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Aspects of Demotic Lexicography Oriental Institute Press
 This volume publishes the proceedings of the eleventh annual University of Chicago Oriental Institute Seminar. Its central goal is to present a cross-cultural study of the intersection between law and gender relations in the ancient world, with a focus on the ancient Near East. When reflecting upon the formation, perpetuation, and interactions of social structures that frequently come into conflict with each other, one discovers that gender constructs are used by mechanisms of social monitoring and control; structures of power. One such example is the realm of jurisdiction and legislation. This volume uses the sphere of legal institutions as a prism through which to consider gender relations in the ancient world, both in the Near East and beyond. The way in which similar issues were manifested in different cultural and historical contexts is examined, with the goal of identifying common denominators as well as particularities. The three themes discussed in this volume are examined through multiple historical-cultural examples.

Protein Physics Elsevier Health Sciences
 This book examines the ways in which lived religion in Roman Italy involved personal and communal experiences of the religious agency generated when ritualised activities caused human and more-than-human things to become bundled together into relational assemblages. Drawing upon broadly posthumanist and new materialist theories concerning the thinginess of things, it sets out to re-evaluate the role of the material world within Roman religion and to offer new perspectives on the formation of multi-scalar forms of ancient religious knowledge. It explores what happens when a materially informed approach is systematically applied to the investigation of typical questions about Roman religion such as: What did Romans understand 'religion' to mean? What did religious experiences allow people to understand about the material world and their own place within it? How were experiences of ritual connected with shared beliefs or concepts about the relationship between the mortal and divine worlds? How was divinity constructed and perceived? To answer these questions, it gathers and evaluates archaeological evidence associated with a series of case studies. Each of these focuses on a key component of the ritualised assemblages shown to have produced Roman religious agency - place, objects, bodies, and divinity - and centres on an examination of experiences of lived religion as it related to the contexts of monumentalised sanctuaries, cult instruments used in public sacrifice, anatomical votive offerings, cult images and the qualities of divinity, and

magic as a situationally specific form of religious knowledge. By breaking down and then reconstructing the ritualised assemblages that generated and sustained Roman religion, this book makes the case for adopting a material approach to the study of ancient lived religion.

Chronopharmacology Routledge

"The book contains the essential information that wildlife biologists and managers use to manage wildlife populations today, and it gives students the information they need to pursue a profession in wildlife management and conservation"--

Soils of Volcanic Regions in Europe CRC Press

Composed of nearly a thousand different types of microorganisms - some beneficial, others not - the human gut microbiota plays an important role in health and disease. This is due to the presence of probiotic or beneficial microbes, or due to the feeding of prebiotics that stimulate the endogenous beneficial microbes (these promote health by stimulating the immune system, improving the digestion and absorption of nutrients, and inhibiting the growth of pathogens). The notable health benefits of probiotic organisms have prompted much commercial interest, which in turn has led to a plethora of research initiatives in this area. These range from studies to elucidate the efficacy of the various health benefits to analyses of the diet-microbe interaction as a means of modulating the gut microbiota composition. Research in this area is at a very exciting stage. With state-of-the-art commentaries on all aspects of probiotics and prebiotics research, this book provides an authoritative and timely overview of the field. Written by leading international researchers, each chapter affords critical insight to a particular topic, reviews current research, discusses future direction, and stimulates discussion. Topics range from the different microorganisms used as probiotics (lactobacilli, bifidobacteria, yeast, etc.), and the techniques and approaches used (metagenomics, etc.), to the reviews of the clinical and medical aspects. The provision of extensive reference sections positively encourages readers to pursue each subject in greater detail. *** Librarians: ebook available on ProQuest and EBSCO [Subject: Microbiology, Life Science]

Physics of Ionic Conduction in Narrow Biological and Artificial Channels- Publish Springer Science & Business Media

The last twenty years has seen the biggest revolution in the treatment of renal tract stone that has ever been experienced in the history of urolithiasis. The treatment of upper tract renal stone has progressed from the days of a very traumatic and morbid procedure to the relatively innocuous, walk in/walk out therapy of extracorporeal lithotripsy. This progression of events has resulted in a complete reappraisal of management of all types of urinary calculi. From an initial reluctance to treat many stones because of the trauma involved, we have now passed to a

situation where smaller and asymptomatic stones may be preemptively treated before the treatment of serious clinical problems. It is true to say that in Westernized societies the problem of urolithiasis has almost completely been solved by the advent of advanced technology. In this volume, attention is drawn to the fact that there are still persistent difficulties in treating urolithiasis in the less developed and less affluent societies. The differences in epidemiology of urolithiasis in various areas of the world are highlighted, noting a rapid decrease in the incidence of bladder calculi in impoverished areas where affluence increases. Coupled with this progression of affluence however is the well documented increase in the incidence of upper tract renal stones of oxalate nature. This scenario has been almost universal across all countries in the last few decades.

