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COOLEY CARLSON

An Overview of Current Research John Wiley & Sons

First published in 1996, this volume has been substantially updated to reflect new research in the conservation of stone monuments, sculpture, and archaeological sites.

Ductile Fracture Alkoxysilanes and the Consolidation of Stone

This first systematic compilation of synthesis methods for different classes of polymers describes well-tested and reproducible procedures, thus saving time, money and chemicals. Each chapter presents the latest method for a specific class of conjugated polymers with a particular emphasis on the design aspects for organo-electronic applications. In this concise and practically oriented manner, readers are introduced to the strategies of influencing and controlling the polymer properties with respect to their use in the desired device. This style of presentation quickly helps researchers in their daily lab work and prevents them from reinventing the wheel over and over again.

Analytical Chemistry of PCBs Springer Science & Business Media

The book describes how the balance between pro- and anti-inflammatory molecules is related to health and disease. It is suggested that many diseases are initiated and their progress is influenced by inflammatory molecules and a decrease in the production and/or action of anti-inflammatory molecules and this imbalance between pro- and anti-inflammatory molecules seems to have been initiated in the perinatal period. This implies that strategies to prevent and manage various adult diseases should start in the perinatal period. An alteration in the metabolism of essential fatty acids and their anti-inflammatory molecules such as lipoxins, resolvins, protectins, maresins and nitrolipids seems to play a major role in the pathobiology of several adult diseases. Based on these concepts, novel therapeutic approaches in the management of insulin resistance, obesity, type 2 diabetes mellitus, metabolic syndrome, cancer, lupus, rheumatoid arthritis and other auto-immune diseases are presented. Based on all these evidences, a unified concept that several adult diseases are due to an alteration in the balance between pro- and anti-inflammatory molecules is discussed and novel methods of their management are presented.

Alkoxysilanes and the Consolidation of Stone National Academies Press

This updated and expanded Second Edition of Dr. Erickson's Analytical Chemistry of PCBs appears a decade after the first and is completely revised and updated. The changes from the First Edition reflect the significant growth in the area and a growing appreciation of the importance of PCB analysis to our culture. This book is a comprehensive review of the analytical chemistry of PCBs. It is part history, part annotated bibliography, part comparison, and part guidance. Featuring a new chapter on analyst/customer interactions and several new appendices, the Second Edition is an invaluable resource for both chemists with no experience in PCB analysis and seasoned PCB researchers. All topics have been more thoroughly treated and updated in this new edition to reflect advances made in the last decade, especially:

Terra 2008 Academic Press

A serious problem facing museum professionals is the protection of collections from damage due to insects. This book describes successful insect eradication procedures developed at the Getty Conservation Institute and elsewhere, whereby objects are held in an atmosphere of either nitrogen or argon containing less than 1000 ppm of oxygen—a process known as anoxia—or in an atmosphere of more than 60 percent carbon dioxide. Techniques, materials, and operating parameters are described in detail. The book also discusses adoption of this preservation technology, presenting the development of these methods and instructions for building and upgrading treatment systems, as well as recent case histories. The Research in Conservation reference series presents the findings of research conducted by the Getty Conservation Institute and its individual and institutional research partners, as well as state-of-the-art reviews of conservation

literature. Each volume covers a topic of current interest to conservators and conservation scientists.

Sjögren's Syndrome CRC Press

The subject of optimum composite structures is a rapidly evolving field and intensive research and development have taken place in the last few decades. Therefore, this book aims to provide an up-to-date comprehensive overview of the current status in this field to the research community. The contributing authors combine structural analysis, design and optimization basis of composites with a description of the implemented mathematical approaches. Within this framework, each author has dealt with the individual subject as he/she thought appropriate. Each chapter offers detailed information on the related subject of its research with the main objectives of the works carried out as well as providing a comprehensive list of references that should provide a rich platform of research to the field of optimum composite structures.

