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Polymer Nanoparticles for Nanomedicines -  
Christine Vauthier 2017-01-07

This volume serves as a valuable handbook for the development of nanomedicines made of polymer nanoparticles because it provides researchers, students, and entrepreneurs with all the material necessary to begin their own projects in this field. Readers will find protocols to

prepare polymer nanoparticles using different methods, since these are based on the variety of experiences that experts encounter in the field. In addition, complex topics such as, the optimal characterization of polymer nanoparticles is discussed, as well as practical guidelines on how to formulate polymer nanoparticles into nanomedicines, and how to modify the properties

of nanoparticles to give them the different functionalities required to become an efficient nanomedicine for different clinical applications. The book also discusses the translation of technology from research to practice, considering aspects related to industrialization of preparation and aspects of regulatory and clinical development.

**Secure Data Management** - Willem Jonker

2011-08-19

This book constitutes the refereed proceedings of the 8th VLDB Workshop on Secure Data Management held in Seattle, WA, USA in September 2, 2011 as a satellite workshop of the VLDB 2011 Conference . The 10 revised full papers presented were carefully reviewed and selected from 19 submissions. The papers are organized in topical sections on privacy protection and quantification, security in cloud and sensor networks and secure data management technologies.

*Functional Proteomics* - Julie D. Thompson

2008-08-12

As the emerging field of proteomics continues to expand at an extremely rapid rate, the relative quantification of proteins, targeted by their function, becomes its greatest challenge.

Complex analytical strategies have been designed that allow comparative analysis of large proteomes, as well as in depth detection of the core proteome or the interaction network of a given protein of interest. In *Functional Proteomics: Methods and Protocols*, expert researchers describe the latest protocols being developed to address the problems encountered in high-throughput proteomics projects, with emphasis on the factors governing the technical choices for given applications. The case studies within the volume focus on the following three crucial aspects of the experimental design: 1) the strategy used for the selection, purification and preparation of the sample to be analyzed by mass spectrometry, 2) the type of mass spectrometer used and the type of data to be

obtained from it, and 3) the method used for the interpretation of the mass spectrometry data and the search engine used for the identification of the proteins in the different types of sequence data banks available. As a part of the highly successful *Methods in Molecular Biology*<sup>TM</sup> series, the chapters compile step-by-step, readily reproducible laboratory protocols, lists of the necessary materials and reagents, and tips on troubleshooting and avoiding known pitfalls. Comprehensive and cutting-edge, *Functional Proteomics: Methods and Protocols* is an ideal resource for all scientists pursuing this developing field and its multitudinous data.

*Nanotechnology: Science and Computation* - Junghuei Chen 2006-06-29

Nanoscale science and computing is becoming a major research area as today's scientists try to understand the processes of natural and biomolecular computing. The field is concerned with the architectures and design of molecular self-assembly, nanostructures and molecular

devices, and with understanding and exploiting the computational processes of biomolecules in nature. This book offers a unique and authoritative perspective on current research in nanoscale science, engineering and computing. Leading researchers cover the topics of DNA self-assembly in two-dimensional arrays and three-dimensional structures, molecular motors, DNA word design, molecular electronics, gene assembly, surface layer protein assembly, and membrane computing. The book is suitable for academic and industrial scientists and engineers working in nanoscale science, in particular researchers engaged with the idea of computing at a molecular level.

**History of the Cherokee Indians and Their Legends and Folk Lore** - Emmet Starr 1922

**Fish Processing** - George M. Hall 2011-06-13  
This book seeks to address the challenges facing the international seafood industry via a two pronged approach: by offering the latest

information on established technologies and introducing new ideas and technologies. An introductory chapter sets the tone for the book by presenting the background against which fish processing will exist in the near future. Chapter two looks at the environmental and sustainability issues relating to conventional fish processing, including processing efficiency and better use of the outputs currently considered wastes. The impact of mechanisation and computerisation on environmental sustainability is also addressed. Subsequent chapters examine the latest developments in established fish processing technologies such as canning, curing, freezing and chilling, with an emphasis on the environmental aspects of packaging and the process itself. In addition, quality and processing parameters for specific species, including new species, are described. The second part of the book gives authors the opportunity to introduce the potential technologies and applications of the future to a wider audience. These include

fermented products and their acceptance by a wider audience; the utilisation of fish processing by-products as aquaculture feeds; and the use of by-products for bioactive compounds in biomedical, nutraceutical, cosmetic and other applications.

