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From Data and Information Analysis to Knowledge Engineering Myra Spiliopoulou 2006-04-20 This volume collects revised versions of papers presented at the 29th Annual Conference of the Gesellschaft für Klassifikation, the German Classification Society, held at the Otto-von-Guericke-University of Magdeburg, Germany, in March 2005. In addition to traditional subjects like Classification, Clustering, and Data Analysis, coverage extends to a wide range of topics relating to Computer Science: Text Mining, Web Mining, Fuzzy Data Analysis, IT Security, Adaptivity and Personalization, and Visualization.

**Perspectives on Integrated Coastal Zone Management** Wim Salomons 2012-12-06 All coastal areas are facing a growing range of stresses and shocks, the scale of which now poses threats to the resilience of both human and environmental coastal systems. Responsible agencies are seeking better ways of managing the causes and consequences of the environmental change process in coastal zones. This volume discusses the basic principles underpinning a more integrated approach to coastal management and highlights the obstacles that may be met in practice in both developed and developing countries. Successful strategies will have to encompass all the elements of management, from planning and design through financing and implementation, as highlighted in this book.

*The Mirror Neuron System* Christian Keysers 2016-06 Mirror neurons are premotor neurons, originally discovered in the macaque brain, that discharge both during execution of goal-directed actions and during the observation of similar actions executed by another individual. They therefore *mirror* others' actions on the observer's motor repertoire. In the last decade an impressive amount of work has been devoted to the study of their properties and to investigate if they are present also in our species. Neuroimaging and electrophysiological techniques have shown that a mirror-neuron system does exist in the human brain as well. Among *mirror* human areas, Broca's area (the frontal area for speech production) is almost constantly activated by action observation. This suggests a possible evolutionary link between action understanding and verbal communication. In the most recent years, mirror-like phenomena have been demonstrated also for domains others than the pure motor one. Examples of that are the somatosensory and the emotional systems, possibly providing a neurophysiological basis to phenomena such as embodiment and empathy. This special issue collects some of the most representative works on the mirror-neuron system to give a panoramic view on current research and to stimulate new experiments in this exciting field.

Formula 1 Technical Analysis 2016/2018 Giorgio Piola 2019-09-03 The last edition of an automotive literary classic: the technical analysis of Formula 1 penned by Giorgio Piola. After 25 years of publication, the historic draughtsman is bringing

the curtain down on this experience with a volume that examines the last three seasons, from 2016 to 2018, as always reviewing the principal technical innovations in the spheres of chassis and engine design. This three-year analysis is appropriately completed with a retrospective of some of Piola's most important drawings from a 50-year career that began back in 1969. Formula 1 Technical Analysis is the only book of its kind that unveils all the technical secrets - even the most carefully hidden ones - of the Formula 1 World Championship cars. Engines, chassis, brakes, tires, this is an especially rigorous analysis of the car, but also their steering wheels and suspension. An essential for real Formula 1 enthusiasts for almost 30 years, this annual, this book also reviews in its second part the main new technical developments devised by the various teams during the covered seasons. The book is illustrated by more than 500 color technical designs, created by Piola himself.

**The Epidemiology of Plant Diseases** B.M. Cooke 2006-03-29 Plant disease epidemiology is a dynamic science that forms an essential part of the study of plant pathology. This book brings together a team of 35 international experts. Each chapter deals with an essential component of the subject and allows the reader to fully understand how each exerts its influence on the progress of pathogen populations in plant populations over a defined time scale. This edition has new, revised and updated chapters.