Modal Analysis CRC Press

It is commonly accepted that the majority of engineering failures happen due to fatigue or fracture phenomena. Adhesive bonding is a prevailing joining technique, widely used for critical connections in composite structures. However, the lack of knowledge regarding fatigue and fracture behaviour, and the shortage of tools for credible fatigue design, hinders the potential benefits of adhesively bonded joints. The demand for reliable and safe structures necessitates deep knowledge in this area in order to avoid catastrophic structural failures. This book reviews recent research in the field of fatigue and fracture of adhesively-bonded composite joints. The first part of the book discusses the experimental investigation of the reliability of adhesively-bonded composite joints, current research on understanding damage mechanisms, fatigue and fracture, durability and ageing as well as implications for design. The second part of the book covers the modelling of bond performance and failure mechanisms in different loading conditions. A detailed reference work for researchers in aerospace and engineering Expert coverage of different adhesively bonded composite joint structures An overview of joint failure

Balancing Societal and Individual Benefits and Risks of Prescription Opioid Use Oxford University Press

This book, based on extensive original research, examines the spatial structure and geographical implications of modern multinational corporations. It looks at the geography of multinational corporations, relates this geography to management and decision making structures and discusses how these items are changing. Exploring the themes of centre and periphery in the corporation it surveys the impact of corporate change and restructuring on regional economies.

Aspirin and Related Drugs Wiley-ISTE

This book, the first edition of which was published in 1982, has been largely rewritten with many new figures, to take account of recent information resulting from the huge rate of publication of scientific papers and books on fishes. As an example, the continuing series "Fish Physiology" (Academic Press) has just reached its 12th volume, covering in two parts only the cardio-vascular systems of fishes. The original authors, Q. Bone and N.B. Marshall, invited J.H.S. Blaxter to help widen the expertise on fish reproduction, behaviour and exploitation, leading to new chapters on behaviour, fisheries and aquaculture. A chapter on endocrines has been added and earlier chapters have been brought up-to-date. We have chosen those topics which seem to us to be most useful and interesting, inevitably reflecting our own fields of interest. We have, however, tried to make the bibliography sufficiently wide ranging for the reader to find an introduction to those topics not covered, and to be able to enjoy further forays into those that are. Fish are the most varied and abundant of vertebrates and the commercial and sport fisheries are of great economic importance. Fish stocks are not vulnerable to drought, as are so many terrestrial sources of protein, but they are highly vulnerable to pollution and overfishing. At least 80% of fish are caught by hunting and this proportion is unlikely to fall; many stocks are shared and lead to political decision-making about management.

Cannabis Springer

Some investigators have hypothesized that estrogens and other hormonally active agents found in the environment might be involved in breast cancer increases and sperm count declines in humans as well as deformities and reproductive problems seen in wildlife. This book looks in detail at the science behind the ominous prospect of "estrogen mimics" threatening health and well-being, from the level of ecosystems and populations to individual people and animals. The committee identifies research needs and offers specific recommendations to decisionmakers. This authoritative volume: Critically evaluates the literature on hormonally active agents in the environment and identifies known and suspected toxicologic mechanisms and effects of fish, wildlife, and humans. Examines whether and how exposure to hormonally active agents occurs--in diet, in pharmaceuticals, from industrial releases into the environment--and why the debate centers on estrogens. Identifies significant uncertainties, limitations of knowledge, and weaknesses in the scientific literature. The book presents a wealth of information and investigates a wide range of examples across the spectrum of life that might be related to these agents.

Cardiac Tissue Engineering Getty Publications

Stone is one of the oldest building materials, and its conservation ranks as one of the most challenging in the field. The use of alkoxysilanes in the conservation of stone can be traced as far back as 1861, when A. W. von Hoffman suggested their use for the deteriorating limestone on the Houses of Parliament in London. Alkoxysilane-based formulations have since become the material of choice for the consolidation of stone outdoors. This volume, the first to cover comprehensively alkoxysilanes in stone consolidation, synthesizes the subject's vast and extensive literature, which ranges from production of alkoxysilanes in the nineteenth century to the extensive contributions from sol-gel science in the 1980s and 90s. Included are a historical overview, an annotated bibliography, and discussions of the following topics: the chemistry and physics of alkoxysilanes and their gels; the influence of stone type; commercial and noncommercial formulations; practice; lab and field evaluation of service life; and recent developments. This book is designed for conservators, scientists, and preservation architects in the field of stone conservation and will also serve as an indispensable introduction to the subject for students of art conservation and historic preservation.