*Multi-Image Analysis* - Reinhard Klette  
2001-05-02

This book constitutes the thoroughly refereed post-proceedings of the 10th International Workshop on Theoretical Foundations of Computer Vision, held at Dagstuhl Castle, Germany, in March 2000. The 20 revised full papers presented have been through two rounds of reviewing, selection, and revision and give a representative assessment of the foundational issues in multiple-image processing. The papers are organized in topical sections on 3D data acquisition and sensor design, multi-image analysis, data fusion in 3D scene description, and applied 3D vision and virtual reality.

**Regna and Gentes** - Hans-Werner Goetz 2003

This book is the first comprehensive and comparative study of the difficult relationship between ethnic identities and political organisation in the post-Roman and early medieval kingdoms. 16 authors (historians, archaeologists and linguists) deal with ten important kingdoms of this period and with its political and legal context.

**Generative Programming and Component Engineering** - Frank Pfenning 2003-09-12

This book constitutes the refereed proceedings of the Second International Conference on Generic Programming and Component Engineering, GPCE 2003, held in Erfurt, Germany in September 2003. The 21 revised full papers presented were carefully reviewed and selected from 62 submissions. The papers are organized in topical sections on domain-specific languages, staged programming, modeling to code, aspect-orientation, meta-programming and language extension, automating design-to-code transitions, principled domain-specific approaches, and

generation and translation.

**Nanostructured Materials** - C. Koch 2002-03

This book narrows the field into the study of synthesis, characterization, and properties relevant to applications that require bulk, and mainly inorganic materials.

**Neuroimaging of Consciousness** - Andrea Eugenio Cavanna 2013-07-20

Within the field of neuroscience, the past few decades have witnessed an exponential growth of research into the brain mechanisms underlying both normal and pathological states of consciousness in humans. The development of sophisticated imaging techniques to visualize and map brain activity in vivo has opened new avenues in our understanding of the pathological processes involved in common neuropsychiatric disorders affecting consciousness, such as epilepsy, coma, vegetative states, dissociative disorders, and dementia. This book presents the state of the art in neuroimaging exploration of the brain correlates of the alterations in

consciousness across these conditions, with a particular focus on the potential applications for diagnosis and management. Although the book has a practical approach and is primarily targeted at neurologists, neuroradiologists, and psychiatrists, it will also serve as an essential reference for a wide range of researchers and health care professionals.

**Biomedical Natural Language Processing** -

Kevin Bretonnel Cohen 2014-02-15

Biomedical Natural Language Processing is a comprehensive tour through the classic and current work in the field. It discusses all subjects from both a rule-based and a machine learning approach, and also describes each subject from the perspective of both biological science and clinical medicine. The intended audience is readers who already have a background in natural language processing, but a clear introduction makes it accessible to readers from the fields of bioinformatics and computational biology, as well. The book is suitable as a

reference, as well as a text for advanced courses in biomedical natural language processing and text mining.

**Perinatal Psychopharmacology** - Faruk Uguz  
2019-01-24

This book focuses on recent advances in research and practical recommendations regarding the use of psychotropic drugs during pregnancy and lactation, two important social and psychological life events for women. In addition to the social context, including the addition of a new family member, many women experience the occurrence or recurrence of psychiatric disorders during the perinatal period. Psychiatric disorders during this period can have negative effects on the fetus, infant and other children in the family, and can result in functional impairment among mothers. The book offers a comprehensive overview of psychopharmacological treatments for nearly all specific psychiatric conditions (e.g. bipolar disorder, panic disorder, obsessive-compulsive disorder) and includes chapters on

clinical approaches to treating these disorders. As such, it will appeal to a wide readership, including psychiatrists, obstetricians, gynecologists and pediatricians.

