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Mechanisms of Drug Interactions Springer 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 Earth's Electrical Environment Springer Science & Business Media

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.

Highly Excited Atoms Springer The theory of the inhomogeneous electron gas had its origin in the Thomas Fermi statistical theory, which is discussed in the first chapter of this book. This already leads to significant physical results for the binding energies of atomic ions, though because it leaves out shell structure the results of such a theory cannot reflect the richness of the Periodic Table. Therefore, for a long time, the earlier method proposed by Hartree, in which each electron is assigned its own personal wave function and energy, dominated atomic theory. The extension of the Hartree theory by Fock, to include exchange, had its parallel in the density description when Dirac showed how to incorporate exchange in the Thomas-Fermi theory. Considerably later, in 1951, Slater, in an important paper,

showed how a result similar to but not identical with that of Dirac followed as a simplification of the Hartree-Fock method. It was Gombas and other workers who recognized that one could also incorporate electron correlation consistently into the Thomas-Fermi-Dirac theory by using uniform electron gas relations locally, and progress had been made along all these avenues by the 1950s.

Insulin-like Growth Factors and Cancer Routledge

"This monograph is intended to give a relatively complete review of Josephson junction dynamics as it stands in the mid-1980's. The main idea of the author is to present the reader with as many useful results as possible by the simplest means, rather than to demonstrate theoretical muscle. This is why almost all the topics requiring elaborate techniques for their analysis are shifted to the ends of the chapters and the most complex chapters, to the end of the book. Topics which are of relatively minor importance for further discussion are mainly presented in the form of 'problems' at the end of the sections." -- from Preface.

UNSERE KORPERFORM UND DAS PHYS Routledge

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 be become a "go-to" resource for a broad audience of scientists, physicians, pharmaceutical industry experts, nutritionists, and students. Chapters are authored by internationally recognized experts who elucidate the intimate relationship between cancer and metabolic disease that intersects with sirtuin pathways Presents the basic and clinical role of sirtuins in regard to cancer and metabolic disease Summarizes the multidiscipline views and publications for this exciting field of sirtuins for the development of new clinical treatments for cancer and metabolic disease Provides a vital foundation for a broad audience of healthcare providers, scientists, drug developers, and students in both clinical and research settings

Anti-Aging Therapeutics Springer Science & Business Media

To a certain extent the dementias have been forgotten diseases until just recen tly 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 popula tion, 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 prac titioners, to provide some basic information on their epidemiology and biolo gical 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 answe red 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 pro cess? 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.

Dynamics of Josephson Junctions and Circuits Springer

Pre-Earthquake signals are advanced warnings of a larger seismic event. A better understanding of these processes can help to predict the characteristics of the subsequent mainshock. Pre-Earthquake Processes: A Multidisciplinary Approach to Earthquake Prediction Studies presents the latest research on earthquake forecasting and prediction based on observations and physical modeling in China, Greece, Italy, France, Japan, Russia, Taiwan, and the United States. Volume highlights include: Describes the earthquake processes and the observed physical signals that precede them Explores the relationship between pre-earthquake activity and the characteristics of subsequent seismic events Encompasses physical, atmospheric, geochemical, and historical characteristics of pre-earthquakes Illustrates thermal infrared, seismo – ionospheric, and other satellite and ground-based pre-earthquake anomalies Applies these multidisciplinary data to earthquake forecasting and prediction Written for seismologists, geophysicists, geochemists, physical scientists, students and others, Pre-Earthquake Processes: A Multidisciplinary Approach to Earthquake Prediction Studies offers an essential resource for understanding the dynamics of pre-earthquake phenomena from an international and multidisciplinary perspective.

Theory of the Inhomogeneous Electron Gas Springer Science & Business Media

This volume tries to put current therapy - achievements, shortcomings, remaining medical needs - and emerging new targets into the context of increasing knowledge regarding the genetic and neurodevelopmental contributions to the pathophysiology of schizophrenia. Some of the chapters also deal with respective experimental and clinical methodology, biomarkers, and translational aspects of drug development. The volume concentrates on reviewing the ongoing research attempting to identify novel treatments for the cognitive deficits and negative symptoms of schizophrenia, which are not treated adequately by current antipsychotic medications.

Food Texture and Viscosity: Concept and Measurement Academic Press

This innovative textbook brings together modern concepts in mathematical epidemiology, computational modeling, physics-based simulation, data science, and machine learning to understand one of the most significant problems of our current time, the outbreak dynamics and outbreak control of COVID-19. It teaches the relevant tools to model and simulate nonlinear dynamic systems in view of a global pandemic that is acutely relevant to human health. If you are a student, educator, basic scientist, or medical researcher in the natural or social sciences, or someone passionate about big data and human health: This book is for you! It serves as a textbook for undergraduates and graduate students, and a monograph for researchers and scientists. It can be used in the mathematical life sciences suitable for courses in applied mathematics, biomedical engineering, biostatistics, computer science, data science, epidemiology, health sciences, machine learning, mathematical biology, numerical methods, and probabilistic programming. This book is a personal reflection on the role of data-driven modeling during the COVID-19 pandemic, motivated by the curiosity to understand it.

