

Fields of interest
Energy Systems; Circuits and Systems; Renewable Energy and Green Energy

Target groups
Research

Type of publication
Monograph

More on www.springer.com/978-1-4471-4672-8

Hardcover

Solid Oxide Fuels Cells: Facts and Figures
Past Present and Future Perspectives for SOFC Technologies

Solid Oxide Fuel Cells (SOFCs) operate at high temperatures allowing more fuel flexibility and also useful heat output and so increase total efficiency, but does give some interesting engineering challenges. Solid Oxide Fuel Cells: Facts and Figures provides clear and accurate data for a selection of SOFC topics from the specific details of Ni cermet anodes, chemical expansion in materials, and the measuring and modelling of mechanical stresses, to the broader scope of the history and present design of cells, to SOFC systems and the future of SOFC. Celebrating Ul Brüel’s work on Solid Oxide Fuel Cells, and especially his running of the European Fuel Cell Forum, Solid Oxide Fuels...

Features
Solid Oxide Fuel Cells (SOFCs) operate at high temperatures allowing more fuel flexibility and also useful heat output and so increase total efficiency, but does give some interesting engineering challenges. Solid Oxide Fuel Cells: Facts and Figures provides clear and accurate data for a selection of SOFC topics from the specific details of Ni cermet anodes, chemical expansion in materials, and the measuring and modelling of mechanical stresses, to the broader scope of the history and present design of cells, to SOFC systems and the future of SOFC. Celebrating Ul Brüel’s work on Solid Oxide Fuel Cells, and especially his running of the European Fuel Cell Forum, Solid Oxide Fuels...

Contents
Strategisch Behavioral Therapie (SBT)
Emotionale Überlebensstrategien – Werte – Embodiment
Wertebezogene Verhaltenstherapie Strategisch Behavioral Therapie (SBT) versteht sich als eine Verhaltenstherapie, die die Befriedigung psychologischer Grundbedürfnisse und wertbezogene Erfahrungen als Ressourcen in ihre konzeptionellen Überlegungen einbezieht. Ihr Grundverständnis: Verhalten ist darauf ausgerichtet, zentrale Grundbedürfnisse (z. B. nach Geborgenheit, nach Selbstbestimmung) zu befriedigen und somit emotionales Gleichgewicht zu erzielen. - Mod:i: In der Beziehung zu wichtigen Bezugspersonen lernen Menschen, verschiedene Modi der Bedürfnisbefriedigung zu entwickeln, die zumindest ein Minimum des Begehrens garantieren sollen. - Strategien: Diese Modi zeigen sich in [...]

Features
Wertebezogene Verhaltenstherapie Strategisch Behavioral Therapie (SBT) versteht sich als eine Verhaltenstherapie, die die Befriedigung psychologischer Grundbedürfnisse und wertbezogene Erfahrungen als Ressourcen in ihre konzeptionellen Überlegungen einbezieht. Ihr Grundverständnis: Verhalten ist darauf ausgerichtet, zentrale Grundbedürfnisse (z. B. nach Geborgenheit, nach [...]

Contents

Fields of interest
Psychotherapy and Counseling; Psychotherapy; Clinical Psychology; Behavioral Therapy; Cognitive Psychology

Target groups
Professional/practitioner

Type of publication
Professional book

More on www.springer.com/978-3-642-29729-8

Hardcover
2013. XVI, 236 S. 23 Abb.
46,68 €
ISBN 978-3-642-29729-8
Usually dispatched within 3 to 5 business days.

Synchronisation nonverbalen Verhaltens
Weiterentwicklung und Anwendung zeitreihenanalytischer Identifikationsverfahren

Features

Contents

Fields of interest
Gender Studies

Target groups
Research

Type of publication
Monograph

More on www.springer.com/978-3-531-19814-9

Softcover
2013. VI, 188 S. 35 Abb.
32,66 €
ISBN 978-3-531-19814-9
Usually dispatched within 3 to 5 business days.

The ABCs of REBT Revisited
Perspectives on Conceptualization
The cornerstone of Rational Emotive Behavior Therapy is its ABC framework which helps therapists make sense of clients’ problems. As it turns out, however, this model is often misunderstood by both clients and professionals. Research investigation on this misunderstanding forms the basis of this book. It addresses the doubts, reservations and objections clients had to the ABC framework in a research study of an REBT-based program in a psychiatric hospital. Additionally, errors and confusions on the part of those writing about the therapy is reviewed. Further, study was made on the accuracy of REBT therapists, themselves, in teaching this therapy to students. Also included is [...]

Features
The cornerstone of Rational Emotive Behavior Therapy is its ABC framework which helps therapists make sense of clients’ problems. As it turns out, however, this model is often misunderstood by both clients and professionals. Research investigation on this misunderstanding forms the basis of this book. It addresses the doubts, reservations and objections clients had to the ABC framework in a research [...]

Contents
Introduction.- What are the ABCs of REBT?.- The ABCs of REBT: The Dryden Framework.- Putting It All Together: Some Examples of the ABCs of REBT.- How clients conceptualize the ABC Framework.- Overview.- Patients' Initial Doubts, Reservations and Objections to the ABC framework.- Method.- Results and Discussion of Findings.- No Current doubts/Reservations/Objections: View the ABCs of REBT and its Application Positively/Optimistically.- Doubts/Reservations about the ABC Model in Theory.- Doubts/Reservations about Putting the ABC Model into Practice.- Doubts/Reservations about [...]
The Chinese Oil Industry

History and Future

The Chinese Oil Industry: History and Future presents a wealth of tables and figures with new data on Chinese fossil fuel production and consumption, together with a peak oil model to forecast future trends in energy supply and demand. Energy experts in China and the United States provide you with a unique overview of the entire Chinese oil industry. The authors discuss trends in production and consumption of global significance through to the middle of the 21st century, including the energy returned on energy invested (EROI) for China’s oil and gas. The role of oil in the industrialization of China is described as are four phases in the history of the Chinese oil industry. Detailed [...] Features

The Chinese Oil Industry: History and Future presents a wealth of tables and figures with new data on Chinese fossil fuel production and consumption, together with a peak oil model to forecast future trends in energy supply and demand. Energy experts in China and the United States provide you with a unique overview of the entire Chinese oil industry. The authors discuss trends in production [...] Contents


Fields of interest

Fossil Fuels (incl. Carbon Capture); Sustainable Development; Quantitative Geology

Target groups

Research

Type of publication

Brief

More on www.springer.com/978-1-4614-5679-7

Softcover


Usually dispatched within 3 to 5 business days.

The Corporeal Identity

When the Self-Image Hurts

Explores the cultural origins and psychological aspects of body identity disorders. Discusses the influence of contemporary virtual and cyberspace imagery on self-image. Draws on author’s professional experience largely dedicated to exploring disorders wherein body identity is the chosen field for communication and exchange. Re-examines such illnesses as anorexia, bulimia, body dysmorphic disorder, and others

Features

Why do so many people feel uneasy when they look in the mirror or see pictures of themselves? The contrast between their body and the way they imagine it to be, or the way they wish it were, may account for their malaise. This contrast might even be the starting point for various kinds of psychological disorders. If a person’s self-image fails to match up to their vision of the body they would rather have, [...] Fields of interest

Health Psychology; Psychiatry; Sociology; general; Personality and Social Psychology

Target groups

Professional/practitioner

Type of publication

Monograph

More on www.springer.com/978-1-4614-5679-7

Hardcover


Usually dispatched within 3 to 5 business days.

The Influence of Attention, Learning, and Motivation on Visual Search

The Influence of Attention, Learning, and Motivation on Visual Search will bring together distinguished authors who are conducting cutting edge research on the many factors that influence search behavior. These factors will include low-level feature detection; statistical learning; scene perception; neural mechanisms of attention; and applied research in real world settings.

Features

Visual search is one of our most ubiquitous activities, as anyone who has had a “Where’s my car?” moment can attest. Attending to relevant stimuli while screening out distractions requires a complex set of interactions between visual, neurological, and behavioral processes. While recent years have seen digital technologies both enhance our visual search experiences and present more intricate visual [...] Contents


Fields of interest

Cognitive Psychology; Learning and Instruction; Personality and Social Psychology

Target groups

Research

Type of publication

Monograph

More on www.springer.com/978-1-4614-4793-1

Hardcover


Usually dispatched within 3 to 5 business days.
Therapie wirkt!
So erleben Patienten Psychotherapie


Features
Therapie wirkt! Stellen Sie sich vor, Sie hätten eine schwere körperliche Erkrankung und eine 50%ige Chance, dass diese erfolgreich behandelt wird. Würden Sie dann diese Chance nicht nutzen und alles nur Mögliche tun, um die Krankheit zu überwinden? Mit Psychotherapie lassen sich mindestens 50% der Patientinnen und Patienten erfolgreich behandeln. Warum gibt es dann immer noch erhebliche [...] 

Contents

Fields of interest
Psychotherapy and Counseling; Psychotherapy; Clinical Psychology; Psychiatry; Cognitive Psychology

Target groups
Professional/practitioner

Type of publication
Professional book

More on www.springer.com/978-3-642-28216-4

Hardcover
2013, X, 209 S. 28,03 €
ISBN 978-3-642-28216-4

Online orders shipping within 2-3 days.