**Clinical PET and PET/CT** - H. Jadvar 2006-01-20

A practical manual covering the full spectrum of PET and PET/CT imaging, now in common clinical practice, this book includes images of normal variants, artifacts, and pathologic conditions. Indications for and the relative clinical value of PET in the armamentarium of diagnostic medical imaging are reviewed. The information in the book is organized to be brief, concise, easy-to-understand and readily accessed. This book is intended for all health practitioners who need a concise reference and review of PET imaging indications, protocols and clinical applications. It will be useful to radiologists, nuclear medicine physicians, and clinicians who refer their patients to PET Centers for diagnostic imaging, including neurologists, neurosurgeons, psychiatrists, cardiologists, internists, and oncologists.

Radiologic and nuclear medicine technologists, and physicians in training will also benefit from this work.

**Gold Nanoparticles in Biomedical Applications** - Lev Dykman 2017-12-12

This book discusses fabrication of functionalized gold nanoparticles (GNPs) and multifunctional nanocomposites, their optical properties, and applications in biological studies. This is the very first book of its kind to comprehensively discuss published data on in vitro and in vivo biodistribution, toxicity, and uptake of GNP by mammalian cells providing a systematization of data over the GNP types and parameters, their surface functionalization, animal and cell models. As distinct from other related books, *Gold Nanoparticles in Biomedical Applications* discusses the immunological properties of GNPs and summarizes their applications as an antigen carrier and adjuvant in immunization for the preparation of antibodies in vivo. Although the potential of GNPs in nanobiotechnology has been

recognized for the past decade, new insights into the unique properties of multifunctional nanostructures have recently emerged. With these developments in mind, this book unites ground breaking experimental data with a discussion of hybrid nanoparticle systems that combine different nanomaterials to create multifunctional structures. These novel hybrids constitute the material basis of theranostics, bringing together the advanced properties of functionalized GNPs and composites into a single multifunctional nanostructure with simultaneous diagnostic and therapeutic functions. Such nanohybrids can be physically and chemically tailored for a particular organ, disease, and patient thus making personalized medicine available.

*Carbyne and Carbynoid Structures* - R.B. Heimann 2012-12-06

This is a book on one of the most fascinating and controversial areas in contemporary science of carbon, chemistry, and materials science. It

concisely summarizes the state of the art in topical and critical reviews written by professionals in this and related fields.

**Agrobacterium Protocols** - Kan Wang  
2008-02-04

*Agrobacterium tumefaciens* is a soil bacterium that for more than a century has been known as a pathogen causing the plant crown gall disease. Unlike many other pathogens, *Agrobacterium* has the ability to deliver DNA to plant cells and permanently alter the plant genome. The discovery of this unique feature 30 years ago has provided plant scientists with a powerful tool to genetically transform plants for both basic research purposes and for agricultural development. Compared to physical transformation methods such as particle bombardment or electroporation, *Agrobacterium*-mediated DNA delivery has a number of advantages. One of the features is its propensity to generate a single or a low copy number of integrated transgenes with defined ends.



Integration of a single transgene copy into the plant genome is less likely to trigger “gene silencing” often associated with multiple gene insertions. When the first edition of *Agrobacterium Protocols* was published in 1995, only a handful of plants could be routinely transformed using *Agrobacterium*.

*Agrobacterium*-mediated transformation is now commonly used to introduce DNA into many plant species, including monocotyledon crop species that were previously considered non-hosts for *Agrobacterium*. Most remarkable are recent developments indicating that *Agrobacterium* can also be used to deliver DNA to non-plant species including bacteria, fungi, and even mammalian cells.