Atomic Physics in Hot Plasmas Springer Science & Business Media

Using the kind permission given to me by my co-author, this short preface will be written in my name. I want to devote this book to San Juan city in Argentina. It is not only due to the fact that the city was twice completely destroyed after the devastating ear- quakes in 1941 and 1977, but also because my stay there

completely changed my life. Changes included changing my career from the field of space plasma physics to Earth sciences and geophysics, and changes in my personal life giving me h- piness and compliance in my present family. Going back to the subject of the book, it should be noted that the history of the question asked by the book is very complicated and intricate. Starting in the 1930s from the observation of seismogenic electric fields, the area of seismo-ionospheric coupling became an area of fighting and conflicts, hopes and frustrations. Spe- lation and misunderstanding on the interdisciplinary borders made this field for many years (even up to now) taboo for so-called "serious scientists". But due to the courageous efforts of several groups in Russia and the former USSR states such as Kazakhstan and Uzbekistan, Japan, later France and Taiwan, Greece and Italy the situation started to improve.

The Theory of Spectra and Atomic Constitution Academic Press

In this book new experimental investigations of properties of Josephson junctions and systems are explored with the help of recent developments in superconductivity. The theory of the Josephson effect is presented taking into account the influence of multiband and anisotropy effects in new superconducting compounds. Anharmonicity effects in current-phase relation on Josephson junctions dynamics are discussed. Recent studies in analogue and digital superconductivity electronics are presented. Topics of special interest include resistive single flux quantum logic in digital electronics. Application of Josephson junctions in quantum computing as superconducting quantum bits are analyzed. Particular attention is given to understanding chaotic behaviour of Josephson junctions and systems. The book is written for graduate students and researchers in the field of applied superconductivity.

Modern Aspects of Josephson Dynamics and Superconductivity Electronics Cambridge University Press

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.

Pre-Earthquake Processes Springer Science & Business Media

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.

Physics of Atoms and Molecules Nova Publishers

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.

Foundations of Statistical Mechanics CRC Press

Alzheimer disease (AD) has become the most common form of dementia in industrialized countries and represents an increasing burden at the economic, social and medical level. In discussing both the

biological aspects of AD as well as the cognitive functions involved, Alzheimer Disease - Neuropsychology and Pharmacology presents a comprehensive picture of the pathology and approaches to diagnosis and treatment. Basic research including animal models, molecular and genetic aspects is also taken into consideration. In part I, the biological correlates of AD are discussed. In part II the neuropsychological aspects such as cognitive impairment, loss of functional autonomy and emergence of neuropsychiatric disturbances of AD are outlined. In part III, strategies for effective treatment and prevention of AD are discussed. This book will be a useful source of information for clinicians as well as researchers in the area of neuropharmacology.

Herbal Drugs: Ethnomedicine to Modern Medicine John Wiley & Sons

The book will detail the history, successes, and failures of targeted therapies for cancer, with a particular focus on IGF systems and cancer.

Systematics of Root-knot Nematodes (Nematoda: Meloidogynidae) Wentworth Press

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 fami ly 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 accross 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.

Molecular Biology of Aging Elsevier

For beginners and specialists in other fields: the Nobel Laureate's introduction to atomic spectra and their relationship to atomic structures, stressing basics in a physical, rather than mathematical, treatment. 80 illustrations.

Septic Tank System Effects on Ground Water Quality Springer Science & Business Media

International Series of Monographs in Natural Philosophy, Volume 22: Foundations of Statistical Mechanics: A Deductive Treatment presents the main approaches to the basic problems of statistical mechanics. This book examines the theory that provides explicit recognition to the limitations on one's powers of observation. Organized into six chapters, this volume begins with an overview of the main physical assumptions and their idealization in the form of postulates. This

text then examines the consequences of these postulates that culminate in a derivation of the fundamental formula for calculating probabilities in terms of dynamic quantities. Other chapters provide a careful analysis of the significant notion of entropy, which shows the links between thermodynamics and statistical mechanics and also between communication theory and statistical mechanics. The final chapter deals with the thermodynamic concept of entropy. This book is intended to be suitable for students of theoretical physics. Probability theorists, statisticians, and philosophers will also find this book useful.

Key Topics in Neonatology Springer

This latest addition to the Studies in Geophysics series explores in scientific detail the phenomenon of lightning, cloud, and thunderstorm electricity, and global and regional electrical processes. Consisting of 16 papers by outstanding experts in a number of fields, this volume compiles and reviews many recent advances in such research areas as meteorology, chemistry, electrical engineering, and physics and projects how new knowledge could be applied to benefit mankind.