---

Transitional Justice and Civil Society in the Balkans

Transitional Justice and Civil Society in the Balkans covers civil society engagements with transitional justice processes in the Balkans. The Balkans are a region marked by the post-communist and post-conflict transitional turmoil through which its countries are going through. This volume is intended to provide a comprehensive introduction to research in transitional justice in this part of the world, mostly written by local scholars. Transitional justice is ever-growing field which responds to dilemmas over how successor regimes should deal with past human rights abuses of their authoritarian predecessors. The editors and author emphasize the relatively unexplored and [...] 

Features
Transitional Justice and Civil Society in the Balkans covers civil society engagements with transitional justice processes in the Balkans. The Balkans, whose physical geography is generally considered to be the former Yugoslavia, as well as Albania, Greece, Romania and Bulgaria, is a region marked by the post-communist and post-conflict transitional turmoil in which its countries are [...] 

Contents

Fields of interest
Personality and Social Psychology; Political Science, general

Target groups
Research

Type of publication
Contributed volume


Hardcover
2013, XV, 244 p. 5 illus. 195,95 €

Usually dispatched within 3 to 5 business days.

---

Weather Modeling and Forecasting of PV Systems Operation

In the past decade, there has been a substantial increase of grid-feeding photovoltaic applications, thus raising the importance of solar electricity in the energy mix. This trend is expected to continue and may even increase. Apart from the high initial investment cost, the fluctuating nature of the solar resource raises particular insertion problems in electrical networks. Proper grid managing demands short- and long-time forecasting of solar power plant output. Weather modeling and forecasting of PV systems operation is focused on this issue. Models for predicting the state of the sky, forecasting solar irradiance and forecasting solar irradiation are studied and exemplified. [...] 

Features
In the past decade, there has been a substantial increase of grid-feeding photovoltaic applications, thus raising the importance of solar electricity in the energy mix. This trend is expected to continue and may even increase. Apart from the high initial investment cost, the fluctuating nature of the solar resource raises particular insertion problems in electrical networks. Proper grid managing [...] 

Contents

Fields of interest
Energy Harvesting; Renewable and Green Energy; Monitoring / Environmental Analysis; Meteorology / Climatology; Appl. Mathematics / Computational Methods of Engineering

Target groups
Research

Type of publication
Monograph

More on www.springer.com/978-1-4471-4648-3

Hardcover
2013, XVIII, 355 p. 149,95 €

Usually dispatched within 3 to 5 business days.
An Anthropological Journey into Well-Being
Insights from Bolivia

This volume is a unique contribution to the exploration of a new perspective in the study of well-being, which tries to overcome the quantification bias by creating an account of ‘the good life’ in a specific place. Rather than numbers, this research focuses on local narratives, emphasizing the urgent need to include a wider range of methodological approaches when engaging with well-being. The volume demonstrates through the Bolivian case study the value of qualitative research for well-being studies. It shows the potential to integrate predominant quantitative data with qualitative outcomes, such as those emerging through ethnography. It is aimed at academics, researchers and [...]  

Features
This volume is a unique contribution to the exploration of a new perspective in the study of well-being, which tries to overcome the quantification bias by creating an account of ‘the good life’ in a specific place. Rather than numbers, this research focuses on local narratives, emphasising the urgent need to include a wider range of methodological approaches when engaging with well-being. [...]

Contents
Chapter 1. Introduction.  
Chapter 2. Suma Jakaña.  
Chapter 3. Fiesta and Dancing: Community and Religion.  
Chapter 4. Social Protests.  
Chapter 5. Well-being and Community.  
Chapter 6. Conclusion.

Fields of interest
Quality of Life Research; Psychology Research; Personality and Social Psychology

Target groups
Research

Type of publication
Monograph

More on www.springer.com/978-94-007-5668-7

Softcover
2013, X, 96 p. 4 illus. (SpringerBriefs in Well-Being and Quality of Life Research)

49,95 €  
ISBN 978-94-007-5668-7  
Usually dispatched within 3 to 5 business days.

Archaeology from Historical Aerial and Satellite Archives

Historical archives of vertical photographs and satellite images acquired for other purposes (mainly declassified military reconnaissance) offer considerable potential for archaeological and historical landscape research. They provide a unique insight into the character of the landscape as it was over half a century ago, before the destructive impact of later 20th century development and intensive land use. They provide a high quality photographic record not merely of the landscape at that time, but offer the prospect of the better survival of remains reflecting its earlier history, whether manifest as earthworks, cropmarks or soilmarks. These various sources of imagery also provide [...]

Features
Major international historical archives of declassified military reconnaissance photographs and satellite images, combined with a range of national collections of vertical photographs, offer considerable potential for archaeological and historical landscape research. They provide a unique insight into the character of the landscape as it was over half a century or more ago, before the destructive impact of [...]  

Contents

Fields of interest
Archaeology; Anthropology; Geographical Information Systems / Cartography

Target groups
Research

Type of publication
Contributed volume

More on www.springer.com/978-1-4614-4504-3

Hardcover
2013, XXIV, 341 p. 113 illus., 28 in color.  
99,95 €  
Usually dispatched within 3 to 5 business days.
Bildungserfahrungen an Montessorischulen

Empirische Studie zu Schulqualität und Lernerfahrungen

Selbstständiges Lernen und die Annahme eines „inneren Bauplans“ des Kindes sind zentrale Ideen der Montessoripädagogik. Die Aufgaben des Lehrers werden vor allem in der Vorbereitung der Lernumgebung und einer Lernbegleitung gesehen. Im Rahmen dieser Studie wurden Schülerinnen, Schülern und deren Eltern Fragen zur Bewertung des Unterrichts und des Schulklimas vorgelegt. In Form von intensiven Interviews und mit über 600 Fragebogen ist eine empirische Datenlage entstanden, die es in den Debatten um Reformpädagogik bisher nicht gab. Der Band dokumentiert zentrale Ergebnisse und beschreibt eine empirisch-wissenschaftliche Basis für die weitere Diskussion der Vor- und Nachteile der [...] 

Features
Selbstständiges Lernen und die Annahme eines „inneren Bauplans“ des Kindes sind zentrale Ideen der Montessoripädagogik. Die Aufgaben des Lehrers werden vor allem in der Vorbereitung der Lernumgebung und einer Lernbegleitung gesehen. Im Rahmen dieser Studie wurden Schülerinnen, Schüler und deren Eltern Fragen zur Bewertung des Unterrichts und des Schulklimas vorgelegt. In Form von intensiven Interviews und [...] 

Contents
Zentrale Befunde.- Forschungsdesign.- Montessorischule: eine Kurzcharakteristik.- Wie erleben Schülerinnen, Schüler und deren Eltern Fragen zur Bewertung des Unterrichts und des Schulklimas vorgelegt. In Form von intensiven Interviews und [...] 

Fields of interest
Social Sciences (general); Education (general) 

Target groups
Professional/practitioner 

Type of publication
Monograph 

Softcover 
2013. XIV, 270 S. 93 Abb. 
ISBN 978-3-531-18507-1 
Usually dispatched within 3 to 5 business days. 

Boreout - Biografien der Unterforderung und Langeweile

Eine soziologische Analyse

Der in der Leistungsgesellschaft sozialisierte Arbeitnehmer ist es gewohnt, jede Minute seiner Zeit zu nutzen. Trifft er in seiner Arbeitswelt auf Strukturen, die einen Leerlauf provozieren, wird er dadurch belastet. Elisabeth Prammer zeigt, dass Boreout unter gewissen Bedingungen eine erwartbare Begleiterscheinung der modernen Arbeitswelt darstellt. Sie untersucht die Verkettung der Betroffenen in eine Handlungsstrategie, die eine Negativspirale auslöst. Die meisten Betroffenen wählen paradox Verhaltensstrategien und täuschen vor, viel zu tun zu haben. Kann das Problem nicht angesprochen werden, wählen die meisten Betroffenen die innere Kündigung. Anhand biografischer Interviews [...] 

Features
Der in der Leistungsgesellschaft sozialisierte Arbeitnehmer ist es gewohnt, jede Minute seiner Zeit zu nutzen. Trifft er in seiner Arbeitswelt auf Strukturen, die einen Leerlauf provozieren, wird er dadurch belastet. Elisabeth Prammer zeigt, dass Boreout unter gewissen Bedingungen eine erwartbare Begleiterscheinung der modernen Arbeitswelt darstellt. Sie untersucht die Verkettung der Betroffenen in eine [...] 

Contents

Fields of interest
Social Sciences (general) 

Target groups
Research 

Type of publication
Monograph 

Softcover 
2013. VII, 141 S. 3 Abb. 
32,66 € 
ISBN 978-3-658-00502-3 
Usually dispatched within 3 to 5 business days.
China’s Multicultural Economies
Social and Economic Indicators

Although the majority of China’s population is of the Han nationality (which accounts for more than 90% of China’s population), the non-Han ethnic groups have a population of more than 100 million. Until now, China has officially identified, except for other unknown ethnic groups and foreigners with Chinese citizenship, 56 ethnic groups. In addition, ethnic groups vary widely in size. With a population of more than 15 million, the Zhuang have the largest ethnic minority, and the Lhoba, with only two thousand or more, the smallest. China’s ethnic diversity has resulted in a special socioeconomic landscape of China itself. This book develops a complete socioeconomic picture and...[...]