**Phase Diagrams in Metallurgy** - Frederick Nims Rhines 1956

**Protocols in Lichenology** - Ilse Kranner

2012-12-06

As an intricate association between a fungus and

one or more green algae or cyanobacteria, lichens are one of the most successful examples of symbiosis. These fascinating organisms survive extreme desiccation and temperatures. They are adapted to a great variety of habitats, from deserts to intertidal zones, from tropical rain forests to the peaks of the Himalayas and to circumpolar ecosystems. Lichens are extremely efficient accumulators of atmospherically deposited pollutants, and are therefore widely used to monitor environmental pollution. Their wide range of secondary products show pharmaceutically interesting fungicidal, antibacterial and antiviral properties. Lichens are extremely difficult to culture. This manual provides well-tested tissue culture protocols, protocols for studying lichen ultrastructure, (eco)physiology, primary and secondary compounds, and for using lichens as bioindicators.

**Digital Labour and Karl Marx** - Christian Fuchs

2014-01-03

How is labour changing in the age of computers, the Internet, and "social media" such as Facebook, Google, YouTube and Twitter? In *Digital Labour and Karl Marx*, Christian Fuchs attempts to answer that question, crafting a systematic critical theorisation of labour as performed in the capitalist ICT industry. Relying on a range of global case studies--from unpaid social media prosumers or Chinese hardware assemblers at Foxconn to miners in the Democratic Republic of Congo--Fuchs sheds light on the labour costs of digital media, examining the way ICT corporations exploit human labour and the impact of this exploitation on the lives, bodies, and minds of workers.

*Handbook of Schizophrenia Spectrum Disorders, Volume 1* - Michael S Ritsner 2011-04-06

A few disorders have some of the same symptoms as schizophrenia including schizoaffective disorders, schizophreniform disorder, schizotypal and schizoid personality disorders, delusional disorder, and autism

(schizophrenia spectrum disorders). Since the 2000 there has been significant progress in our understanding of the early presentations, assessment, suspected neuropathology, and treatment of these disorders. Recent technological breakthroughs in basic sciences hold promise for advancing our understanding of the pathophysiology of schizophrenia spectrum disorders. This collective monograph reviews recent researches regarding the origins, onset, course, and outcome of schizophrenia spectrum disorders. In particular, this book will be illustrate new developments in terms of conceptual models, and research methodology, genetics and genomics, brain imaging and neurochemical studies, neurophysiology and information processing in schizophrenia spectrum disorders patients. Also will be highlighted new developments in our understanding of the childhood psychosis, prodromal and first-episode states, in treatment and rehabilitation. Thus, the purpose of this book is to provide up-to-date

overview of the rapid advances made in the clinical and basic science studies supporting our understanding of the relationship between cerebral processes and clinical, cognitive and other presentations of the schizophrenia spectrum disorders. In addition, this book aims to monitor important research developments, which may be relevant to treatment, and rehabilitation of patients.

*Excited States and Photochemistry of Organic Molecules* - Martin Klessinger 1995

A significantly updated translation of *Lichtabsorption und Photochemie Organischer Moleküle*, published by VCH in 1989. A graduate textbook that provides a qualitative description of electronic excitation in organic molecules and of the associated spectroscopy, photophysics, and photochemistry. The treatment is non-mathematical and emphasizes the use of simple qualitative models for developing an intuitive feeling for the course of photophysical and photochemical processes in terms of potential

energy hypersurfaces. Special attention is paid to recent developments, particularly to the role of conical intersections. Annotation copyright by Book News, Inc., Portland, OR

**The Peptidergic Neuron** - B. Krisch 2012-12-06

Neuropeptides rank among the phylogenetically oldest interneuronal signal substances. In the concept of neuro-secretion they were identified as neurohormones by which - via the blood - the brain regulates peripheral functions. It is now evident that the neuropeptides act as neurotransmitters/-modulators, as (neuro-)hormones, and paracrine or autocrine signal substances in diverse parts of the body. This book reviews, in several comprehensive articles written by distinguished specialists, the state of the art in the field of neuropeptides and peptidergic neurons. Special topics concern molecular aspects of processing, release and degradation of neuropeptides, receptors and signal transduction, comparative and behavioural aspects, and immunoregulatory effects of

neuropeptides and their involvement on pathology of the central nervous system.