Satellite Microwave Remote Sensing CRC Press

Biotechnology has immense potential for resolving environmental problems and augmenting food production. Particularly, it offers solutions for converting solid wastes into value-added items. In food processing industries that generate voluminous by-products and wastes, valorization can help offset growing environmental problems and facilitate the sustainable use of available natural resources. Valorization of Food Processing By-Products describes the potential of this relatively new concept in the field of industrial residues management. The debut book in CRC Press's new Fermented Foods and Beverages Series, this volume explores the current state of the art in food processing by-products with respect to their generation, methods of disposal, and problems faced in terms of waste and regulation. It reviews the basic fundamental principles of waste recycling, including process engineering economics and the microbiology and biochemical and nutritional aspects of food processing. It discusses fermentation techniques available for valorization of food processing by-products, enzyme technologies, and analytical techniques and instrumentation. Individual chapters examine the by-products of plant-based and animal-based food industries. The book also delves into socioeconomic considerations and environmental concerns related to food processing by-products. It surveys research gaps and areas ripe for further inquiry as well as future trends in the field. An essential reference for researchers and practitioners in the food science and food technology industry, this volume is also poised to inspire those who wish to take on valorization of food by-products as a professional endeavor. A contribution toward sustainability, valorization makes maximum use of agricultural produce while employing low-energy and cost-effective processes.

Cell and Molecular Biology of Breast Cancer Springer Science & Business Media

This book contains 14 original review chapters each yielding new,

exciting and intriguing data about the emerging understanding of nucleolar structure and function in normal, stressed and diseased cells. The goal of this work is to provide special insight into the nucleolus of the past, present and future, as well its regulation, translocation, and biomedical function. A multitude of topics are introduced and discussed in detail, including nucleologenesis, nucleolar architecture, nucleolar targeting, retention, anchoring, translocation, and the relationship between the nucleolus and cancer. This book also brings together work from several different species, from human to *Drosophila* to *Dictyostelium* and other eukaryotic microbes. The final chapter summarizes some of the issues brought up in the various chapters with a view to future research. This book supports the continued emergence of the nucleolus as a dynamic intranuclear region that oversees a vast diversity of events.

Negative Group Delay Devices A&C Black

In the past few decades, it has been realized through research that fungal siderophores epitomize the uptake of iron as well as other essential elements like zinc, magnesium, copper, nickel and arsenic. Understanding the chemical structures of different fungal siderophores and the membrane receptors involved in uptake of mineral ions has opened new areas for research. In this edited volume, recent research is presented on fungal siderophores in one comprehensive volume to provide researchers a strong base for future research. Siderophores are the low molecular weight, high affinity iron-chelating compounds produced by bacteria and fungi. They are responsible for transporting iron across the cell membrane. Fungi produce a range of hydroxamate siderophores involved in the uptake of essential elements in almost all microorganisms and plants. In recent years, siderophores have been used in molecular imaging applications to visualize and understand cellular functions, which thus provide an opportunity to identify new drug targets. Therefore, knowledge of fungal siderophores has become vital in current research. Siderophores have received much attention in recent years because of their potential roles and applications in various research areas. Their significance in these applications is because siderophores have the ability to bind a variety of metals in addition to iron, and they have a wide range of chemical structures and specific properties. For instance, siderophores function as biocontrols, biosensors, and bioremediation and chelation agents, in addition to their important role in weathering soil minerals and enhancing plant growth. This book focuses on siderophores with the following significant points. It discusses leading, state-of-the-art research in all possible areas on fungal siderophores. The contributors are well-known and recognized authorities in the field of fungal siderophores. It discusses a projection of practical applications of fungal siderophores in various domains. This is the first book exclusively on fungal siderophores. In this comprehensive, edited volume, we show leading research on fungal siderophores and provide the most recent knowledge of researchers' work on siderophores. This book presents in-depth knowledge on siderophores to researchers working in areas of health sciences, microbiology, plant sciences, biotechnology, and bioinformatics. AACR2-e Mdpi AG

This issue of Recent Results in Cancer Research presents a comprehensive review of current understanding of chromosomal instability in cancer and of strategies to use this information for better treatment of patients with cancer. Cancer is a disease of the chromosomes, and chromosomal instability in cancer disrupts gene function by either inactivating tumor suppressor genes or activating growth-promoting oncogenes. The chromosomal basis for these aberrations is either translocations, which change the integrity of genes, or abnormal numbers of chromosomes, a condition referred to as aneuploidy, which results in abnormal gene expression levels. Such structural or numerical chromosomal aberrations are specific for distinct tumor entities. The degree of chromosomal instability and the degree of intratumor heterogeneity have profound consequences for disease outcome and for therapeutic stratification.