Features
Although the majority of China’s population is of the Han nationality (which accounts for more than 90% of China’s population), the non-Han ethnic groups have a population of more than 100 million. Until now, China has officially identified, except for other unknown ethnic groups and foreigners with Chinese citizenship, 56 ethnic groups. In addition, ethnic groups vary widely in size. With a population of more...[...]

Contents

Fields of interest
Political Science, general; Demography; Sociology, general; Population Economics

Target groups
Research

Type of publication
Monograph

More on www.springer.com/978-3-642-31435-3

Hardcover
2013, XVII, 197 p. 1 illus. in color.
99,95 €
ISBN 978-3-642-31435-3
Usually dispatched within 3 to 5 business days.

Community Disaster Vulnerability
Theory, Research, and Practice

Disaster vulnerability is rapidly increasing on a global scale, particularly for those populations which are the historical clients of the social work profession. These populations include the very young and very old, the poor, ethnic and racial minorities, and those with physical or mental disabilities. Social workers are increasingly providing services in disasters during response and recovery periods, and are using community interventions to reduce disaster vulnerability. There is a need for a cogent theory of vulnerability and research that addresses improved community disaster practice and community resilience. Community Disaster Vulnerability and Resilience provides a unifying...[...]

Features
Large-scale disasters-- Hurricane Katrina, the 2004 tsunami, the BP oil spill-- are enduring reminders of the fragility of our natural resources, our built environment, and our human communities. Particularly apparent is how much longer recovery takes for some survivors than others-- and that some never recover at all. Community Disaster Vulnerability offers a deeply nuanced understanding of how...[...]

Contents

Fields of interest
Social Work; Community & Environmental Psychology; Social Policy

Target groups
Research

Type of publication
Monograph

More on www.springer.com/978-1-4614-5736-7

Hardcover
2013, VII, 175 p. 34 illus.
99,99 €
ISBN 978-1-4614-5736-7
Usually dispatched within 3 to 5 business days.

Complex Human Dynamics
From Mind to Societies

This book, edited and authored by a closely collaborating network of social scientists and psychologists, recasts typical research topics in these fields into the language of nonlinear, dynamic and complex systems. The aim is to provide scientists with different backgrounds - physics, applied mathematics and computer sciences - with the opportunity to apply the tools of their trade to an altogether new range of possible applications. At the same time, this book will serve as a first reference for a new generation of social scientists and psychologists wishing to familiarize themselves with the new methodology and the ‘thinking in complexity’.

Features
This book, edited and authored by a closely collaborating network of social scientists and psychologists, recasts typical research topics in these fields into the language of nonlinear, dynamic and complex systems. The aim is to provide scientists with different backgrounds - physics, applied mathematics and computer sciences - with the opportunity to apply the tools of their trade to an altogether new...[...]

Contents

Fields of interest
Methodology of the Social Sciences; Socio- and Econophysics; Population and Evolutionary Models; Cognitive Psychology; Complexity

Target groups
Research

Type of publication
Contributed volume

More on www.springer.com/978-3-642-31435-3

Hardcover
2013, X, 242 p. 43 illus., 23 in color. (Understanding Complex Systems)
99,95 €
ISBN 978-3-642-31435-3
Usually dispatched within 3 to 5 business days.
Cyberstalking und Cybercrime

Kriminalsoziologische Untersuchung zum Cyberstalking-Verhalten der Österreicher

Mit Ausweitung der Telekommunikationstechnologien hat sich das Kommunikationsverhalten der Menschen geändert und damit ist auch der Missbrauch gestiegen. Die Bandbreite reicht von Cyberstalking, -mobbing bis hin zur Computerkriminalität. Edith Huber stellt zum einen die Frage, ob durch das Aufkommen der neuen Telekommunikationstechnologien ein sozialer Wandel vollzogen wurde, der kriminelles bzw. missbräuchliches Verhalten fördert. Zum anderen geht sie der Frage nach, was in unserer Gesellschaft als „computerkriminel“ zu werten ist. Werden wir alle zu Tätern?

Features
Mit Ausweitung der Telekommunikationstechnologien hat sich das Kommunikationsverhalten der Menschen geändert und damit ist auch der Missbrauch gestiegen. Die Bandbreite reicht von Cyberstalking, -mobbing bis hin zur Computerkriminalität. Edith Huber stellt zum einen die Frage, ob durch das Aufkommen der neuen Telekommunikationstechnologien ein sozialer Wandel vollzogen wurde, der kriminelles bzw. [..]

Contents

Fields of interest
Social Sciences (general)

Target groups
Research

Type of publication
Monograph

More on springer.com/978-3-531-15546-3

Softcover
2013. XIX, 249 S. 54 Abb.
37,34 €
ISBN 978-3-531-15546-3

Usually dispatched within 3 to 5 business days.

Das Interpretative Paradigma

Eine Einführung

den[..]

Features
Das Buch führt in die Grundlagen soziologischer Theorie- und Forschungsperspektiven des Interpretativen Paradigmas ein. Mit diesem Begriff sind Ansätze bezeichnet, in denen die Fähigkeiten und Notwendigkeiten des Menschen, sich Welt deutend und handelnd zu erschließen, zum Ausgangspunkt der Analyse – meist in Gestalt qualitativer Sozialforschung – gemacht werden. Soziologie wird hier – schon lange vor den[..]

Contents

Fields of interest
Social Sciences (general); Sociology, general

Target groups
Upper undergraduate

Type of publication
German textbook

More on www.springer.com/978-3-531-15546-3

Softcover
2012. VIII, 344 S.
23,32 €
ISBN 978-3-531-15546-3

Online orders shipping within 2-3 days.

Das deutsche Gemeinderatsmitglied

Problemlöschen – Einstellungen – Rollenverständnis


Fields of interest
Political Science, general

Target groups
Professional/practitioner

Type of publication
Monograph

More on www.springer.com/978-3-531-18639-9

Softcover
2013. X, 170 S.
27,99 €
ISBN 978-3-531-18639-9

Usually dispatched within 3 to 5 business days.
Dementagogik

Dementiell erkrankten Menschen neu und ganzheitlich begegnen


Der demographische Wandel und der damit einhergehende Anstieg dementiell erkrankter Menschen erfordert neue Wege in der Altenhilfe. Janina Steurenthaler untersucht die Demenzerkrankung und Erkrankung aus interdisziplinärer Sicht, um so mehrschichtige und umfassende Behandlungsansätze entwickeln zu können. Diese professionelle pädagogische Betreuung dementer Menschen ist die Dementagogik. Die neue [...] Contents


Social Sciences (general) Target groups

Research Type of publication

Monograph More on www.springer.com/978-3-531-19834-7

Softcover

2013. XVII, 100 S. 5 Abb. (VS College) 27,99 € ISBN 978-3-531-19834-7 Usually dispatched within 3 to 5 business days.

Demografiepolitik

Herausforderungen und Handlungsfelder

Ein Buch unter dem Titel „Demografiepolitik“ soll die aus den kollektiven Entwicklungen der Schrumpfung und der Alterung der Bevölkerung einerseits und aus der individuellen Perspektive des längeren Lebens andererseits resultierenden Befunde, Fragen, Probleme und Handlungsbedarfe politikfeldübergreifend aufnehmen und thematisieren. Dahinter steht die These, dass der demographische Wandel eine politische Gestaltungsaufgabe ist und eine politische Gesamtverantwortung fördert. Die bisher vorherrschende Sichtweise auf betroffene Makro- und Mikrosysteme greift zu kurz, sie verengt den Handlungsbereich insbesondere auf die Sozialpolitik und die Bildungspolitik. Damit entsteht auch die [...] Features

Ein Buch unter dem Titel „Demografiepolitik“ soll die aus den kollektiven Entwicklungen der Schrumpfung und der Alterung der Bevölkerung einerseits und aus der individuellen Perspektive des längeren Lebens andererseits resultierenden Befunde, Fragen, Probleme und Handlungsbedarfe politikfeldübergreifend aufnehmen und thematisieren. Dahinter steht die These, dass der demographische Wandel eine politische [...] Contents


Social Science, general Target groups

Research Type of publication


Softcover


Der “Ossi”


„Ostdeutsche“ gelten je nach Konjunktur sozialer und politischer Probleme als besonders umbruchsfähig, änderungsresistenz oder rechtst radikal. Diese Fremd- und Selbstzuschreibungen gilt es hinsichtlich ihrer Funktionen und ihrer Wirkungen zu analysieren. Die AutorInnen dieses Buches fragen, wie die „Ostdeutschen“ klas sifiziert werden, welche Auswirkungen diese Zuordnungen auf die „Ostdeutschen“ haben und [...] Contents


Sociology, general; Political Science, general Target groups

Professional/practitioner Type of publication

Professional book More on www.springer.com/978-3-531-17725-0

Softcover

2013. VI, 234 S. 10 Abb. 32,70 € ISBN 978-3-531-17725-0 Usually dispatched within 3 to 5 business days.
**Deutsche Kommunen im Demographischen Wandel**

Eine Evaluation lokaler bevölkerungspolitischer Maßnahmen


**Features**  

**Contents**  
Demographischer Wandel als Herausforderung.  
Klarung grundlegender Begrifflichkeiten.  
Theoretische Vorüberlegungen.  
„Demographismus“: Demographie als Ideologie.  
Kommunale Bewältigung der demographischen Herausforderung.  
Bewältigungsmöglichkeiten: Modell der Frame-Selektion (MiFSS).  
Anwendungen.  
Operationalisierung.  
Die Folgen lokaler Demographisierungen.  