**Electronic Portable Instruments** Halit Eren 2003-10-16 With the availability of advanced technologies, digital systems, and communications, portable instruments are rapidly evolving from simple, stand alone, low-accuracy measuring instruments to complex multifunctional, network integrated, high-performance digital devices with advanced interface capabilities. The relatively brief treatments these instruments receive in many books are no longer adequate. Designers, engineers and scientists need a comprehensive reference dedicated to electronic portable instruments that explains the state-of-art and future directions. *Electronic Portable Instruments: Design and Applications* introduces the basic measurement and instrumentation concepts, describes the operating principles, and discusses the typical specifications of three main groups of portable instruments: Portable and handheld instruments built for specific applications Intelligent sensor-based devices with few components and dedicated features, such as implantable medical devices Portable data systems containing fixed sensors and supporting mechanisms, but equipped with advanced communications capabilities, such as mobile weather stations The author discusses sensors suitable for these instruments, addresses how components are selected, and clearly shows that instrument design centers on trade-offs between costs, performance, size and weight, power consumption, interface options, ruggedness, and the ability to operate in a range of

environments. A multitude of tables, formulae, and figures--many in full color--enhance the presentation. Numerous examples of applications demonstrate the current diversity of these devices and point the way to future trends in development and applications.

**How to Brand Nations, Cities and Destinations** T. Moilanen 2008-12-14 Usually, a country brand is not focused, resulting in unsuccessful place branding. It is possible to successfully raise your national identity to the level of an attractive brand. Building a country brand is an investment, with strong positive returns. This book will guide you along the path to building a successful brand.

The Oral Palimpsest Christos Tsagalis 2008 Tsagalis argues that just as the discarded text of a palimpsest still carries traces of its previous writing, so the Homeric tradition unfolds its awareness of alternate versions as it reveals signs of their erasure.

Affective Relations and Personal Bonds in Hellenistic Antiquity Monica D'Agostini 2020-12-31 The intense bonds among the king and his family, friends, lovers, and entourage are the most enticing and intriguing aspects of Alexander the Great's life. The affective ties of the protagonists of Alexander's Empire nurtured the interest of the ancient authors, as well as the audience, in the personal life of the most famous men and women of the time. These relations echoed through time in art and literature, to become paradigm of positive or negative, human behavior. By rejecting the perception of the Macedonian monarchy as a positivist king-army based system, and by looking for other political and social structures Elizabeth Carney has played a crucial role in prompting the current re-appraisal of the Macedonian monarchy. Her volumes on Women and Monarchy in Ancient Macedonia (University of Oklahoma Press, 2000), Olympias: Mother of Alexander the Great (Routledge, 2006), Arsinoë of Egypt and Macedon: A Royal Life (Oxford University Press, 2013) have been game-changers in the field and has offered the academic world a completely new perspective on the network of relationships surrounding the exercise of power. By examining Macedonian and Hellenistic dynastic behavior and relations, she has shown the political yet tragic, heroic thus human side, thus connecting Hellenistic political and social history. Building on the methodological approach and theoretical framework engendered by Elizabeth Carney's research, this book explores the complex web of personal relations, inside and outside the oikos (family), governing Alexander's world, which sits at the core of the inquiry into the human side of the events shedding light on the personal dimension of history. Inspired by Carney's seminal work on Ancient Macedonia, the volume moves beyond the traditionally rationalist and positivist approaches towards Hellenistic antiquity, into a new area of humanistic scholarship, by considering the dynastic bloodlines as well as the affective relations. The volume offers a discussion of the intra and extra familial network ruling the Mediterranean world at the time of Philip and Alexander. Building on present scholarship on relations and values in Hellenistic Monarchies, the book contributes to a deeper historical understanding of the mutual dialogue between the socio-cultural and political approaches to Hellenistic history.

**Neurogenesis and Neural Plasticity** Catherine Belzung 2014-07-08 This volume brings together authors working on a wide range of topics to provide an up to date account of the underlying mechanisms and functions of neurogenesis and synaptogenesis in the adult brain. With an increasing understanding of the role of neurogenesis and synaptogenesis it is possible to envisage improvements or novel treatments for a number of diseases and the possibility of harnessing these phenomena to reduce the impact of ageing and to provide mechanisms to repair the

brain.