*Queer Masculinities* - John Landreau 2011-09-28

*Queer Masculinities: A Critical Reader in Education* is a substantial addition to the discussion of queer masculinities, of the interplay between queer masculinities and education, and to the political gender discourse as a whole. Enriching the discourse of masculinity politics, the cross-section of scholarly interrogations of the complexities and contradictions of queer masculinities in education demonstrates that any serious study of masculinity—hegemonic or otherwise—must consider the theoretical and political contributions that the concept of queer masculinity makes to a more comprehensive and nuanced understanding of masculinity itself. The essays adopt a range of approaches from empirical studies to reflective theorizing, and address themselves to three separate educational realms: the K-12 level, the collegiate level, and the level in popular culture, which

could be called 'cultural pedagogy'. The wealth of detailed analysis includes, for example, the notion that normative expectations and projections on the part of teachers and administrators unnecessarily reinforce the values and behaviors of heteronormative masculinity, creating an institutionalized loop that disciplines masculinity. At the same time, and for this very reason, schools represent an opportunity to 'provide a setting where a broader menu can be introduced and gender/sexual meanings, expressions, and experiences boys encounter can create new possibilities of what it can mean to be male'. At the collegiate level chapters include analysis of what the authors call 'homosexualization of heterosexual men' on the university dance floor, while the chapters of the third section, on popular culture, include a fascinating analysis of the construction of queer 'counternarratives' that can be constructed watching TV shows of apparently hegemonic bent. In all, this volume's breadth and detail

make it a landmark publication in the study of queer masculinities, and thus in critical masculinity studies as a whole.

**Fundamentals of Hand Therapy** - Cynthia Cooper 2013-11-06

Perfect for hand therapy specialists, hand therapy students, and any other professional who encounters clients with upper extremity issues, *Fundamentals of Hand Therapy, 2nd Edition* contains everything you need to make sound therapy decisions. Coverage includes hand anatomy, the evaluation process, and diagnosis-specific information. Expert tips, treatment guidelines, and case studies round out this comprehensive text designed to help you think critically about each client's individual needs. "Overall, a very clear readable style is adopted throughout, with theory supported by various anecdotal case studies. Excellent use is made of illustrations, and many chapters contain the helpful addition of 'clinical pearls' or 'tips from the field', which are an attempt to make

transparent the links between theory and practice. In conclusion, this is an excellent core text for reference purposes." Reviewed by: British Journal of Occupational Therapy Date: Aug 2014 Clinical Pearls and Precautions highlight relevant information learned by the experienced author and contributors that you can apply to clinical practice. Case examples included in the diagnoses chapters in Part Three demonstrate the use of clinical reasoning and a humanistic approach in treating the client. Diagnosis-specific information in the final section of the book is well-organized to give you quick access to the information you need. Special features sections such as Questions to Discuss with the Physician, What to Say to Clients, Tips from the Field, and more help readers find their own clinical voices. Online sample exercises give you a pool to pull from during professional practice. NEW! Chapters on yoga and pilates provide guidance into new ways to treat upper extremity problems. NEW! Chapter on wound care gives you a thorough

foundation on how wounds impact therapeutic outcomes. NEW! Chapter on orthotics has been added to cover basic splinting patterns. NEW! Online resources help assess your understanding and retention of the material.