**Fields of interest**  
Sociology, general  

**Target groups**  
Research  

**Type of publication**  
Monograph  

More on www.springer.com/978-3-658-00546-7  

**Softcover**  
2013. XVII, 345 S. 37 Abb.  
46,68 €  
ISBN 978-3-658-00546-7  

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

---

**Die Infrastruktur des postindustriellen Wohlfahrtsstaats**

Organisation, Wandel, gesellschaftliche Hintergründe

Wohlfahrtsstaaten sind mehr als ein Ensemble sozialpolitischer Programme und rechtlicher Vorschriften. Sie bestehen gewissermaßen aus dem Fleisch und Blut von Gebilden bzw. Akteuren, die – indem sie gezielt auf die Wohlfahrt der Bevölkerung bezogene Leistungen vorhalten – soziale (und gesundheitsbezogene) Daseinsvorsorge konkret organisieren. Sie sind damit Teil einer Infrastruktur, deren Komplexität und Dynamik gerade im postindustriellen Zeitalter zunehmend unübersichtlicher wird. Das Buch bietet für den Fall Deutschlands (aber auch mit einem Seitenblick auf ausländische Verhältnisse) eine systematische Einführung in diese Infrastruktur; betrachtet werden die verschieden [...]  

**Features**  

**Contents**  
Der Wohlfahrtsstaat und seine Infrastruktur: Konzeptionelle Grundlagen.  
Infrastruktur konkret: Die Organisationsbasis sozialer Daseinsvorsorge.  
Infrastrukturwandel im Wohlfahrtsstaat.  
Zusammenfassung und Ausblick.  

**Fields of interest**  
Sociology, general; Social Sciences (general); Political Science, general; Organizational Studies, Economic Sociology  

**Target groups**  
Professional/practitioner  

**Type of publication**  
Professional book  

More on www.springer.com/978-3-531-19427-1  

**Softcover**  
37,37 €  
ISBN 978-3-531-19427-1  

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

---

**Die professionalisierte Mitgliederpartei**

Politische Parteien zwischen institutionellen Erwartungen und organisationaler Wirklichkeit


**Features**  
Politische Parteien sind komplexe Organisationen. Sie müssen auf vielfältige institutionelle Erwartungen reagieren und agieren in einem Spannungsfeld zwischen professionalisierter Berufspolitik und ehrenamtsbasiertem Mitgliedervereinigung. Die Studie bietet eine organisationstheoretisch fundierte, partienvergleichende Analyse der Organisationssstruktur und -kultur der deutschen Parteien. Es wird untersucht, [...]  

**Contents**  
Organisationstheoretische Grundlagen: Bürokratisch rationale und neoinstitutionalistische Ansätze.  
Parteien in organisationstheoretischer Perspektive.  
Parteirechtliche Vorgaben und organisationstrukturelle Wirklichkeit.  
The Party Central Offices: Struktur und Selbstverständnis.  
Parteienvergleichende Analyse der Organisationssstruktur und -kultur der deutschen Parteien.  

**Fields of interest**  
Social Sciences (general)  

**Target groups**  
Graduate  

**Type of publication**  
Monograph  


**Softcover**  
2013. XII, 305 S. 4 Abb.  
37,34 €  

**Usually dispatched within 3 to 5 business days.**
**Diskurs - Sprache - Wissen**

Interdisziplinäre Beiträge zum Verhältnis von Sprache und Wissen in der Diskursforschung


**Features**


**Contents**

Mit Beiträgen von Dietrich Busse, Rainer Diaz-Bone, Ekkehard Felder, Siegfried Jäger, Reiner Keller, Stefan Meier, Werner Schneider, Vivien Sommer, Willy Viehöver, Ingo Warnke, Martin Wengeler.

**Fields of interest**

Sociology, general

**Target groups**

Research

**Type of publication**

German textbook

More on www.springer.com/978-3-658-00637-2

**Softcover**

2013. VI, 286 S. 4 Abb. (Interdisziplinäre Diskursforschung)
32,66 €
ISBN 978-3-658-00642-7
Usually dispatched within 3 to 5 business days.

---

**Exportgut Kultur**

Aktuelle Situation und Perspektiven der populären Musik


**Features**

Die Luxemburger Rock- und Popszene pulsirt – allerdings in einem Land, in dem es bislang keine nennenswerte Musikindustrie gibt. Es stellt sich also die Frage, wie die in Luxemburg lebenden Kulturschaffenden ihre Kunst einem breiteren, d.h. internationalen Publikum zugänglich machen können. Tom Bellion gibt einen Überblick über die Rahmenbedingungen kulturellen Schaffens in Luxemburg und führt eine [...] 

**Contents**


**Fields of interest**

Cultural Management; Social Sciences (general)

**Target groups**

Research

**Type of publication**

Monograph

More on www.springer.com/978-3-658-00637-2

**Softcover**

2013. XX, 94 S. 15 Abb.
27,99 €
Usually dispatched within 3 to 5 business days.

---

**Gender, Work, and Family in a Chinese Economic Zone**

Laboring in Paradise

This book examines the dynamics of power within the families of married women who have migrated from rural areas to China’s Dalian Economic Zone. Engaging the question of whether waged work gives women power in their families, this ethnographic study finds that women do indeed use their new positions and urban status to negotiate their family status. However, women use these new resources not necessarily to promote their own individual liberation, but rather to strengthen their contribution as wives and, especially, as mothers. Thus, this new modernity provides a space for the re-inscribing of traditional roles, even as it may work to give women new-found power within their [...] 

**Features**

This book examines the dynamics of power within the families of married women who have migrated from rural areas to China’s Dalian Economic Zone. Engaging the question of whether waged work gives women power in their families, this ethnographic study finds that women do indeed use their new positions and urban status to negotiate their family status. However, women use these new resources not necessarily [...] 

**Contents**


**Fields of interest**

Gender Studies; Population Economics; Sociology, general

**Target groups**

Research

**Type of publication**

Monograph

More on www.springer.com/978-94-007-5523-9

**Hardcover**

99,95 €
ISBN 978-94-007-5523-9
Usually dispatched within 3 to 5 business days.
Gesellschaftspolitisches Denken in den USA

Eine Einführung


Features

Gesellschaftspolitisches Denken in den USA Dieses Buch bietet eine sehr klare, umfassende und systematische Einführung in die Theorie des Sozialen und des politischen in den USA. In einem ersten Teil werden die Haupttraditionen des amerikanischen Denkens vorgestellt: Politische Theologie, Republikanismus, Liberalismus und Pragmatismus. Der zweite Teil behandelt die zentralen Grundprobleme der [...] 

Contents


Fields of interest

Social Sciences (general); Political Science, general; Political Theory; Political Philosophy; Modern Philosophy; Pragmatism

Target groups

Lower undergraduate

Type of publication

German textbook

More on www.springer.com/978-3-531-19470-7

Handbook of Life-Course Criminology

Emerging Trends and Directions for Future Research

The wide-ranging scope of the Handbook of Life-Course Criminology covers genetics and environment, child offenders and late bloomers, the impact of school and peers, lifelong and time-limited criminal careers, and qualitative and quantitative methodologies. This unique Handbook is further set apart by its dual coverage of the leading edge of current research and innovative directions for future work in the field. Pathways to crime have been a central concept of criminology from its inception. Accordingly, a lifespan approach to the field has replaced earlier biological and sociological perspectives with a more nuanced understanding of offender behavior and a wider lens of study. The [...] 

Features

The Handbook of Life-Course Criminology covers genetics and environment, child offenders and late bloomers, the impact of school and peers, lifelong and time-limited criminal careers, and qualitative and quantitative methodologies. This unique Handbook is further set apart by its dual coverage of the leading edge of current research and innovative directions for future work in the field. [...] 

Contents


Fields of interest

Criminology & Criminal Justice; Personality and Social Psychology

Target groups

Research

Type of publication

Handbook

More on www.springer.com/978-1-4614-5112-9

Handbook of Social Resource Theory

Theoretical Extensions, Empirical Insights, and Social Applications

A ‘social resource’ refers to anything that is transacted between two people. It encompasses both the tangible (such as money and material goods) and the intangible (such as love, respect, information, or services) that are provided or withheld in people’s daily lives. The exchange and availability of social resources have a wide range of impacts on everyday life, to quality of life, to social status, to motivation. Understanding Social Resource Theory (SRT) is a key to both Social Psychology (both sociological and psychological), and Public Policy. The framework for the study of SRT is relatively new, beginning with an article by Uriel G. Foa in 1971. Since then, this [...] 

Features

Our lives as human beings are characterized by production and use of social resources, material (e.g., money and physical possessions) as well as immaterial (such as love, knowledge, and power). Distribution and exchange of these resources are central to individuals’ physical and mental health and quality of life. Over the past four decades, Social Resource Theory (SRT) has evolved to build vital [...] 