*Data Analysis and Applications 1* Christos H. Skiadas 2019-04-02 This series of books collects a diverse array of work that provides the reader with theoretical and applied information on data analysis methods, models, and techniques, along with appropriate applications. Volume 1 begins with an introductory chapter by Gilbert Saporta, a leading expert in the field, who summarizes the developments in data analysis over the last 50 years. The book is then divided into three parts: Part 1 presents clustering and regression cases; Part 2 examines grouping and decomposition, GARCH and threshold models, structural equations, and SME modeling; and Part 3 presents symbolic data analysis, time series and multiple choice models, modeling in demography, and data mining.

**The Perfect Slime** Hans-Curt Flemming 2016-09-15 The Perfect Slime presents the latest state of knowledge and all aspects of the Extracellular Polymeric Substances, (EPS) matrix – from the ecological and health to the antifouling perspectives. The book brings together all the current material in order to expand our understanding of the functions, properties and characteristics of the matrix as well as the possibilities to strengthen or weaken it. The EPS matrix represents the immediate environment in which biofilm organisms live. From their point of view, this matrix has paramount advantages. It allows them to stay together for extended periods and form synergistic microconsortia, it retains extracellular enzymes and turns the matrix into an external digestion system and it is a universal recycling yard, it protects them against desiccation, it allows for intense communication and represents a huge genetic archive. They can remodel their matrix, break free and eventually, they can use it as a nutrient source. The EPS matrix can be considered as one of the emergent properties of biofilms and are a major reason for the success of this form of life. Nevertheless, they have been termed the “black matter of biofilms” for good reasons. First of all: the isolation methods define the results. In most cases, only water soluble EPS components are investigated; insoluble ones such as cellulose or amyloids are much less included. In particular in environmental biofilms with many species, it is difficult to impossible isolate, separate the various EPS molecules they are encased in and to define which species produced which EPS. The regulation and the factors which trigger or inhibit EPS production are still very poorly understood. Furthermore: bacteria are not the only microorganisms to produce EPS. Archaea, Fungi and algae can also form EPS. This book investigates the questions, What is their composition, function, dynamics and regulation? What do they all have in common?

**The Brain and Behavior** David L. Clark 2005-09-08 New edition building on the success of previous one. Retains core aim of providing an accessible introduction to behavioral neuroanatomy.

*Flavours and Fragrances* Ralf Günter Berger 2010-10-14 This book is an introduction to the world of aroma chemicals, essential oils, fragrances and flavour compositions for the food, cosmetics and pharmaceutical industry. Present technology, the future use of resources and biotechnological approaches for the production of the respective chemical compounds are described. The book has an integrated and interdisciplinary approach on future industrial production and the issues related to this topic.

**Advances in Hydroinformatics** Philippe Gourbesville 2013-11-12 The book is a collection of extended papers which have been selected for presentation during the SIMHYDRO 2012 conference held in Sophia Antipolis in September 2012. The papers present the state of the art numerical simulation in domains such as (1) New

trends in modelling for marine, river & urban hydraulics; (2) Stakeholders & practitioners of simulation; (3) 3D CFD & applications. All papers have been peer reviewed and by scientific committee members with report about quality, content and originality. The target audience for this book includes scientists, engineers and practitioners involved in the field of numerical modelling in the water sector: flood management, natural resources preservation, hydraulic machineries, and innovation in numerical methods, 3D developments and applications.

*Plato's >Theaetetus< Revisited* Beatriz Bossi 2020-10-12 This book meets the need to revise the standard interpretations of an apparently aporetic dialogue, full of eloquent silences and tricky suggestions, as it explores, among many other topics, the dramatis personae, including Plato's self-references behind the scene and the role of Socrates on stage, the question of method and refutation and the way dialectics plays a part in the dialogue. More specifically, it contains a set of papers devoted to perception and Plato's criticism of Heraclitus and Protagoras. A section deals with the problem of the relation between knowledge and thinking, including the aviary model and the possibility of error. It also emphasizes some positive contributions to the classical Platonic doctrines and his philosophy of education. The reception of the dialogue in antiquity and the medieval age closes the analysis. Representing different hermeneutical traditions, prestigious scholars engage with these issues in divergent ways, as they shed new light on a complex controversial work.