**Advanced Functional Porous Materials** - Arya Uthaman 2021-11-13

This book presents synthesis, characterization, and applications of macroporous, mesoporous, nanoporous, hierarchical porous, porous metals, and porous ceramics. Special emphasis is given to the preparation of porous activated carbon materials and porous ionic liquid-derived materials for CO<sub>2</sub> emissions mitigation. Additionally, a chapter includes the physical and mathematical modeling in porous media. Many analytical techniques for characterization are discussed in this book. Also, the biomedical and industrial applications of porous materials in adsorption, catalysis, biosensors, drug delivery, nanotechnology are described. The content helps solving fundamental and applied problems in

porous materials with length scales varying from macro- to nano-level.

Intelligent Algorithms in Ambient and Biomedical Computing - Wim Verhaegh 2006-09-09

This book is the outcome of a series of discussions at the Philips Symposium on Intelligent Algorithms, held in Eindhoven in December 2004. It offers exciting and practical examples of the use of intelligent algorithms in ambient and biomedical computing. It contains topics such as bioscience computing, database design, machine consciousness, scheduling, video summarization, audio classification, semantic reasoning, machine learning, tracking and localization, secure computing, and communication.

**Performance Characterization in Computer Vision** - Reinhard Klette 2013-04-17

This edited volume addresses a subject which has been discussed intensively in the computer vision community for several years. Performance characterization and evaluation of computer

vision algorithms are of key importance, particularly with respect to the configuration of reliable and robust computer vision systems as well as the dissemination of reconfigurable systems in novel application domains. Although a plethora of literature on this subject is available for certain areas of computer vision, the research community still faces a lack of a well-grounded, generally accepted, and eventually standardized methods. The range of fundamental problems encompasses the value of synthetic images in experimental computer vision, the selection of a representative set of real images related to specific domains and tasks, the definition of ground truth given different tasks and applications, the design of experimental test beds, the analysis of algorithms with respect to general characteristics such as complexity, resource consumption, convergence, stability, or range of admissible input data, the definition and analysis of performance measures for classes of algorithms, the role of statistics-based

performance measures, the generation of data sheets with performance measures of algorithms supporting the system engineer in his configuration problem, and the validity of model assumptions for specific applications of computer vision.

Uncovering the North - Valerie Alia 1999

A chronology of developments in communications in Canadian Arctic, sub-Arctic, and circumpolar regions (shown on maps) prefaces a discussion of "Southern exposure" media portrayals of aboriginals. The final chapter looks at future directions challenging the colonial mentality. B & w illustrations include a politically incorrect cartoon, magazine covers, and remote satellite dish installations. Appended materials include a statement of principles from the Native News Network of Canada; and catalogues of northern community media resources, and broadcast sites for Television Northern Canada.

*Project Management* - Harold Kerzner 2013-01-22  
A new edition of the most popular book of project

management case studies, expanded to include more than 100 cases plus a "super case" on the Iridium Project. Case studies are an important part of project management education and training. This Fourth Edition of Harold Kerzner's Project Management Case Studies features a number of new cases covering value measurement in project management. Also included is the well-received "super case," which covers all aspects of project management and may be used as a capstone for a course. This new edition: Contains 100-plus case studies drawn from real companies to illustrate both successful and poor implementation of project management. Represents a wide range of industries, including medical and pharmaceutical, aerospace, manufacturing, automotive, finance and banking, and telecommunications. Covers cutting-edge areas of construction and international project management plus a "super case" on the Iridium Project, covering all aspects of project management. Follows and supports

preparation for the Project Management Professional (PMP®) Certification Exam. Project Management Case Studies, Fourth Edition is a valuable resource for students, as well as practicing engineers and managers, and can be used on its own or with the new Eleventh Edition of Harold Kerzner's landmark reference, Project Management: A Systems Approach to Planning, Scheduling, and Controlling. (PMP and Project Management Professional are registered marks of the Project Management Institute, Inc.)