Contents


Fields of interest

Sociology, general; Social Policy; Quality of Life Research; Personality and Social Psychology

Target groups

Research

Type of publication

Handbook

More on www.springer.com/978-1-4614-4174-8

Handbook of Social Exchange Theory

Emerging Trends and Directions for Future Research

The wide-ranging scope of the Handbook of Social Exchange Theory covers genetics and environment, child offenders and late bloomers, the impact of school and peers, lifelong and time-limited criminal careers, and qualitative and quantitative methodologies. This unique Handbook is further set apart by its dual coverage of the leading edge of current research and innovative directions for future work in the field. Pathways to crime have been a central concept of criminology from its inception. Accordingly, a lifespan approach to the field has replaced earlier biological and sociological perspectives with a more nuanced understanding of offender behavior and a wider lens of study. The [...] 

Features

The Handbook of Social Exchange Theory covers genetics and environment, child offenders and late bloomers, the impact of school and peers, lifelong and time-limited criminal careers, and qualitative and quantitative methodologies. This unique Handbook is further set apart by its dual coverage of the leading edge of current research and innovative directions for future work in the field. [...] 

Contents


Fields of interest

Criminology & Criminal Justice; Personality and Social Psychology

Target groups

Research

Type of publication

Handbook

More on www.springer.com/978-1-4614-4174-8
Human-Environment Interactions
Current and Future Directions

Drawing on research from eleven countries across four continents, the 16 chapters in the volume bring perspectives from various specialties in anthropological and human ecology, institutional analysis, historical and political ecology, geography, anthropology, and land change sciences. The four sections of the volume reflect complementary approaches to HEI: health and adaptation approaches, land change and landscape management approaches, institutional and political-ecology approaches, and historical and archaeological approaches.

Features
Human-environment interaction (HEI) provides a framework that brings together scholarship sharing both disciplinary depth and interdisciplinary scope to examine past, present, and future social and environmental change in different parts of the world. This volume brings senior and junior scholars together, and in so doing connects these historically influential traditions to new and cutting-edge approaches [...]
Intelligent Data Mining in Law Enforcement Analytics
New Neural Networks Applied to Real Problems

This book provides a thorough summary of the means currently available to the investigators of Artificial Intelligence for making criminal behavior (both individual and collective) foreseeable, and for assisting their investigative capacities. The volume provides chapters on the introduction of artificial intelligence and machine learning suitable for an upper level undergraduate with exposure to mathematics and some programming skill or a graduate course. It also brings the latest research in Artificial Intelligence to life with its chapters on fascinating applications in the area of law enforcement, though much is also being accomplished in the fields of medicine and [...]

Features
This book provides a thorough summary of the means currently available to the investigators of Artificial Intelligence for making criminal behavior (both individual and collective) foreseeable, and for assisting their investigative capacities. The volume provides chapters on the introduction of artificial intelligence and machine learning suitable for an upper level undergraduate with exposure to mathematics and some programming skill or a graduate course. It also brings the latest research in Artificial Intelligence to life with its chapters on fascinating applications in the area of law enforcement, though much is also being accomplished in the fields of medicine and [...]

Contents
Dedication. - Preface. - Chapter 1. Introduction to Artificial Networks and Law Enforcement Analytics; William J. Tastle. - Chapter 2. Law Enforcement and Artificial Intelligence; Massimo Buscema. - Chapter 3. The General Philosophy of Artificial Adaptive Systems; Massimo Buscema. - Chapter 4. A Brief Introduction to Evolutionary Algorithms and the Genetic Doping Algorithm; M. Buscema, M. Capritti. - Chapter 5. Artificial Adaptive Systems in Data Visualization: Pro-Active data; Massimo Buscema. - Chapter 6. The Metropolitan Police Service Central Drug Trafficking Database: Evidence of Need; [...]
Menschenrechte und Demokratie
Perspektiven für die Entwicklung der Sozialen Arbeit als Professions- und wissenschaftliche Disziplin


Features
Inwieweit kann und muss eine auch weltweit zu denkende und zu konzipierende Soziale Arbeit sich im Referenzrahmen von Menschenrechten und Demokratie bewegen? Wie wird sie unter Einbindung neuer sozialer und ökologischer Bewegungen Antworten auf gesellschaftliche Problemlagen, soziale Notlagen und Missachtungen finden? Entscheidend für eine Annäherung zu Antworten auf diese Fragen wird sein, auf welche [...] 

Contents
Mit Beiträgen von Silvia Staub-Bernasoni, Michael Winkler, Fabian Kesz, Nivedita Prasad, Carsten Müller, Dieter Kohl, Nina Oelkers, Susanne Dungs, Sandro Bliemetsrieder, Markus Hundeck u.a.

Fields of interest
Social Work

Target groups
Research

Type of publication
Monograph
More on www.springer.com/978-3-531-19282-6

Softcover
2013, IX, 322 S. 2 Abb. (Soziale Arbeit in Theorie und Wissenschaft)
37,34 €
ISBN 978-3-531-19282-6

Usually dispatched within 3 to 5 business days.

Männer - die ewigen Gewalttäter?
Gewalt von und gegen Männer in Deutschland


Features
Männer, die Täter - Frauen, die Opfer - beschreibt diese geschlechterpolarisierende Gegenüberstellung angemessen die Realität eines so komplexen sozialen Phänomens wie es Gewalthandel darstellt? Auf Basis der Daten der im Auftrag der evangelischen und katholischen Männerarbeit durchgeführten und im Jahr 2009 vorgelegten Männerstudie „Männer in Bewegung“ (1470 befragte Männer und 970 befragte Frauen) wird [...] 

Contents

Fields of interest
Gender Studies

Target groups
Professional/practitioner

Type of publication
Professional book
More on www.springer.com/978-3-531-19664-0

Softcover
2013, XX, 156 S. 42 Abb.
23,32 €
ISBN 978-3-531-19664-0

Usually dispatched within 3 to 5 business days.

NGOs als Kapitalmarkakteure
Shareholder Engagement als Möglichkeit zur Einflussnahme auf Corporate Social Responsibility

Wann und wie nutzen Nichtregierungsorganisationen (NGOs) Shareholder Engagement, um Corporate Social Responsibility (CSR) zu befördern? Bei der Untersuchung dieser Frage bringt Catherine Burgy neue, bisher kaum systematisch untersuchte Aspekte in die politikwissenschaftliche Forschung zur privaten Selbstregulierung in der Global Governance ein. Angesichts eines Rollenwandels des Staates können NGOs das Verhalten wirtschaftlicher Akteure wie Unternehmen durch politische Mechanismen steuern, ohne dass diese zwingend auf staatlicher Regulierung beruhen müssen. Der Kapitalmarkt als Lenkungssystem, genauer – die Nutzung von Aktionärsrechten (Shareholder Engagement) – bietet NGOs dabei [...] 

Features
Wann und wie nutzen Nichtregierungsorganisationen (NGOs) Shareholder Engagement, um Corporate Social Responsibility (CSR) zu befördern? Bei der Untersuchung dieser Frage bringt Catherine Burgy neue, bisher kaum systematisch untersuchte Aspekte in die politikwissenschaftliche Forschung zur privaten Selbstregulierung in der Global Governance ein. Angesichts eines Rollenwandels des Staates können NGOs das [...] 

Contents
Staates können NGOs das Verhalten wirtschaftlicher Akteure wie Unternehmen durch politische Mechanismen steuern, ohne dass diese zwingend auf staatlicher Regulierung beruhen müssen. Der Kapitalmarkt als Lenkungssystem, genauer – die Nutzung von Aktionärsrechten (Shareholder Engagement) – bietet NGOs dabei [...] 

Fields of interest
Social Sciences (general)

Target groups
Research

Type of publication
Monograph
More on www.springer.com/978-3-658-00221-3

Softcover
2013, XVI, 291 S. 11 Abb.
37,34 €
ISBN 978-3-658-00221-3

Usually dispatched within 3 to 5 business days.
Nichtwestliches politisches Denken
Zwischen kulturellen Differenz und Hybridierung
Bei der kulturüberschreitenden Auseinandersetzung mit politischem Denken entstehen unweigerlich Fragen: Welche Probleme ergeben sich, wenn engagierte Auseinandersetzungen und inhaltliche Analysen über Kulturgrenzen hinweg stattfinden, und was folgt daraus für mögliche Ansätze und Methoden einer transkulturell orientierten Politischen Theorie? Wie verhalten sich ‘westliche’ und ‘nichtwestliche’ politische Ideen zueinander? Wo ziehen die Diskursteilnehmer Trennlinien, wo kommt es zu Hybridisierungen? Gibt es Anschlussmöglichkeiten für die empirische Forschung? Die im vorliegenden Band versammelten Beiträge widmen sich diesen Fragen kultureller Differenz an konkreten Beispielen.[…]

Features
Bei der kulturüberschreitenden Auseinandersetzung mit politischem Denken entstehen unweigerlich Fragen: Welche Probleme ergeben sich, wenn engagierte Auseinandersetzungen und inhaltliche Analysen über Kulturgrenzen hinweg stattfinden, und was folgt daraus für mögliche Ansätze und Methoden einer transkulturell orientierten Politischen Theorie? Wie verhalten sich „westliche“ und „nichtwestliche“ politische […]

Contents

Fields of interest
Political Science, general; Political Theory

Target groups
Professional/practitioner

Type of publication
Monograph

More on www.springer.com/978-3-658-00554-2

Softcover
2012. IX, 218 S. 8 Abb. (Trans- und interkulturelle Politische Theorie und Ideengeschichte)
32,66 €
Usually dispatched within 3 to 5 business days.