Proceedings of the 3rd International Conference on Renewable Energies Offshore (RENEW 2018), October 8-10, 2018, Lisbon, Portugal Woodhead Publishing

In addition it also examines the complex morphology, cultivation, harvesting, and processing of cannabis and the ways in which the plant's chemical composition can be controlled. As well as offering a raft of scientific information there is extensive coverage of cannabinoid-based medicines. Helping readers to identify and evaluate their benefits, chapters explore pharmacological actions and the effects that seem to underlie approved therapeutic uses, how they are currently used to treat certain disorders, and the ever-growing number of wide-ranging potential clinical applications. There is also coverage of both the legal and illegal sources of cannabis, including 'coffee shops' and 'cannabis dispensaries'. The complex issue of 'recreational cannabis' is also tackled.

Effects of Light on Materials in Collections Springer Science & Business Media

Composite materials, with their higher exposure to dynamic loads, have increasingly been used in aerospace, naval, automotive, sports and other sectors over the last few decades. Dynamic Deformation, Damage and Fracture in Composite Materials and Structures reviews various aspects of dynamic deformation, damage and fracture, mostly in composite laminates and sandwich structures, in a broad range of application fields including aerospace, automotive, defense and sports engineering. As the mechanical behavior and performance of composites varies under different dynamic loading regimes and velocities, the book is divided into sections that examine the different loading regimes and velocities. Part one examine low-velocity loading and part two looks at high-velocity loading. Part three then assesses shock and blast (i.e. contactless) events and the final part focuses on impact (contact) events. As sports applications of composites are linked to a specific subset of dynamic loading regimes, these applications are reviewed in the final part. Examines dynamic deformation and fracture of composite materials Covers experimental, analytical and numerical aspects Addresses important application areas such as aerospace, automotive, wind energy and defence, with a special section on sport applications

From Nano to Macro CRC Press

Neurofibrillary tangles (NFTs) composed of intracellular aggregates of tau protein are a key neuropathological feature of Alzheimer's Disease (AD) and other neurodegenerative diseases, collectively termed tauopathies. The abundance of NFTs has been reported to correlate positively with the severity of cognitive impairment in AD. However, accumulating evidences derived from studies of experimental models have identified that NFTs themselves may not be neurotoxic. Now, many of tau researchers are seeking a "toxic" form of tau protein. Moreover, it was suggested that a "toxic" tau was capable to seed aggregation of native tau protein and to propagate in a prion-like manner. However, the exact neurotoxic tau species remain unclear. Because mature tangles seem to be non-toxic component, "tau oligomers" as the candidate of "toxic" tau have been investigated for more than one decade. In this topic, we will discuss our consensus of "tau oligomers" because the term of "tau oligomers" [e.g. dimer (disulfide bond-dependent or independent), multimer (more than dimer), granular (definition by EM or AFM) and maybe small filamentous aggregates] has been used by each researchers definition. From a biochemical point of view, tau protein has several unique characteristics such as natively unfolded conformation, thermo-stability, acid-stability, and capability of post-translational modifications. Although tau protein research has been continued for a long time, we are still missing the mechanisms of NFT formation. It is unclear how the conversion is occurred from natively unfolded protein to abnormally mis-folded protein. It remains unknown how

tau protein can be formed filaments [e.g. paired helical filament (PHF), straight filament and twisted filament] in cells albeit in vitro studies confirmed tau self-assembly by several inducing factors. Researchers are still debating whether tau oligomerization is primary event rather than tau phosphorylation in the tau pathogenesis. Inhibition of either tau phosphorylation or aggregation has been investigated for the prevention of tauopathies, however, it will make an irrelevant result if we don't know an exact target of neurotoxicity. It is a time to have a consensus of definition, terminology and methodology for the identification of "tau oligomers".