*Lean Thinking for Healthcare* Nilmini Wickramasinghe 2013-10-04 A growing, aging population; the rise to epidemic proportions of various chronic diseases; competing, often overlapping medical technologies; and of course, skyrocketing costs compounded by waste and inefficiency - these are just a few of the multifarious challenges currently facing healthcare delivery. An unexpected source of solutions is being imported from the manufacturing sector: lean thinking. *Lean Principles for Healthcare* presents a conceptual framework, management principles, and practical tools for professionals tasked with designing and implementing modern, streamlined healthcare systems or overhauling faulty ones. Focusing on core components such as knowledge management, e-health, patient-centeredness, and collaborative care, chapters illustrate lean concepts in action across specialties (as diverse as nursing, urology, and emergency care) and around the globe. Extended case examples show health systems responding to consumer needs and provider realities with equal efficiency and effectiveness, and improved quality and patient outcomes. Further, contributors tackle the gamut of technological, medical, cultural, and business issues, among them: Initiatives of service-oriented architecture towards performance improvement Adapted lean thinking for emergency departments Lean thinking in dementia care through smart assistive technology Supporting preventive healthcare with persuasive services Value stream mapping for lean healthcare A technology mediated solution to reduce healthcare disparities Geared toward both how lean ideas can be carried out and how they are being used successfully in the real world, *Lean Principles for Healthcare* not only brings expert knowledge to healthcare managers and health services researchers but to all who have an interest in superior healthcare delivery.

**Fermented Meat Products** Nevijo Zdolec 2017-11-22 This book presents recent developments on the health and safety of fermented meat products. It discusses health aspects of select topics in fermented meat microbiology, veterinary public health, chemistry, technology, biotechnology, nutrition, toxicology, and quality assurance, and gives a broad insight into the product's safety and health hazards. The book considers the safety of fermented meat products through a whole food

chain approach. It focuses on requirements for strict hygienic and technological procedures to prevent potential risk during the production of ready-to-eat products. The book does not aim to serve as negative publicity for meat products. Just the opposite - it points out to the complexity of prevention and control of potential hazards/risks in the production which greatly contributes to a higher total value of fermented meat products. This reference book is a result of collaborative efforts of a number of distinguished authors with international reputation from renowned institutions and it is intended to both academic and professional audience.

**Taurine 10** Dong-Hee Lee 2017-08-28 *Taurine 10* contains original articles and critical reviews based on the oral and poster presentations of XX International Taurine Meeting held in Seoul, Korea in May 2016. The purpose of the book is to present current ideas, new avenues and research regarding biological functions and clinical applications of taurine and taurine derivatives. It focuses on all aspects of taurine research including the cardiovascular system, the immune system, diabetes, the central nervous system, endocrine system and the role of taurine supplements in nutrition. It also includes presentations of novel animal experimental models using Cdo1 and CSAD knock-out mice.

*Nutrition, Well-Being and Health* Jaouad Bouayed 2012-02-23 In our modern society, expectations are high, also with respect to our daily diet. In addition to being merely "nutritious", i.e. supplying a variety of essential nutrients, including macro-nutrients such as proteins or micro-nutrients such as minerals and vitamins, it is almost expected that a good diet offers further advantages - especially well-being and health and the prevention of chronic diseases, which are, as we generally tend to grow older and older, becoming a burden to enjoying private life and to the entire society. These additional qualities are often sought in diets rich also in non-nutritive components, such as phytochemicals. In contrast to drugs, which are taken especially to cure or ameliorate diseases, it is expected that a healthy diet acts in particular on the side of prevention, allowing us to become old without feeling old. In the present book, rather than trying to give an exhaustive overview on nutritional aspects and their link to well-being and health, selected topics have been chosen, intended to address presently discussed key issues of nutrition for health, presenting a reasonable selection of the manifold topics around diet, well-being, and health: from the antioxidants polyphenols and carotenoids, aroma-active terpenoids, to calcium for bone health, back to traditional Chinese Medicine.