Optimierte Zielgruppenansprache
Werbende Kommunikation im Spannungsfeld von Kulturen und Stakeholder-Interessen
Der Band bietet die Ergebnisse des internationalen Forschungsprojekts Identitätsbildung im europäischen Geschäftbericht – Shaping Identities in European Annual Reports, der in Kooperation zwischen Universitäten aus Deutschland, Dänemark, den Niederlanden und Finnland entstanden ist. Die Beiträge zeigen, wie sich die Frage der einzigartigen Positionierbarkeit sowohl aus unternehmensstrategischer als auch aus nationaler Perspektive systematisch erfassen und gewinnbringend umsetzen lässt. Neben ausgiebigen kulturkontrastiven Untersuchungen zu Tendenzen und Entwicklungen im heutigen europäischen Umfeld werden auch jeweils Konsequenzen für die Anwendbarkeit der Ergebnisse im […]

Features
Die AutorInnen gehen der Frage nach, wie zielgruppenbezogene Kommunikation optimiert werden kann. In detaillierten Analysen von Geschäftsberichten, Pressemittellungen sowie in Studien aus den Bereichen CSR-Kommunikation, Tourismus-Marketing, Location-Based Services, Guerilla-Marketing und SportspONSoring arbeiten sie die aktuellen Gestaltungsbedingungen innerhalb verschiedener Medien heraus. Anhand […]

Contents

Fields of interest
Communication Studies

Target groups
Research

Type of publication
Monograph

More on www.springer.com/978-3-531-19442-4

Softcover
2013. XXI, 290 p. 20 illus. 46,68 €
ISBN 978-3-531-19442-4
Usually dispatched within 3 to 5 business days.
Paradoxes of Integration: Female Migrants in Europe

This timely and innovative book analyses the lives of new female migrants in the EU with a focus on the labour market, domestic work, care work and prostitution in particular. It provides a comparative analysis embracing eleven European countries from Northern (UK, Germany, Sweden, France), Southern (Portugal, Spain, Italy, Greece, Cyprus) and Eastern Europe (Poland, Slovenia), i.e. old and new immigration countries as well as old and new market economies. It maps labour market trends, welfare policies, migration laws, patterns of employment, and the working and social conditions of female migrants in different sectors of the labour market, formal and informal. It is particularly [...]
Perspektiven der Biotechnologie-Kommunikation

**Contents**
Einführung - Biotechnologie-Kontroversen - Biotechnologie-Kommunikation: Randbedingungen - Kommunikation und Beteiligung - Fazit und Empfehlungen

**Fields of interest**
Sociology, general; Plant Breeding / Biotechnology; Science

**Target groups**
Research

**Type of publication**
Monograph

**More on** www.springer.com/978-3-642-33952-3

**Softcover**
2012. 47 S. 6 Abb. in Farbe. (acatech POSITION)
28,03 €
ISBN 978-3-642-33952-3

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

---

Perspektiven der Kunstsoziologie

**Praxis, System, Werk**

Der vorliegende Band fasst verschiedene neuere soziologische Perspektiven auf die Kunst zusammen, die auf der ersten Tagung des Arbeitskreises Kunstsoziologie diskutiert wurden. Primär geht es hierbei um Analysen von Praktiken, Systemen, Kunstwerken sowie Kunstorten, die in den verschiedenen Beiträgen je nach Schwerpunktsetzung theoretisch und/oder empirisch untersucht werden. Infolge des Anspruchs, neuere Perspektiven der deutschsprachigen Soziologie auf die Kunst zusammenzuführen, ist der Band insgesamt offen angelegt. So finden sich neben theoretischen Beiträgen auch empirische Arbeiten zu unterschiedlichen Formen der Kunst wie etwa der Bildenden Kunst, Theater und Film oder aus [...]

**Features**
Der vorliegende Band fasst verschiedene neuere soziologische Perspektiven auf die Kunst zusammen, die auf der ersten Tagung des Arbeitskreises Kunstsoziologie diskutiert wurden. Primär geht es hierbei um Analysen von Praktiken, Systemen, Kunstwerken sowie Kunstorten, die in den verschiedenen Beiträgen je nach Schwerpunktsetzung theoretisch und/oder empirisch untersucht werden. Infolge des Anspruchs, neuere [...]

**Contents**

**Fields of interest**
Sociology, general; Cultural Studies; Interdisciplinary Studies; Arts

**Target groups**
Professional/practitioner

**Type of publication**
Professional book

**More on** www.springer.com/978-3-531-19005-1

**Softcover**
2013. VI, 223 S. 14 Abb, 13 in Farbe. (Kunst und Gesellschaft, Vol. -)
32,66 €
ISBN 978-3-531-19005-1

**Usually dispatched within 3 to 5 business days.**
Political (Re)Turn?
Impulse zu einem neuen Verhältnis von Jugendarbeit und Jugendpolitik

Features

Fields of interest
Social Work

Target groups
Professional/practitioner

Type of publication
Professional book

More on www.springer.com/978-3-531-18623-8

Softcover
2012. XIV, 337 S. (Pädagogik und Gesellschaft, Vol. 3)  
37,34 €  
ISBN 978-3-531-18105-9

Online orders shipping within 2-3 days.

Rationalitäten des Kinderschutzes
Kindeswohl und soziale Interventionen aus pluraler Perspektive

Features
Fragen des Kinderschutzes sind so aktuell wie auch Gegenstand heißer Kontroversen. Soziale Interventionen in diesem Bereich werden durch verschiedene Zugänge und Handlungsansätze geprägt, die eine Vielfalt von Rationalitäten widerspiegeln. In dem Band wird aufgezeigt, wie diese Rationalitäten die Praxis des Feldes, dessen politisch-administrative und rechtliche Normierung und die von den beteiligten Akteuren [...]  

Contents
Rationalitäten der Regulierung: Kontinuität und Wandel aus verschiedenen Blickwinkeln. - Rationalitäten des (lokalen) Feldes: Kinderschutz empirisch betrachtet. - Rationalitäten intervenernder praxis: Konzepte und Perspektiven

Fields of interest
Social Work; Childhood Education

Target groups
Professional/practitioner

Type of publication
Professional book

More on www.springer.com/978-3-531-18623-8

Softcover
37,34 €  
ISBN 978-3-531-18623-8

Online orders shipping within 2-3 days.

Raumbezogene qualitative Sozialforschung

Features
Die AutorInnen aus der Humangeographie und Soziologie leisten einen Beitrag zur raumbezogenen qualitativen Sozialforschung, indem sie in kritischer Reflexion auf den spatial turn die soziale Welt erforschen und interpretieren. Einer schlagwortartig vorgebrachten Renaissance des Raumes in den Sozial- und Kulturwissenschaften werden konkrete qualitativ-empirische und theoretisch-konzeptionelle Arbeiten [...]  

Contents

Fields of interest
Human Geography; Sociology, general

Target groups
Research

Type of publication
Monograph

More on www.springer.com/978-3-531-16833-3

Softcover
2013. VI, 304 S. 14 Abb.  
27,99 €  
ISBN 978-3-531-16833-3

Usually dispatched within 3 to 5 business days.
Reforms in Long-Term Care Policies in Europe

Investigating Institutional Change and Social Impacts

Over the last two decades, many changes have happened to the social welfare policies of various industrial countries. Citizens have seen their pensions, unemployment benefits, and general healthcare policies shrink as “belt tightening” measures are enforced. But in contrast, long-term care has seen a general growth in public financing, an expansion of beneficiaries, and, more generally, an attempt to define larger social responsibilities and related social rights. The aim of this book is to describe and interpret the changes introduced in long-term care policies in Western Europe. The volume argues that recent reforms have brought about an increasing convergence in LTC policies.

Features
Reforms in Long Term Care Policies in Europe describes and interprets the changes recently introduced in long-term care policies in Western Europe. The volume argues that recent reforms have brought about an increasing convergence in LTC policies across Western Europe. Most of the new programs have developed a new general approach to long-term care, based on a better integration of social care and health care.

Fields of interest
Aging; Public Health; Social Policy; Geriatrics / Gerontology

Target groups
Research

Type of publication
Contributed volume


Hardcover

Usually dispatched within 3 to 5 business days.

Religion und Politik im vereinigten Deutschland

Was bleibt von der Rückkehr des Religiösen?


Features

Fields of interest
Political Theory; Political Science, general; Sociology, general

Target groups
Professional/practitioner

Type of publication
Professional book

More on www.springer.com/978-3-531-18344-2

Softcover

Usually dispatched within 3 to 5 business days.

Resilience Thinking in Urban Planning

There is consensus in literature that urban areas have become increasingly vulnerable to the outcomes of economic restructuring under the neoliberal political economic ideology. The increased frequency and widening diversity of problems offer evidence that the socio-economic and spatial policies, planning and practices introduced under the neoliberal agenda can no longer be sustained. As this shortfall was becoming more evident among urban policymakers, planners, and researchers in different parts of the world, a group of discontent researchers began searching for new approaches to addressing the increasing vulnerabilities of urban systems in the wake of growing socio-economic and [...]