*The Scientific Study of Mummies* - Arthur C. Aufderheide 2003

Table of contents

**Principles of Polymer Chemistry** - A. Ravve  
2012-05-24

This successful textbook undergoes a change of character in the third edition. Where earlier editions covered organic polymer chemistry, the third edition covers both physical and organic chemistry. Thus kinetics and thermodynamics of polymerization reactions are discussed. This



edition is also distinct from all other polymer textbooks because of its coverage of such currently hot topics as photonic polymers, electricity conducting polymers, polymeric materials for immobilization of reagents and drug release, organic solar cells, organic light emitting diodes. This textbook contains review questions at the end of every chapter, references for further reading, and numerous examples of commercially important processes.

**Microwave Ferrites and Ferrimagnetics** - Benjamin Lax 2012-04-01

**Treatise on Zoology - Anatomy, Taxonomy, Biology. The Gregarines (2 vols)** - Isabelle Desportes 2013-05-23

Gregarines are apicomplexans and exclusively parasites of invertebrates. After the basic publication in the *Traité de Zoologie* by Grassé in 1953, this second edition is proposed to update the knowledge with information provided by new technologies such as electron microscopy,

biochemistry and molecular biology and to enlighten their high diversity of adaptation to invertebrate hosts living in a diversity of biotopes. Morphological features, life cycles, host-parasite interactions and taxonomical data are most informative for the understanding of the evolution of the phylum Apicomplexa.

**Diffusion in Materials** - A.L. Laskar 2012-12-06

This volume is the proceedings of the NATO Advanced Study Institute, "Diffusion in Materials", held at "Centre Paul Langevin", Aussois, during March 12-25, 1989. There were 105 participants of whom 24 were lecturers and members of the international advisory committee. In addition to the participants from NATO countries, a small number of participants came from Australia, Hungary, Poland and Tunisia. The principal aim of the organizing committee was to bring together scientists of wide interest and expertise in the field of diffusion and to familiarize the young workers in material science with the wide range of theoretical models and methods and of

experimental techniques . The Institute was concerned with the study of diffusion and related phenomena in solids which are at the cutting edge of novel technologies. The discussion of basic theories of defects in solids and their transport, with their applications in the understanding of diffusion processes in "simple solids" was followed by the wide range of current theoretical models and methods, experimental techniques and their potential. The lectures on the diffusion in specific materials included : metals, dilute and concentrated alloys, simple and compound semiconductors, stoichiometric and non-stoichiometric oxides, high-Tc compounds, carbides, nitrides, silicates, conducting polymers and thin films, ionic, superionic, amorphous and irradiated materials.

*Introducing Neuropsychology* - John Stirling  
2010-10-18

Introducing Neuropsychology, Second Edition investigates the functions of the brain and explores the relationships between brain systems

and human behaviour. The material is presented in a jargon-free, easy to understand manner and aims to guide students new to the field through current areas of research. Following a brief history of the discipline and a description of methods in neuropsychology, the remaining chapters review traditional and recent research findings. Both cognitive and clinical aspects of neuropsychology are addressed to illustrate the advances scientists are making (on many fronts) in their quest to understand brain - behaviour relationships in both normal and disturbed functioning. The rapid developments in neuropsychology and cognitive neuroscience resulting from traditional research methods as well as new brain-imaging techniques are presented in a clear and straightforward way. Each chapter has been fully revised and updated and new brain-imaging data are incorporated throughout, especially in the later chapters on Emotion and Motivation, and Executive Functions. As in the first edition, key topics are

dealt with in separate focus boxes, and “interim comment” sections allow the reader a chance to “take stock” at regular intervals. The book assumes no particular expertise on the reader’s part in either psychology or brain physiology. Thus, it will be of great interest not only to those studying neuropsychology and cognitive neuroscience, but also to medical and nursing students, and indeed anyone who is interested in learning about recent progress in understanding brain-behaviour relationships.