Advances in Renewable Energies Offshore Getty Publications

Drug overdose, driven largely by overdose related to the use of opioids, is now the leading cause of unintentional injury death in the United States. The ongoing opioid crisis lies at the intersection of two public health challenges: reducing the burden of suffering from pain and containing the rising toll of the harms that can arise from the use of opioid medications. Chronic pain and opioid use disorder both represent complex human conditions affecting millions of Americans and causing untold disability and loss of function. In the context of the growing opioid problem, the U.S. Food and Drug Administration (FDA) launched an Opioids Action Plan in early 2016. As part of this plan, the FDA asked the National Academies of Sciences, Engineering, and Medicine to convene a committee to update the state of the science on pain research, care, and education and to identify actions the FDA and others can take to respond to the opioid epidemic, with a particular focus on informing FDA's development of a formal method for incorporating individual and societal considerations into its risk-benefit framework for opioid approval and monitoring.

Methods and Protocols Frontiers E-books

Written by experts, Exposure Analysis is the first complete resource in the emerging scientific discipline of exposure analysis. A comprehensive source on the environmental pollutants that affect human health, the book discusses human exposure through pathways including air, food, water, dermal absorption, and, for children, non-food ingestion. The book summarizes existing definitions of exposure, dose, and related concepts and provides the mathematical framework at the heart of these conceptual definitions. Using secondhand smoke as an example, the book illustrates how exposure analysis studies can change human behavior and improve public health. An extensive section on air pollutants considers volatile organic compounds (VOCs), carbon monoxide (CO), fine and ultrafine particles, and the latest personal air quality monitors for measuring individual exposure. Another detailed section examines exposures to pesticides, metals such as lead, and dioxin that may occur through multiple routes such as air, food, and dust ingestion. The book explores important aspects of dermal exposure such as the absorption of volatile organic compounds while showering or bathing and exposure through multiple carrier media. The authors describe quantitative methods that have been validated for predicting the concentrations in enclosed everyday locations, such as automobiles and rooms of the home. They also discuss existing laws and examine the relationship between exposure and national policies. Defining the new field of exposure analysis, this book provides the basic tools needed to identify sources, understand causes, measure exposures, and develop strategies for improving public health.

The Physics and Chemistry of Sol-Gel Processing CRC Press

Cardiac Tissue Engineering: Methods and Protocols presents a collection of protocols on cardiac tissue engineering from pioneering and leading researchers around the globe. These include methods and protocols for cell preparation, biomaterial preparation, cell seeding, and cultivation in various systems. Written in the highly successful *Methods in Molecular Biology* series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and key tips on troubleshooting and avoiding known pitfalls. Authoritative and practical, *Cardiac Tissue Engineering: Methods and Protocols* highlights the major techniques, both experimental and computational, for the study of cardiovascular tissue engineering.

Dynamic Deformation, Damage and Fracture in Composite Materials and Structures MDPI

Alkoxysilanes and the Consolidation of Stone Getty Publications

The Minipig in Biomedical Research Getty Publications

Earthen architecture constitutes one of the most diverse forms of cultural heritage and one of the most challenging to preserve. It dates from all periods and is found on all continents but is particularly prevalent in Africa, where it has been a building tradition for centuries. Sites range from ancestral cities in Mali to the palaces of Abomey in Benin, from monuments and mosques in Iran and Buddhist temples on the Silk Road to Spanish missions in California. This volume's sixty-four papers address such themes as earthen architecture in Mali, the conservation of living sites, local knowledge systems and intangible aspects, seismic and other natural forces, the conservation and management of archaeological sites, research advances, and training.

Fatigue and Fracture of Adhesively-Bonded Composite Joints Humana Press

Sjögren's Syndrome: Diagnosis and Therapeutics provides a thorough, multisystemic overview of the clinical manifestations of Sjögren's Syndrome. It contains chapters pertinent across the range of medical specialties that may encounter Sjögren's Syndrome cases. Chapters are specialty-specific, for easy reference by the relevant medical specialist. In addition to being a diagnostic guide, *Sjögren's Syndrome: Diagnosis and Therapeutics* includes a section on prognosis and outcomes of Sjögren's Syndrome patients and provides an exhaustive therapeutic update, focused on new agents and experimental techniques. The inclusion of diagnostic/therapeutic algorithms illustrates the text with clinical photographs of the main organs involved and helps the reader to make guided diagnostic and therapeutic decisions through decision-based algorithms.

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