Features
There is consensus in literature that urban areas have become increasingly vulnerable to the outcomes of economic restructuring under the neoliberal political economic ideology. The increased frequency and widening diversity of problems offer evidence that the socio-economic and spatial policies, planning and practices introduced under the neoliberal agenda can no longer be sustained. As this shortfall was [...]

Contents

Fields of interest
Human Geography; Landscape, Regional and Urban Planning; Regional Science; Cities, Countries, Regions

Target groups
Research

Type of publication
Contributed volume

More on www.springer.com/978-94-007-5475-1

Hardcover

Usually dispatched within 3 to 5 business days.
Resilienzentwicklung im Personalmanagement

U. Götze, Hamburg, Deutschland

Die Entwicklung der psychischen Widerstands-
fähigkeit gewinnt in der Personalentwicklung zunehmend an Attraktivität. Den Trend setzen vor allem freiberuflich tätige Coaches, die mit ihren KlientInnen Resilienz entwickeln, um den in der Arbeitswelt zunehmenden Risikofaktoren, u.a. hoher Leistungsdruck und Überforderung, besser stand-
halten zu können. Ulrike Götze diskutiert dieses Konzept und bestehende Fördermodelle. Auf der Basis von Experteninterviews prüft sie die Bedeutung des Resilienzkonzepts für das Human-Resource-
Management und zeigt Möglichkeiten und Grenzen seiner Anwendung auf.

Contents
Die Veränderungen in der Arbeitswelt.- Das Resilienzkonzept.- Andere Konzepte zum Umgang mit Belastungen.- Das Resilienzphänomen im Kon-
text von Human-Resource-Management.- Die Bedeutung der Resilienzförderung bei Mitarbeit-
ern.- Resilienzcoaching in der Praxis – eine kritische Entwicklung?.- Datenerhebung.- Datenauswert-
ung.- Reflexion und Handlungsempfehlungen für Unternehmen.

Fields of interest
Sociology, general

Target groups
Research

Type of publication
Monograph

More on www.springer.com/978-3-531-19509-4

Risk Regulation in Europe

J. Tosun

Soziale Inklusion

H.-J. Bäz, Evangelische Fachhochschule RWL, Bochum; B. Benz, Evangelische Fachhochschule RWL, Bochum; C. Kühmann, Evan-
gelische Fachhochschule RWL, Bochum (Eds.)

Assessing the Application of the Precautionary Principle

The publication aims to familiarize students of public policy with the precautionary principle, which plays a vital role in the European Union’s approach toward regulating risks. The precautionary princi-
ple contends that policy makers should refrain from actions having a suspected risk of causing harm to the public and/or the environment. However, the precautionary principle only provides guidance to policy makers but does not prescribe specific policy responses. Therefore, there should be variation in the way the principle is applied. Furthermore, precau-
tionary measures are, in principle, of a provisional nature, suggesting that they are likely to be subject to changes over time.[...]

Features
The publication aims to familiarize students of public policy with the precautionary principle, which plays a vital role in the European Union’s approach toward regulating risks. The precautionary princi-
ple contends that policy makers should refrain from actions having a suspected risk of causing harm to the public and/or the environment. However, the precautionary principle only provides guidance to policy [...]

Contents
Introduction.- The precautionary principle.- Case Study 1: Ban of imports of hormone-treated beef.- Case Study 2: Ban of the natural sweetener Stevia.- Case Study 3: Legalization of genetically modified crops.- Explaining the uneven application of the pre-
cautious principle.- Conclusion.

Fields of interest
Political Science, general; Economic Policy

Target groups
Research

Type of publication
Brief


Softcover
2013. XI, 102 p. 1 illus. (SpringerBriefs in Political Science, Vol. 3)
49,95 €
Usually dispatched within 3 to 5 business days.

Grundlagen, Strategien und Projekte in der Sozialen Arbeit

Der Inklusionsbegriff hat sich im Spannungsfeld von Integration, Partizipation und Gleichstel-
lung zu positionieren, um an fachliche Diskurse anzuschließen und gleichzeitig das Neue und Andere in der Idee der Inklusion herauszuarbeiten. Wichtig sind neben der konzeptuellen Klarheit die Transfor-
mation und Aufbau der Grundlagen des Schulkultur und konkrete Handeln der psychosozialen Fachkräfte. Das Buch lotet kritisch würdigend, wissenschaftlich reflektiert und praktisch handlungsorientiert den Stellenwert und die Implikationen von Inklusion für die Arbeit im Sozialwesen aus.

Features
Der Inklusionsbegriff hat sich im Spannungsfeld von Integration, Partizipation und Gleichstel-
lung zu positionieren, um an fachliche Diskurse anzuschließen und gleichzeitig das Neue und Andere in der Idee der Inklusion herauszuarbeiten. Wichtig sind neben der konzeptuellen Klarheit die Transfor-
mation und Aufbau der Grundlagen des Schulkultur und konkrete Handeln der psychosozialen Fachkräfte. Das Buch lotet kritisch [...]

Contents
Grundlagen und theoretische Zugänge: Integra-
tion, Partizipation und Gleichstellung.- Inklusions- und pädagogische Erkenntnisse.- Konzeptualisierung der Inklusion.- Politik sozialer Inklusion in formaler, inhaltlicher und prozeduraler Perspektive.- Gemein-
wesenarbeit und Inklusion.- Inklusive Bildung als internationale Leitidee und pädagogische Heraus-
förderung.- Good Practice: Intagationsförderung in der schulischen Praxis.- Schulfördertätigkeit und Multikulturalität.- Förderung von[...]

Fields of interest
Social Work

Target groups
Professional/practitioner

Type of publication
Professional book

More on www.springer.com/978-3-531-18557-6

Softcover
2012. VII, 322 S.
37,34 €
ISBN 978-3-531-18557-6
Online orders shipping within 2-3 days.
Spatial Microsimulation: A Reference Guide for Users

This book is a practical guide on how to design, create and validate a spatial microsimulation model. These models are becoming more popular as academics and policy makers recognise the value of place in research and policy making. Recent spatial microsimulation models have been used to analyse health and social disadvantage for small areas; and to look at the effect of policy change for small areas. This provides a powerful analysis tool for researchers and policy makers. This book covers preparing the data for spatial microsimulation; a number of methods for both static and dynamic spatial microsimulation models; validation of the models to ensure the outputs are reasonable; and the features.

Features
This book is a practical guide on how to design, create and validate a spatial microsimulation model. These models are becoming more popular as academics and policy makers recognise the value of place in research and policy making. Recent spatial microsimulation models have been used to analyse health and social disadvantage for small areas; and to look at the effect of policy change for small areas. This book covers preparing the data for spatial microsimulation; a number of methods for both static and dynamic spatial microsimulation models; validation of the models to ensure the outputs are reasonable; and the features.

Contents

Fields of interest
Demography; Statistics for Business, Economics, Mathematical Finance, Insurance; Geography (general); Quality of Life Research

Target groups
Research

Type of publication
Contributed volume

More on www.springer.com/978-3-658-00657-0

Social Sciences 213

Steps Toward a Planning Framework for Elder Care in the Arab World

This book reviews the elder care literature pertaining to the Arab world and proposes steps that can be taken to improve the health and quality of life of older people in this region. Organized in three main sections (Program Assessment, Program Planning, Conclusions and Recommendations), the book addresses such topics as developing a conceptual framework; Arab world elder demographics; quality of life issues; demand for services; training issues; capacity and capabilities; and conclusions and recommendations for improving the health of older persons in the Arab world. While the countries of the Arab world have the advantage of a unified language and culture that can be used.

Features
This book reviews the elder care literature pertaining to the Arab world and proposes steps that can be taken to improve the health and quality of life of older people in this region. Organized in three main sections (Program Assessment, Program Planning, Conclusions and Recommendations), the book addresses such topics as developing a conceptual framework; Arab world elder demographics; quality of life issues; demand for services; training issues; capacity and capabilities; and conclusions and recommendations for improving the health of older persons in the Arab world. While the countries of the Arab world have the advantage of a unified language and culture that can be used.

Contents

Fields of interest
Aging; Health Psychology; Demography; Public Health; Quality of Life Research

Target groups
Research

Type of publication
Brief

More on www.springer.com/978-1-4614-5977-4

Tat-Ort Medien

Die Medien als Akteure und unterhaltsame Aktivister

Der Alltag menschlichen Zusammenlebens in modernen (nicht nur) westlichen Gesellschaften ist durch eine tiefgreifende und umfassende Medialisierung gekennzeichnet: Medien spielen bei der kommunikativen Konstruktion von Wirklichkeit eine immer gewichtigere Rolle - vor allem dadurch, dass sie neben den Kommunikationseinheiten auch die Kommunikationsformen und das kommunikative und gesellschaftliche Handeln maßgeblich beeinflussen. Medien werden auch im Bereich der Inneren Sicherheit zunehmend eigenständige Akteure, die auf die Sicherheit ihrer Kunden achten und in deren Interesse selbst aktiv werden. Medien werden darüber hinaus auch aktivierer, die ihre Kunden unterhaltsam dazu [...]
Unberechenbare Umwelt
Zum Umgang mit Unsicherheit und Nicht-Wissen


Features

Fields of interest
Social Sciences (general); Sociology, general

Target groups
Research

Type of publication
Monograph

More on www.springer.com/978-3-531-18295-7

Softcover
2013. VI, 270 S. 14 Abb., 9 in Farbe. 37,34 €
ISBN 978-3-531-18295-7

Usually dispatched within 3 to 5 business days.

