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Graphene Oxide Springer

photoacoustic and Photothermal Phenomena contains reviews and a large number of selected contributed papers reporting progress in the application of new photoacoustic and photo-thermal techniques in physics, chemistry, biology, medicine and materials science. Theoretical and experimental work is presented on spectroscopy, kinetics and relaxation, trace analysis, mass and heat transport, surfaces and thin films, nondestructive evaluation, ultrasonics and semiconductors.

Atomic Spectra and Atomic Structure Springer Science & Business Media

The aim of this book is to provide the reader with a coherent and updated comprehensive treatise that covers the central subjects of the field. The style and content is suitable both for students and researchers. Highlights of the book include (among many others) the Ion-Sphere model, statistical models, Average-Atom model, emission spectrum, unresolved transition arrays, supertransition arrays, radiation transport, escape factors and x-ray lasers.

Computational Epidemiology Springer

This volume covers the major threads in the molecular genetics of aging, including genes that regulate aging, causes of aging, evolutionary theories of aging, and the relationship between diet and aging. Among specific topics covered are calorie restriction, mitochondria, sirtuins, telomeres, stem cells, and cancer.

Development of the Cardiac Conduction System eBookIt.com

Vascular dementia is one of the most common forms of mental deterioration for the elderly, second only to Alzheimer's disease. It should not be defined as a single disease, but rather as a group of syndromes that relate to different vascular mechanisms. This is one of the first books to be solely dedicated to the specific class of vascular dementia known as subcortical vascular dementia. The strict focus of the chapters give an depth review that will clarify many different aspects and give an

unprecedented amount of detail about this clinical problem. Considering that vascular dementia can be prevented with early diagnosis, the research presented in this book will be important for both students and specialists of this important field.

The Solar Transition Region Springer

An introduction to the physics of highly excited, easily perturbed or interacting atoms. Covers Rydberg states, quantum defect theory, atomic f-values, centrifugal barrier effects, autoionisation, inner shell and double excitation spectra, K-matrix theory, atoms in high laser fields, statistical methods, quantum chaos, and atomic effects in solids.

Theory of the Inhomogeneous Electron Gas Springer Science & Business Media

This book provides an overview of the basic concepts and new methods in the emerging scientific area known as quantum plasmas. In the near future, quantum effects in plasmas will be unavoidable, particularly in high density scenarios such as those in the next-generation intense laser-solid density plasma experiment or in compact astrophysics objects. Currently, plasmas are in the forefront of many intriguing questions around the transition from microscopic to macroscopic modeling of charged particle systems. Quantum Plasmas: an Hydrodynamic Approach is devoted to the quantum hydrodynamic model paradigm, which, unlike straight quantum kinetic theory, is much more amenable to investigate the nonlinear realm of quantum plasmas. The reader will have a step-by-step construction of the quantum hydrodynamic method applied to plasmas. The book is intended for specialists in classical plasma physics interested in methods of quantum plasma theory, as well as scientists interested in common aspects of two major areas of knowledge: plasma and quantum theory. In these chapters, the quantum hydrodynamic model for plasmas, which has continuously evolved over the past decade, will be summarized to include both the development and applications of the method.

Histone Deacetylases: the Biology and Clinical Implication Birkh ä user

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New Metropolitan Perspectives Academic Press

Proceedings of the American Academy of Anti-Aging Medicine's (A4M) Seventeenth World Congress on Anti-Aging Medicine & Regenerative Biomedical Technologies, Spring, Summer and Winter Sessions (2009 conference year). Also includes Anti-Aging Clinical Protocols, 2010-2011.

Molecular Biology of Aging Cambridge University Press

This monograph presents a general mathematical theory for biological growth. It provides both a conceptual and a technical foundation for the understanding and analysis of problems arising in biology and physiology. The theory and methods are illustrated on a wide range of examples and applications. A process of extreme complexity, growth plays a fundamental role in many biological processes and is considered to be the hallmark of life itself. Its description has been one of the fundamental problems of life sciences, but until recently, it has not attracted much attention from mathematicians, physicists, and engineers. The author herein presents the first major technical monograph on the problem of growth since D'Arcy Wentworth Thompson's 1917 book *On Growth and Form*. The emphasis of the book is on the proper mathematical formulation of growth kinematics and mechanics. Accordingly, the discussion proceeds in order of complexity and the book is divided into five parts. First, a general introduction on the problem of growth from a historical perspective is given. Then, basic concepts are introduced within the context of growth in filamentary structures. These ideas are then generalized to surfaces and membranes and eventually to the general case of volumetric growth. The book concludes with a discussion of open problems and outstanding challenges. Thoughtfully written and richly illustrated to be accessible to readers of varying interests and background, the text will appeal to life scientists, biophysicists, biomedical engineers, and applied mathematicians alike.