*Microbiological Safety and Quality Aspects of Fermented Dairy Products* Uelinton Manoel Pinto 2021-09-30

*The Gene Ontology Handbook* Christophe Dessimoz 2020-10-08 This book provides a practical and self-contained overview of the Gene Ontology (GO), the leading project to organize biological knowledge on genes and their products across genomic resources. Written for biologists and bioinformaticians, it covers the state-of-the-art of how GO annotations are made, how they are evaluated, and what sort of analyses can and cannot be done with the GO. In the spirit of the *Methods in Molecular Biology* book series, there is an emphasis throughout the chapters on providing practical guidance and troubleshooting advice. Authoritative and accessible, *The Gene Ontology Handbook* serves non-experts as well as seasoned GO users as a thorough guide to this powerful knowledge system. This work was published by Saint Philip Street Press pursuant to a Creative Commons license permitting commercial use. All rights not granted by the work's license are retained by the author or authors.

**Child and Adolescent Psychology** Stephen Von Tetzchner 2018-10-29 Child and Adolescent Psychology provides an accessible and thorough introduction to human development by integrating insights from typical and atypical development. This integration cements understanding since the same processes are involved. Knowledge about atypical development informs the understanding of typical development, and knowledge about typical development is a necessary basis for understanding atypical development and working with children with disorders. Based on international research, and informed by biological, social and cultural perspectives, the book provides explanations of developmental phenomena, with a focus on how children and adolescents at different age levels actually think, feel and act. Following a structure by topic, with chronological developments within each chapter, von Tetzchner presents and contrasts the major theoretical ideas in developmental psychology and discusses their implications for different aspects of development. He also integrates information about sensory, physical and cognitive disabilities and the main emotional and behavioral disorders of childhood and adolescence, and the developmental consequences of these disabilities and disorders. Child and Adolescent Psychology is accompanied by online resources for lecturers and students to enhance the book, including essay questions for each chapter, Powerpoint slides and multiple-choice questions. The book and companion website will prove invaluable to developmental psychology students.

Airplanes / Aviones Xist Publishing 2017-03-28 Discover Series Books for Babies & Toddlers Look up in the sky or down in this book to see amazing photos of airplanes. Young aviators will delight in flipping through each photo with a title beneath it. AIRPLANES is perfect for use in airports and to give kids a little something to look at and read through in waiting rooms, on flights, or when traveling. Descubra libros en serie para bebés y niños pequeños Busque en el cielo o en este libro para ver fotos increíbles de aviones. Los aviadores jóvenes se deleitarán en voltear a través de cada foto con un título debajo de ella. Los AEROPUERTOS son perfectos para el uso en aeropuertos y para dar a niños un poco algo mirar y leer a través en salas de espera, en vuelos, o al viajar. Discover series bilingual titles feature word picture association in both English and Spanish.

**Statistical Models for Data Analysis** Paolo Giudici 2013-07-01 The papers in this book cover issues related to the development of novel statistical models for the analysis of data. They offer solutions for relevant problems in statistical data analysis and contain the explicit derivation of the proposed models as well as their implementation. The book assembles the selected and refereed proceedings of the biannual conference of the Italian Classification and Data Analysis Group (CLADAG), a section of the Italian Statistical Society. □