*100 Years of Radar* - Gaspare Galati 2015-09-15  
This book offers fascinating insights into the key technical and scientific developments in the history of radar, from the first patent, taken out by Hülsmeyer in 1904, through to the present day. Landmark events are highlighted and fascinating insights provided into the exceptional people who made possible the progress in the field, including the scientists and technologists who worked independently and under strict secrecy in various countries across the world in

the 1930s and the big businessmen who played an important role after World War II. The book encourages multiple levels of reading. The author is a leading radar researcher who is ideally placed to offer a technical/scientific perspective as well as a historical one. He has taken care to structure and write the book in such a way as to appeal to both non-specialists and experts. The book is not sponsored by any company or body, either formally or informally, and is therefore entirely unbiased. The text is enriched by approximately three hundred images, most of which are original and have been accessed by detailed searches in the archives.

*Light Driven Micromachines* - George K. Knopf 2018-03-29

In *Light Driven Micromachines*, the fundamental principles and unique characteristics of light driven material structures, simple mechanisms and integrated machines are explored. Very small light driven systems provide a number of interesting features and unique design

opportunities because streams of photons deliver energy into the system and provide the control signal used to regulate the response of the micron sized device. Through innovative material design and clever component fabrication, these optically powered tiny machines can be created to perform mechanical work when exposed to varying light intensity, wavelength, phase, and/or polarization. The book begins with the scientific background necessary to understand the nature of light and how light can initiate physical movement by inducing material deformation or altering the surrounding environment to impose micro-forces on the actuating mechanisms. The impact of physical size on the performance of light driven mechanisms and machines is discussed, and the nature of light-material interactions is reviewed. These interactions enable very small objects and mechanical components to be trapped and manipulated by a focused light beam, or produce local temperature gradients that force certain materials to undergo

shape transformation. Advanced phase transition gels, polymers, carbon-based films and piezoelectric ceramics that exhibit direct light-to-mechanical energy conversion are examined from the perspective of designing optically driven actuators and mechanical systems. The ability of light to create photothermal effects that drive microfluidic processes and initiate the phase transformation of temperature sensitive shape memory materials are also explored in the book. This compendium seeks to inspire the next generation of scientists and engineers by presenting the fundamental principles of this emerging interdisciplinary technology and exploring how the properties of light can be exploited for microfluidic, microrobotic, biomedical and space applications.

Bioactive Polysaccharides - Shaoping Nie  
2017-10-27

Bioactive Polysaccharides offers a comprehensive review of the structures and bioactivities of bioactive polysaccharides isolated from

traditional herbs, fungi, and seaweeds. It describes and discusses specific topics based on the authors' rich experience, including extraction technologies, practical techniques required for purification and fractionation, strategies and skills for elucidating the fine structures, in-vitro and in-vivo protocols, and methodologies for evaluating the specific bioactivities, including immune-modulating activities, anti-cancer activities, anti-oxidant activities, and others. This unique book also discusses partial structure-functionality (bioactivities) relationships based on conformational studies. This comprehensive work can be used as a handbook to explore potential applications in foods, pharmaceuticals, and nutraceutical areas for commercial interests. Serves as a comprehensive review on extraction technologies, and as a practical guide for the purification and fractionation of bioactive polysaccharides Brings step-by-step strategies for elucidating the fine structures and molecular

characterizations of bioactive polysaccharides Includes detailed experimental design and methodologies for investigation bioactivities using both in-vitro and in-vivo protocols Clarifies how to extract, purify, and fractionate bioactive polysaccharides, also exploring health benefits Useful as a guide to explore the commercial potentials of bioactive polysaccharides as pharmaceuticals, medicine, and functional foods Security, Privacy, and Trust in Modern Data Management - Milan Petkovic 2007-06-12 The vision of ubiquitous computing and ambient intelligence describes a world of technology which is present anywhere, anytime in the form of smart, sensible devices that communicate with each other and provide personalized services. However, open interconnected systems are much more vulnerable to attacks and unauthorized data access. In the context of this threat, this book provides a comprehensive guide to security and privacy and trust in data management.