Corneal Regeneration Halsted Press

To a certain extent the dementias have been forgotten diseases until just recently when they were brought to the attention of the general public and health authorities as a result of the increasing number of cases in the aging population, especially among famous people, and because of the efforts of private foundations. The goals of the present volume are to present the dementias to health practitioners, to provide some basic information on their epidemiology and biological basis and to discuss the diagnostic and clinical problems that physicians and institutions face when caring for demented patients. This book explores the various types of dementias and is not limited to Alzheimer's disease although, as expected, more information is available and presented on this pathology. On the other hand, a few fundamental questions on dementia can only be answered through a comparison of the various forms. Examples of such questions are the following: Is the loss of cerebral tissue sufficient to cause dementia? Are there thresholds or is there a continuous progression toward the irreversible development of dementia? Are there common pathways in the dementing process? Are there common risk factors? Comparative analysis allows the common and distinctive patterns of the various dementias to be defined, ultimately leading to more focused therapeutic interventions.

Herbal Drugs: Ethnomedicine to Modern Medicine Springer Science & Business Media

Sirtuin Biology in Cancer and Metabolic Disease: Cellular Pathways for Clinical Discovery offers a compelling and thought-provoking perspective for the examination of the intriguing biology of sirtuins that ties cancer and metabolic disease together and provides a critical platform for the development of sirtuin-based novel therapeutic strategies to effectively treat cancer and metabolic disorders with precision in order to minimize any potentially detrimental clinical outcomes. An exciting prospect for the development of innovative therapeutics for cancer and metabolic disorders involves sirtuins. Sirtuins are histone deacetylases that have an intricate role in the onset and development of cancer and metabolic disease. Implementing a translational medicine format, this innovative reference highlights the ability of sirtuins to oversee critical pathways that involve stem cell maintenance, cellular proliferation, metabolic homeostasis, apoptosis, and autophagy that can impact cellular dysfunction and

unchecked cellular growth that can occur during cancer and metabolic disease. Each chapter offers an intuitive perspective of advances on the application of sirtuin pathways for cancer and metabolic disease that will become a "go-to" resource for a broad audience of scientists, physicians, pharmaceutical industry experts, nutritionists, and students.

Principles of Plasma Spectroscopy Elsevier

Often, a new area of science grows at the confines between recognised subject divisions, drawing upon techniques and intellectual perspectives from a diversity of fields. Such growth can remain unnoticed at first, until a characteristic family of effects, described by appropriate key words, has developed, at which point a distinct subject is born. Such is very much the case with atomic 'giant resonances'. For a start, their name itself was borrowed from the field of nuclear collective resonances. The energy range in which they occur, at the juncture of the extreme UV and the soft X-rays, remains to this day a meeting point of two different experimental techniques: the grating and the crystal spectrometer. The impetus of synchrotron spectroscopy also played a large part in developing novel methods, described by many acronyms, which are used to study 'giant resonances' today. Finally, although we have described them as 'atomic' to differentiate them from their counterparts in Nuclear Physics, their occurrence on atomic sites does not inhibit their existence in molecules and solids. In fact, 'giant resonances' provide a new unifying theme, cutting across some of the traditional scientific boundaries. After much separate development, the spectroscopies of the atom in various environments can meet afresh around this theme of common interest. Centrifugal barrier effects and 'giant resonances' proper emerged almost simultaneously in the late 1960's from two widely separated areas of physics, namely the study of free atoms and of condensed matter.

Butyrylcholinesterase CSHL Press

Completely revised, the second edition of *Key Topics in Neonatology* provides a practical, systematic reference for all the major topics in neonatal medicine. Practical and easy to use, the book retains the same well-received format as the first edition, updates subject matter where significant recent developments have taken place, and widens the scope of the text by adding entirely new coverage. Distilling this large body of information into compact yet clear topics, the authors provide succinct reviews of issues that are often skimmed over in similar sized texts. This is the resource you will want on hand to solve the complex issues you face on a daily basis. New topics include: Abdominal Wall Defects Breast Feeding Cerebral Palsy Hearing Screening Hepatitis C Metabolic Acidosis Outcomes of Neonatal Intensive Care Updated topics include: Childbirth Complications and Fetal Outcome Chromosomal Abnormalities Chronic Lung Disease Complications of Mechanical Ventilation Congenital Malformations and Birth Defects Death of a Baby Extreme Prematurity Hepatitis B HIV/AIDS Immunisation Infants of Diabetic Mothers Jaundice Liver Disorders Maternal Drug Abuse Neonatal Screening for Inherited Disease Sedation and Analgesia on the Neonatal Intensive Care Unit Seizures Transfusion of Blood and Blood Products Transport of Sick Neonates, and more