**On Being Moved** Stein Bråten 2007-01-01 In this collective volume the origins, neurosocial support, and therapeutic implications of (pre)verbal intersubjectivity are examined with a focus on implications of the discovery of mirror neurons. Entailing a paradigmatic revolution in the intersection of developmental, social and neural sciences, two radical turnabouts are entailed. First, no longer can be upheld as valid Cartesian and Leibnizian assumptions about monadic subjects with disembodied minds without windows to each other except as mediated by culture. Supported by a mirror system, specified in this volume by some of the discoverers, modes of participant perception have now been identified which entail embodied simulation and co-movements with others in felt immediacy. Second, no longer can be retained the Piagetian attribution of infant egocentricity. Pioneers who have broken new research grounds in the study of newborns, protoconversation, and early

speech perception document in the present volume infant capacity for interpersonal communion, empathic identification, and learning by altercentric participation. Pertinent new findings and results are presented on these topics: (i) Origins and multiple layers of intersubjectivity and empathy (ii) Neurosocial support of (pre)verbal intersubjectivity, participant perception, and simulation of mind (iii) From preverbal sharing and early speech perception to meaning acquisition and verbal intersubjectivity (iv) New windows on other-centred movements and moments of meeting in therapy and intervention. (Series B)

Neuropsychiatric Disorders Manfred Gerlach 2007-12-28 This multidisciplinary book includes current research papers and reviews in the areas of basic neuroscience, neural mechanisms underlying neurodegenerative disorders. It further includes new approaches for neuroprotective treatments, clinical, neurobiological and treatment aspects of psychiatric disorders. The book was conceived as a celebration of the professional life and work of Peter Riederer to mark the occasion of his retirement.

**Bone Morphogenetic Proteins: Systems Biology Regulators** Slobodan Vukicevic 2017-03-14 This book focuses on the salient features of the biology of Bone Morphogenetic Proteins and the advances in our understanding of their structure and function and of downstream signaling, as well as their governance in systems biology from bone and dentin to kidney, cancer, diabetes, iron homeostasis and angiogenesis, including rare musculoskeletal disorders. BMPs, also referred to as growth and differentiation factors, are members of the TGF-beta superfamily and are highly conserved from fruit flies to mammals and are responsible for the formation of practically every organ during embryo development and involved in adult tissue injury and repair. BMPs establish their extracellular gradient by interacting with their respective antagonists and regulate their function through SMAD-dependent down-stream signaling effector genes. This volume is aimed at scientists and professionals dealing with metabolic disorders, nutrition, systems biology diseases, rare musculoskeletal conditions, and disorders related to iron metabolism, including anemia of chronic disease, hereditary hemochromatosis and beta thalassemia.

**To Hell and Back** Niki Lauda 2020-02-27 Niki Lauda drove a car for sport, but crossed the line between life and death and fought back to even greater glory. Even people who know nothing of Formula One have heard of his crash at Nurburgring in 1976, when he was dragged from the inferno of his Ferrari so badly injured he was given the last rites. Within 33 days, he was racing again at Monza. His wounds bled, he had no eyelids. He was terrified. A year later, he reclaimed his World Championship title. In To Hell and Back he reveals how he battled fear to stage a comeback that seemed beyond human endurance. Then it's Lauda vs Hunt, an epic rivalry later dramatized in 2013's Hollywood blockbuster Rush, and he looks back on the strict childhood and parental disapproval that he believes gave him an 'addiction to excellence'. There'll never be another like him.

Automotive Paints and Coatings Hans-Joachim Streitberger 2008-09-08 Now in its second edition and still the only book of its kind, this is an authoritative treatment of all stages of the coating process -- from body materials, paint shop design, and pre-treatment, through primer surfacers and top coats. New topics of interest covered are color control, specification and testing of coatings, as well as quality and supply concepts, while valuable information on capital and legislation aspects is given. Invaluable for engineers in the automotive and paints and coatings industry as well as for students in the field.