Out of Order Mohr Siebeck

Science and Homosexualities is the first anthology by historians of science to examine European and American scientific research on sexual orientation since the coining of the word "homosexual" almost 150 years ago. This collection is particularly timely given the enormous scientific and popular interest in biological studies of homosexuality, and the importance given such studies in current legal, legislative and cultural debates concerning gay civil rights. However, scientific and popular literature discussing the biology of sexual orientation have been short-sighted in representing it as objective, new scientific work. This volume demonstrates that the quest for the biological "cause" of homosexuality and other sexualities is as old as the term itself. These essays explore the active role experimental subjects played in shaping scientific theories of homosexuality and cultural perceptions of sexuality and sexual identity. Finally this anthology

studies the way in which this doctor-patient interaction shaped not only scientific theories of homosexuality, but also cultural perceptions and self-identities as well. Contributors include: Garland E. Allen, Erin G. Carlston, Julian Carter, Alice D. Dreger, Anne Fausto-Sterling, Margaret Gibson, Stephanie Kenen, Hubert Kennedy, Harry Oosterhuis, James Steakley, Richard Pillard, Jennifer Terry

Algebraic Cryptanalysis Springer

John Granger Cook traces the use of the penalty by the Romans until its probable abolition by Constantine. Rabbinic and legal sources are not neglected. The material contributes to the understanding of the crucifixion of Jesus and has implications for the theologies of the cross in the New Testament. Images and photographs are included in this volume.

Concerning the Origin of Malignant Tumours Springer Science & Business Media

Homosexuality continues to be a much debated subject in church and society. Many people use the Bible to form their opinions on gay marriage, gays in the church, etc. In *Out of Order*, Dr. Wold thoroughly examines the biblical references to homosexuality while at the same time explaining the nature of same-sex relations in the ancient Near East. The author states: "What is needed in the current debate regarding the Bible and homosexuality is a spirit of reconciliation rather than condemnation or confrontation on the part of all who address this issue."

Crucifixion in the Mediterranean World JHU Press

This book provides current, comprehensive, and clear explanations of the physics behind medical and biomedical applications of shock waves. Extracorporeal shock wave lithotripsy is one of the greatest medical advances of our time, and its techniques and clinical devices are continuously evolving. Further research continues to improve the understanding of calculi fragmentation and tissue-damaging mechanisms. Shock waves are also used in orthopedics and traumatology. Possible applications in oncology, cardiology, dentistry, gene therapy, cell transfection, transformation of fungi and bacteria, as well as the inactivation of microorganisms are promising approaches for clinical treatment, industrial applications and research. *Medical and Biomedical Applications of Shock Waves* is useful as a guide for students, technicians and researchers working in universities and laboratories. Chemists, biologists, physicians and veterinarians, involved in research or clinical practice will find useful advice, but also engineers and physicists may benefit from the overview of current research endeavors and future directions. Furthermore, it may also serve to direct manufacturers towards the design of more efficient and safer clinical, industrial and laboratory equipment.

Guide to Current Medical Literature and General Index of the Journal Pergamon

This book provides an overview on the organization and function of the microtubule cytoskeleton, which is essential to many cellular processes and profoundly linked to a range of human diseases. Covering basic concepts as well as molecular details, the book discusses how microtubules are nucleated and organized into ordered arrays, at different cell cycle stages and in distinct cell types. In addition, the book highlights how defects in the microtubule cytoskeleton are linked to diseases such as neurodevelopmental disorders. The book is intended for students, graduates and more senior researchers in cell and developmental biology as well as for medical doctors.

Cumulated Index Medicus Elsevier

This book offers a thorough review of the scientific research that links the consumption of grapes to better health. The book starts with a basic review of grape biology, including the key families of phytochemicals found in grapes, and where they are found. An overview of the rationale for and subsequent creation of a standardized grape powder for use in basic and clinical research provides insight and understanding regarding its widespread use in grape-specific research today. The remaining chapters each thoroughly examine a key area of health, demonstrating a significant scope of impact on well-being. The book examines the role of grapes in supporting heart health under multiple angles: general cardiovascular effects, as well as specific effects directly linked to atherosclerosis and hypertension. Other emerging and important areas of health are examined, ranging from grapes and cancer, where grape consumption has been shown to protect healthy colon tissue; grapes and inflammation, where grapes have been shown to block inflammatory activity in immune cells of fat tissue; to brain health, where a grape-enriched diet has been shown to protect against neuronal damage due to loss of oxygen in the brain, as well as against oxidative stress-related anxiety and resulting memory loss; to grapes and eye health where grape consumption has been shown to protect the retina from damage.