Anti-Aging Therapeutics CRC Press

Considerable progress has been made in our healthcare system, in particular with respect to sensitive diagnostic tools, reagents and very effective and precise drugs. On the other hand, high-throughput screening technology can screen vast numbers of compounds against an array of targets in a very short time, and leads thus - tained can be further explored. In developing countries, the exploding population exerts pressure not only on natural resources but also on the human population - self, whose members strive to become successful and advance in society. This leads to increased blood pressure, anxiety, obesity-associated lipid disorders, cardiovascular diseases and diabetes. Most of these diseases result in disturbed family life, including sexual behaviour. Despite technological developments, herbal drugs still occupy a preferential place in a majority of the population in the Third World and terminal patients in the West. Herbal drugs, in addition to being cost effective and easily accessible, have been used since time immemorial and have passed the test of time without having any side effects. The multitarget effects of herbs

(holistic approaches) are the fundamental basis of their utilization. This approach is already used in traditional systems of medicine like Ayurveda, which has become more popular in the West in recent years. However, the integration of modern science with traditional uses of herbal drugs is of the utmost importance if one wishes to use ancient knowledge for the betterment of humanity.

Subcortical Vascular Dementia Courier Corporation

The solar transition region, which spans the temperature range from about 20,000 to 1,000,000 K, separates the chromosphere from the corona. All the energy that heats the corona and powers the solar wind must pass through this part of the solar atmosphere. This book summarizes recent ultraviolet and extreme ultraviolet observations of the transition region, the empirical models derived from them, and the physical models that try to explain both the observations and the empirical models. The observational focus is on quiet solar transition region observations made with Skylab and subsequent rocket and satellite experiments. The book also presents a unified discussion of the analysis of ultraviolet and extreme ultraviolet spectroscopic data, including the determination of the emission measure and density and temperature diagnostics. This will be useful to astrophysicists who are confronting high-resolution ultraviolet and extreme ultraviolet data from astrophysical plasmas for the first time.

Perpetual Trouble Shooter's Manual CRC Press

Root-knot nematodes of the genus *Meloidogyne* represent one of the most damaging and agricultural important group of plant-parasitic nematodes. These nematodes are obligate sedentary endoparasites infecting most species of higher plants and have a cosmopolitan distribution. Annual worldwide economic losses due to nematode infection of crops have been estimated at several hundred billion US dollars. This book is the first complete illustrated compendium of root-knot nematode species and contains 98 species descriptions with comprehensive diagnoses, information on biology, plant-hosts, pathogenicity, symptoms, distribution and biochemical and molecular diagnostics. It also includes introductions into morphology, biology, biogeography, genomics, phylogeny and host-parasite relationships of root-knot nematodes.

Foundations of Statistical Mechanics John Wiley & Sons

This text provides expert instruction on the varying surgical techniques currently employed for the regeneration of the ocular surface. *Corneal Regeneration: Therapy and Surgery* begins with a thorough discussion of current research based on data obtained in clinical human studies, and discusses the potential clinical implications for this promising new stage of eye surgery. Sections devoted to the stem cell, regenerative surgery and therapy of the ocular surface epithelium, corneal stroma, and corneal endothelium follow, each section comprehensively covering applied anatomy, current therapy and regenerative techniques, with a look to future directions of the field including eventual cell therapy. *Corneal Regeneration: Therapy and Surgery* is the first book of its kind, systematically covering the developments the medical community has achieved in corneal regeneration from all angles. Written and edited by leading experts in the field, researchers and ophthalmologists alike will find this to be a unique source of information on corneal regeneration, as well as a thoughtful reflection on potential applications of regenerative surgery in ophthalmology as a whole.

Dementias Academic Press

The pacemaking and conduction system (PCS) is vital for generating and synchronizing the heart beat. Dysfunction of this system can be a direct cause of cardiac conduction disturbance, arrhythmias and sudden cardiac death. A wealth of information has been collected over many years on the unique histological, morphological and phenotypic characteristics of specialized cardiac tissues. The cellular and molecular mechanisms that govern development of the PCS are

now starting to be understood. This book draws together contributions from an international and interdisciplinary group of experts working on both basic and clinical aspects of cardiac development. It features reviews of the structure and function of the developing PCS, discussion of the molecular and cellular mechanisms regulating embryological development of this system and studies on the fundamental basis of PCS pathology. The book also considers how novel therapeutic interventions based on understanding of the developmental biology of cardiac pacemaking and conduction tissues might ultimately impact on clinical medicine.

The Mathematics and Mechanics of Biological Growth Springer Science & Business Media

A perceived rise in autism worldwide has led to a dramatic increase in autism research. This is a uniquely interdisciplinary text that presents the latest findings regarding the physiological, neuropathological, neurochemical and clinical elements of autism.

Sirtuin Biology in Cancer and Metabolic Disease Springer Science & Business Media

Developing a Questionnaire: 2nd Edition is a comprehensive guide to the successful design and implementation of questionnaires as a research method. It covers: - how, why and when to use questionnaires - how to analyse data - how to present results - how to relate questionnaires to other forms of research This second edition contains new chapters on the use of questionnaires in surveys, face-to-face questionnaires and telephone interviews.