*The Future of Humanoid Robots* Riadh Zaier 2012-01-20 This book provides state of

the art scientific and engineering research findings and developments in the field of humanoid robotics and its applications. It is expected that humanoids will change the way we interact with machines, and will have the ability to blend perfectly into an environment already designed for humans. The book contains chapters that aim to discover the future abilities of humanoid robots by presenting a variety of integrated research in various scientific and engineering fields, such as locomotion, perception, adaptive behavior, human-robot interaction, neuroscience and machine learning. The book is designed to be accessible and practical, with an emphasis on useful information to those working in the fields of robotics, cognitive science, artificial intelligence, computational methods and other fields of science directly or indirectly related to the development and usage of future humanoid robots. The editor of the book has extensive R

Innovative Pest Management Approaches for the 21st Century Akshay Kumar Chakravarthy 2020-03-20 Several Integrated Pest Management (IPM) approaches are available for managing pests of varied kinds, including individual and integrated methods for pest suppression. Recently the focus has shifted to pest management tools that act on insect systems selectively, are compatible with the environment, and are not harmful for ecosystems. Other approaches target specific biochemical and physiological aspects of insect metabolism, and involve biotechnological and genetic manipulation. Still other approaches include the use of nanotechnology, endophytes, optical and sonic manipulation to detect and control pest insects. Unfortunately, conventional forms of pest management do not focus on technology transfer to the ground level workers and farmers. As a result, farmers are incurring huge losses of crops and revenues. This book highlights the importance of using communication tools in pest management and demonstrates some success stories of utilizing automated unmanned technologies in this context. The content is divided into three sections, the first of which, "Pest Population Monitoring: Modern Tools," covers long and short-range pest population monitoring techniques and tools such as satellites, unmanned aerial vehicles/drones, remote sensing, digital tools like GIS, GPS for mapping, lidar, mobile apps, software systems, artificial diet designs and functional diversity of info-chemicals. The second section of the book is devoted to "Emerging Areas in Pest Management" and offers a glimpse of diversified tactics that have been developed to contain and suppress pest populations such as endophytes, insect vectors of phytoplasma, Hymenoptera parasitoids, mass production and utilization of NPV etc. In turn, the third section focuses on "Integrated Pest Management" and presents farming situations that illustrate how research in diversified aspects has helped to find solutions to specific pest problems, and how some new and evolving tactics can be practically implemented. Given its scope, the book offers a valuable asset for entomology and plant pathology researchers, students of zoology and plant protection, and readers whose work involves agriculture, horticulture, forestry and other ecosystems.

*Fuels and Fuel-Additives* S. P. Srivastava 2014-01-16 Examines all stages of fuel production, from feedstocks to finished products Exploring chemical structures and properties, this book sheds new light on the current science and technology of producing energy efficient and environmentally friendly fuels. Moreover, it explains the role of fuel-additives in the production cycle. This expertly written and organized guide to fuels and fuel-additives also presents requirements, rules and regulations, including US and EU standards governing automotive emissions, fuel quality and specifications, alternate fuels, biofuels, antioxidants, deposit control

detergents/dispersants, stabilizers, corrosion inhibitors, and polymeric fuel-additives. Fuels and Fuel-Additives covers all stages and facets of the production of engine fuels as well as heating and fuel oils. The book begins with a quick portrait of the future of fuels and fuel production. Then, it sets forth the regulations controlling exhaust gas emissions and fuel quality from around the world. Next, the book covers: Processing of engine fuels derived from crude oil, including the production of blending components Production of alternative fuels Fuel-additives for automotive engines Blending of fuels Key properties of motor fuels and their effects on engines and the environment Aviation fuels The final chapter of the book deals with fuel oils and marine fuels. Each chapter is extensively referenced, providing a gateway to the primary and secondary literature in the field. At the end of the book, a convenient glossary defines all the key terms used in the book. Examining the full production cycle from feedstocks to final products, Fuels and Fuel-Additives is recommended for students, engineers, and scientists working in fuels and energy production.

**Small-scale Freshwater Toxicity Investigations** Christian Blaise 2006-01-16 This broad review is the first to gather comprehensive information on the complete contemporary range of toxicity testing procedures and hazard assessment procedures, which is normally scattered and difficult to find. The two-volume set provides a consistent, template-based approach, linking relevant information on background, theory and practice to each bioassay. Volume 2 examines hazard assessment schemes. Includes extensive glossary.