Bladder Tumors: Institution of Engineering and Technology

Contains complete text of the Anglo-American Cataloging Rules, 2d ed., 1998 rev., including all amendments, all appendices, a fully searchable table of contents and index, a tutorial, and Folio Views Infobase.

Nursing Interventions Classification (NIC) Springer Science & Business Media

The book reprints a set of important scientific papers applying physics and mathematics to address the problem of selective ionic conduction in narrow water-filled channels and pores. It is a long-standing problem, and an extremely important one. Life in all its forms depends on ion channels and, furthermore, the technological applications of artificial ion channels are already widespread and growing rapidly. They include desalination, DNA sequencing, energy harvesting, molecular sensors, fuel cells, batteries, personalised medicine, and drug design. Further applications are to be anticipated. The book will be helpful to researchers and technologists already working in the area, or planning to enter it. It gives detailed descriptions of a diversity of modern approaches, and shows how they can be particularly effective and mutually reinforcing when used together. It not only provides a snapshot of current cutting-edge scientific activity in the area, but also offers indications of how the subject is likely to evolve in the future.

The Microtubule Cytoskeleton Mdpi AG

Covering the full range of nursing interventions, *Nursing Interventions Classification (NIC)*, 6th Edition provides a research-based clinical tool to help in selecting appropriate interventions. It standardizes and defines the knowledge base for nursing practice while effectively communicating the nature of nursing. More than 550 nursing interventions are provided - including 23 NEW labels. As the only comprehensive taxonomy of nursing-sensitive interventions available, this book is ideal for practicing nurses, nursing students, nursing administrators, and faculty seeking to enhance nursing curricula and improve nursing care. More than 550 research-based nursing intervention labels with nearly 13,000 specific activities Definition, list of activities, publication facts line, and background readings provided for each intervention. NIC Interventions Linked to 2012-2014 NANDA-I Diagnoses promotes clinical decision-making. New! Two-color design provides easy readability. 554 research-based nursing intervention labels with nearly 13,000 specific activities. NEW! 23 additional interventions include: Central Venous Access Device Management, Commendation, Healing Touch, Dementia Management: Wandering, Life Skills Enhancement, Diet Staging: Weight Loss Surgery, Stem Cell Infusion and many more. NEW! 133 revised interventions are provided for 49 specialties, including five new specialty core interventions. NEW! Updated list of estimated time and educational level has been expanded to cover every intervention included in the text.

Probiotics and Prebiotics Academic Press

Highlighting recent advances in our understanding of breast cancer, this book is intended for a wide audience as a reference book. Included are reviews of genetics, epigenetics, various aspects of cell and molecular biology, and several other areas of breast cancer that are aimed at determining new intervention sites for treatments and cures of the disease. The chapters are written by internationally recognized experts and include reviews of key topics in breast cancer research. Each chapter highlights the new aspects of specific research topics and the various impacts of designing new strategies as well as identifies new targets for therapeutic intervention. The topics addressed are selected to be of interest to patients, scientists, students, teachers, and anyone else interested in expanding their knowledge of breast cancer imaging, diagnostics, therapeutics, or basic biomedical research on breast cancer.

Medical and Biomedical Applications of Shock Waves John Wiley & Sons

Genome Chaos: Rethinking Genetics, Evolution, and Molecular Medicine transports readers from Mendelian Genetics to 4D-genomics, building a case for genes and genomes as distinct biological entities, and positing that the genome, rather than individual genes, defines system inheritance and represents a clear unit of selection for macro-evolution. In authoring this thought-provoking text, Dr. Heng invigorates fresh discussions in genome theory and helps readers reevaluate their current understanding of human genetics, evolution, and new pathways for advancing molecular and precision medicine. - Bridges basic research and clinical application and provides a foundation for re-examining the results of large-scale omics studies and advancing molecular medicine - Gathers the most pressing questions in genomic and cytogenomic research - Offers alternative explanations to timely puzzles in the field - Contains eight evidence-based chapters that discuss 4D-genomics, genes and genomes as distinct biological entities, genome chaos and macro-cellular evolution, evolutionary cytogenetics and cancer, chromosomal coding and fuzzy inheritance, and more