B. Ewert, Gießen

Vom Patienten zum Konsumenten?
Nutzerbeteiligung und Nutzeridentitäten im Gesundheitswesen


Features
Patienten sind keine Konsumenten. Mit dieser Behauptung wird im allgemeinen das Primat der medizinischen Kriterien gegenüber ökonomischen Erwägungen im Gesundheitswesen verteidigt. Benjamin Ewert hat sich zum Ziel gesetzt, diese eindimensionale Rollenzuweisungen im Gesundheitswesen kritisch in Frage zu stellen und aufzuzeigen, dass sie die Versorgungsrealität nur unzureichend widerspiegelt. In seiner[...]

Contents

Fields of interest
Social Sciences (general); Social Structure, Social Inequality

Target groups
Research

Type of publication
Monograph

More on www.springer.com/978-3-658-00432-3

Softcover
2012. XI, 268 S. 8 Abb. 32,66 €
ISBN 978-3-531-18190-5

Online orders shipping within 2-3 days.

M. Koch, Universität Bielefeld (Ed.)

Weltorganisationen
Dieses Buch schlägt mit Weltorganisationen ein Konzept für die Beschreibung und Untersuchung internationaler Organisationen vor und diskutiert dessen Mehrwert in begrifflich-konzeptioneller, theoretischer und empirischer Hinsicht. Im Vordergrund steht die Frage, was das Konzept der Weltorganisation im Gegensatz zu etablierten Konzepten zu leisten vermag und wie sich damit ausgewählte internationale Organisationen untersuchen lassen. Die im Buch versammelten Beiträge reichen von begriffshistorischen Einordnungen, über unterschiedliche theoretische Rahmungen bis hin zu stärker empirisch gelagerten Untersuchungen einzelner internationaler Organisationen.

Features
Dieses Buch stellt mit Weltorganisationen ein begriffliches Konzept für internationale Organisationen vor und diskutiert dessen Mehrwert in theoretisch-konzeptioneller und empirischer Hinsicht. Im Vordergrund steht die Frage, was das Konzept der Weltorganisation im Gegensatz zu etablierten Konzepten zu leisten vermag und wie sich damit ausgewählte internationale Organisationen analysieren lassen.

Fields of interest
Organizational Studies, Economic Sociology

Target groups
Professional/practitioner

Type of publication
Professional book

More on www.springer.com/978-3-531-18190-5
Wenn die Populisten kommen
Beiträge zum Zustand der Demokratie und des Parteiensystems


Features
„Ich bin Waldorlführer“

Einstellungen, Erfahrungen, Diskussionspunkte – Eine Befragungsstudie


Features
Die AutorInnen ermitteln Arbeitsbedingungen, Arbeitszufriedenheit sowie verschiedene Aspekte der beruflichen Belastung von WaldorflerInnen und deren Bewältigung sowohl vor dem Hintergrund allgemeiner Schulsystembedingungen als auch waldorfspezifischer Besonderheiten (z. B. kollegiale Schullführung, pädagogischer Ethos). Bei ausgewählten Inhalten werden Vergleiche mit Aussagen von LehrerInnen an öffentlichen [...] 

Contents

Fields of interest
Social Sciences (general)

Target groups
Research

Type of publication
Monograph

More on www.springer.com/978-3-531-19810-1

Softcover
37,34 €
ISBN 978-3-531-19810-1

Usually dispatched within 3 to 5 business days.

Statistics
A.B. Miller, University of Toronto, Ontario, Canada (Ed.)

Epidemiologic Studies in Cancer Prevention and Screening

Epidemiologic Studies in Cancer Prevention and Screening is the first comprehensive overview of the evidence base for both cancer prevention and screening. This book is directed to the many professionals in government, academia, public health and health care who need up to date information on the potential for reducing the impact of cancer, including physicians, nurses, epidemiologists, and research scientists. The main aim of the book is to provide a realistic appraisal of the evidence for both cancer prevention and cancer screening. In addition, the book provides an accounting of the extent programs based on available knowledge have impacted populations. It does this through: [...]

Features
Epidemiologic Studies in Cancer Prevention and Screening is the first comprehensive overview of the evidence base for both cancer prevention and screening. This book is directed to the many professionals in government, academia, public health and health care who need up to date information on the potential for reducing the impact of cancer, including physicians, nurses, epidemiologists, and research [...] 

Contents

Fields of interest
Statistics (general); Statistics for Life Sciences, Medicine, Health Sciences

Target groups
Professional/practitioner

Type of publication
Manual

More on www.springer.com/978-1-4614-5739-8

Softcover
2013. XXVIII, 413 p. 213 illus., 183 in color.
44,95 €
ISBN 978-1-4614-5739-8

Usually dispatched within 3 to 5 business days.


This reference manual for the OpenStat software, an open-source software developed by William Miller, covers a broad spectrum of statistical methods and techniques. A unique feature is its compatibility with many other statistical programs. OpenStat users are researchers and students in the social sciences, education, or psychology, who benefit from the hands on approach to Statistics. During and upon completion of courses in Statistics or measurement, students and future researchers need a low cost computer program available to them, and OpenStat fills this void. The software is used in Statistics courses around the world with over 50,000 downloads per year. The manual covers [...] 

Features
This reference manual for the OpenStat software, an open-source software developed by William Miller, covers a broad spectrum of statistical methods and techniques. A unique feature is its compatibility with many other statistical programs. OpenStat users are researchers and students in the social sciences, education, or psychology, who benefit from the hands on approach to Statistics. During and upon [...] 

Contents

Fields of interest
Statistics (general); Statistics for Social Science, Behavioral Science, Education, Public Policy, and Law; Statistical Theory and Methods

Target groups
Lower undergraduate

Type of publication
Manual

More on www.springer.com/978-1-4614-5739-8

Softcover
2013. XXVIII, 413 p. 213 illus., 183 in color.
44,95 €
ISBN 978-1-4614-5739-8

Usually dispatched within 3 to 5 business days.


This reference manual for the OpenStat software, an open-source software developed by William Miller, covers a broad spectrum of statistical methods and techniques. A unique feature is its compatibility with many other statistical programs. OpenStat users are researchers and students in the social sciences, education, or psychology, who benefit from the hands on approach to Statistics. During and upon completion of courses in Statistics or measurement, students and future researchers need a low cost computer program available to them, and OpenStat fills this void. The software is used in Statistics courses around the world with over 50,000 downloads per year. The manual covers [...] 

Features
This reference manual for the OpenStat software, an open-source software developed by William Miller, covers a broad spectrum of statistical methods and techniques. A unique feature is its compatibility with many other statistical programs. OpenStat users are researchers and students in the social sciences, education, or psychology, who benefit from the hands on approach to Statistics. During and upon [...] 

Contents

Fields of interest
Statistics (general); Statistics for Social Science, Behavioral Science, Education, Public Policy, and Law; Statistical Theory and Methods

Target groups
Lower undergraduate

Type of publication
Manual

More on www.springer.com/978-1-4614-5739-8

Softcover
2013. XXVIII, 413 p. 213 illus., 183 in color.
44,95 €
ISBN 978-1-4614-5739-8

Usually dispatched within 3 to 5 business days.
Selected Works of Peter J. Bickel

This volume presents selections of Peter J. Bickel’s major papers, along with comments on their novelty and impact on the subsequent development of statistics as a discipline. Each of the eight parts concerns a particular area of research and provides new commentary by experts in the area. The parts range from Rank-Based Nonparametrics to Function Estimation and Bootstrap Resampling. Peter’s amazing career encompasses the majority of statistical developments in the last half-century or about half of the entire history of the systematic development of statistics. This volume shares insights on these exciting statistical developments with future generations of statisticians. The [...]
The Naïve Bayes Model for
Unsupervised Word Sense
Disambiguation

Aspects Concerning Feature Selection

This book presents recent advances (from 2008 to 2012) concerning use of the Naïve Bayes model in unsupervised word sense disambiguation (WSD). While WSD, in general, has a number of important applications in various fields of artificial intelligence (information retrieval, text processing, machine translation, message understanding, man-machine communication etc.), unsupervised WSD is considered important because it is language-independent and does not require previously annotated corpora. The Naïve Bayes model has been widely used in supervised WSD, but its use in unsupervised WSD has led to more modest disambiguation results and has been less frequent. It seems that the potential of [...]
Yes, please send me:

<table>
<thead>
<tr>
<th>Copies</th>
<th>ISBN</th>
<th>€  / £</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Please bill me

Please charge my credit card:  
- Eurocard/Access/Mastercard  
- Visa/Barclaycard/Bank/Americard  
- AmericanExpress

Number ___________________________  Valid until ____________

Please order from your bookseller:

<table>
<thead>
<tr>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dept.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Street</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>City / ZIP-Code</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Date ✗</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Signature ✗</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>