**Anxiety and Anxiolytic Drugs** Florian Holsboer 2006-03-30 The present volume gives a comprehensive overview on the current state of basic and clinical research on Anxiety and Anxiolytic Drugs. Using newly developed methods and techniques researchers are now beginning to understand the molecular mechanisms of anxiety, anxiety disorders and their treatment. In parallel, new drug targets have been generated and the first clinical studies with new compounds have been started. In 20 chapters written by numerous experts in the field comprehensive information on all relevant topics is provided.

*The Physics of Cancer* Caterina A. M. La Porta 2017-04-20 Recent years have witnessed an increasing number of theoretical and experimental contributions to cancer research from different fields of physics, from biomechanics and soft-condensed matter physics to the statistical mechanics of complex systems. Reviewing these contributions and providing a sophisticated overview of the topic, this is the first book devoted to the emerging interdisciplinary field of cancer physics. Systematically integrating approaches from physics and biology, it includes topics such as cancer initiation and progression, metastasis, angiogenesis, cancer stem cells, tumor immunology, cancer cell mechanics and migration. Biological hallmarks of cancer are presented in an intuitive yet comprehensive way, providing graduate-level students and researchers in physics with a thorough introduction to this important subject. The impact of the physical mechanisms of cancer are explained through analytical and computational models, making this an essential reference for cancer biologists interested in cutting-edge quantitative tools and approaches coming from physics.

*Structural Bioinformatics: Applications in Preclinical Drug Discovery Process* C. Gopi Mohan 2019-01-10 This book reviews the advances and challenges of structure-based drug design in the preclinical drug discovery process, addressing various diseases, including malaria, tuberculosis and cancer. Written by internationally recognized researchers, this edited book discusses how the application of the various in-silico techniques, such as molecular docking, virtual screening,

pharmacophore modeling, molecular dynamics simulations, and residue interaction networks offers insights into pharmacologically active novel molecular entities. It presents a clear concept of the molecular mechanism of different drug targets and explores methods to help understand drug resistance. In addition, it includes chapters dedicated to natural-product-derived medicines, combinatorial drug discovery, the CryoEM technique for structure-based drug design and big data in drug discovery. The book offers an invaluable resource for graduate and postgraduate students, as well as for researchers in academic and industrial laboratories working in the areas of chemoinformatics, medicinal and pharmaceutical chemistry and pharmacoinformatics.

*More than Homer Knew – Studies on Homer and His Ancient Commentators* 2020-04-06

This book contains a collection of twenty-one essays in honour of Professor Franco Montanari by eminent specialists on Homer, ancient Homeric scholarship, and the reception of the Homeric Epics in both ancient and modern times. It covers a wide range of important subjects, including neoanalysis and oral poetry, the Doloneia, the Homeric scholia, the theoretical premises of Aristarchean scholarship, and Homer in Sappho, Pindar, Comedy, Plato, and Hellenistic Poetry. As a whole, the contributions demonstrate the vitality of modern scholarship on Homeric poetry.

*Adipose-Derived Stem Cells* Jeffrey M. Gimble 2011-08-24 During the past decade, a wide range of scientific disciplines have adopted the use of adipose-derived stem/stromal cells (ASCs) as an important tool for research and discovery. In *Adipose-Derived Stem Cells: Methods and Protocols*, experts from the field, including members of the esteemed International Federation of Adipose Therapeutics and Science (IFATS), provide defined and established protocols in order to further codify the utilization of these powerful and accessible cells. With chapters organized around approaches spanning the discovery, pre-clinical, and clinical processes, much of the emphasis is placed on human ASC, while additional techniques involving small and large animal species are included. As a volume in the highly successful *Methods in Molecular Biology*™ series, the detailed contributions include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and notes on troubleshooting and avoiding known pitfalls. Comprehensive and cutting-edge, *Adipose-Derived Stem Cells: Methods and Protocols* serves as a vital reference text for experienced researchers as well as new students on the path to further exploring the incredible potential of ASCs.

**The Empathic Brain** 2011