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Protein Misfolding, Aggregation and Conformational Diseases
 Environmental Biotechnology
 Cursor Mundi
 Proceedings of the Sixth World Congress on Engineering Asset Management
 International Plastics Handbook
 Vindolanda
 Sustainable Agriculture Reviews
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EMILIANO REBEKAH

Protein Misfolding, Aggregation and Conformational Diseases Carl Hanser Verlag GmbH Co KG

Pre-modern critical interactions of nature and society can best be studied during the so-called "Crisis of the 14th Century". While historiography has long ignored the environmental framing of historical processes and scientists have over-emphasized nature's impact on the course of human history, this volume tries to describe the at times complex modes of the late-medieval relationship of man and nature. The idea of 'teleconnection', borrowed from the geosciences, describes the influence of atmospheric circulation patterns often over long distances. It seems that there were 'teleconnections' in society, too. So this volume aims to examine man-environment interactions mainly in the 14th century from all over Europe and beyond. It integrates contributions from different disciplines on impact, perception and reaction of environmental change and natural extreme events on late Medieval societies. For humanists from all historical disciplines it offers an approach how to integrate written and even scientific evidence on environmental change in established and new fields of historical research. For scientists it demonstrates the contributions scholars from the humanities can provide for discussion on past environmental changes.

Environmental Biotechnology Springer Science & Business Media
 A one-stop resource for both researchers and development engineers, this comprehensive handbook serves as a daily reference, replacing heaps of individual papers. This second edition features twenty percent more content with new chapters on battery characterization, process technology, failure mechanisms and method development, plus updated information on classic batteries as well as entirely new results on advanced approaches. The authors, from such leading institutions as the US National Labs and from companies such as Panasonic and Sanyo, present a balanced view on battery research and large-scale applications. They follow a distinctly materials-oriented route through the entire field of battery research, thus allowing readers to quickly find the information on the particular materials system relevant to their research.

Cursor Mundi Springer

The book presents the current state and good practices of national forest inventories in monitoring wood resources and demonstrates pathways for harmonisation and improved common reporting. Beyond a general overview over availability and use of wood resources in different countries, it provides a unique collection of original contributions from national forest inventory

experts with in-depth descriptions of current NFI methods in assessing wood availability and wood use in European countries, and selected countries from America and Asia. The main topics are national definitions and improvements in common reporting of forests available for wood supply, stem quality and assortments, estimation of change including growth and drain, and tree resources outside forest land. The book is a must-have for everyone who is contributing to national forest inventories either methodologically or operatively, for people who want or need to understand national forest inventory provided data and information on the availability of wood resources. By providing profound knowledge it is a valuable basis for scientists involved in scenario modelling and analysing effects of climate change, as well as individuals in private organisations and public administrations promoting the sustainable use of natural resources and the potential of green economy.

Proceedings of the Sixth World Congress on Engineering Asset Management Springer Science & Business Media

Many technical books about plastics are too theoretical and difficult to read. The intention of this book is to offer something completely different: it is easy to read with many examples taken from everyday life. It is suitable for readers at secondary school and university levels, and can be used for training activities in industry as well as for self-studies. Included are over 600 color images to illustrate the wide variety of plastics and process workflows used today. The book also contains a number of computer-based tools that can be downloaded from the author's website. With comprehensive coverage, this is probably the most versatile plastics handbook ever written! New in the second edition are much-expanded content (new chapter) on extrusion, new color figures, a new layout, and corrections throughout. A bonus download of working Excel tools is provided to supplement the book content.

International Plastics Handbook University of Chicago Press
 Numerous studies report that ultraviolet (UV) radiation is harmful to living organisms and detrimental to human health. Growing concerns regarding the increased levels of UV-B radiation that reach the earth's surface have led to the development of ground- and space-based measurement programs. Further study is needed on the measurement, modeling, and effects of UV radiation. The chapters of this book describe the research conducted across the globe over the past three decades in the areas of: (1) current and predicted levels of UV radiation and its associated impact on ecosystems and human health, as well as economic and social implications; (2) new developments in UV instrumentation, advances in calibration (ground- and satellite-based), measurement methods, modeling efforts, and their applications; and (3) the effects of global climate change on UV

radiation. Dr. Wei Gao is a Senior Research Scientist and the Director of the USDA UV-B Monitoring and Research Program, Natural Resource Ecology Laboratory, Colorado State University. Dr. Gao is a SPIE fellow and serves as the Editor-in-Chief for the Journal of Applied Remote Sensing. Dr. Daniel L. Schmoltdt is the National Program Leader for instrumentation and sensors at the National Institute of Food and Agriculture (NIFA) of the U.S. Department of Agriculture. Dr. Schmoltdt served as joint Editor-in-Chief of the journal, Computers & Electronics in Agriculture, from 1997 to 2004. Dr. James R. Slusser retired in 2007 from the USDA UV-B Monitoring and Research Program at Colorado State University. He was active in the Society of Photo-Optical Instrumentation Engineers, the American Geophysical Union, and the American Meteorological Society. Dr. Slusser is currently pursuing his interests in solar energy and atmospheric transmission.

Vindolanda John Wiley & Sons

We are only now beginning to understand the climatic impact of the remarkable events that are now occurring in subarctic waters. Researchers, however, have yet to agree upon a predictive model that links change in our northern seas to climate. This volume brings together the body of evidence needed to develop climate models that quantify the ocean exchanges through subarctic seas, measure their variability, and gauge their impact on climate.

Sustainable Agriculture Reviews Princeton University Press
 With focus on the practical use of modern biotechnology for environmental sustainability, this book provides a thoughtful overview of molecular aspects of environmental studies to create a new awareness of fundamental biological processes and sustainable ecological concerns. It covers the latest research by prominent scientists in modern biology and delineates recent and prospective applications in the sub-areas of environmental biotechnology with special focus on the biodegradation of toxic pollutants, bioremediation of contaminated environments, and bioconversion of organic wastes toward a green economy and sustainable future.

The Grasping Hand Walter de Gruyter GmbH & Co KG

For more than a century, microscopy has been a centerpiece of extraordinary discoveries in biology. Along the way, remarkable imaging tools have been developed allowing scientists to dissect the complexity of cellular processes at the nano length molecular scales. Nanoimaging: Methods and Protocols presents a diverse collection of microscopy techniques and methodologies that provides guidance to successfully image cellular molecular complexes at nanometer spatial resolution. The book's four parts cover: (1) light microscopy techniques with a special emphasis on methods that go beyond the classic diffraction-limited imaging;

(2) electron microscopy techniques for high-resolution imaging of molecules, cells and tissues, in both two and three dimensions; (3) scanning probe microscopy techniques for imaging and probing macromolecular complexes and membrane surface topography; and (4) complementary techniques on correlative microscopy, soft x-ray tomography and secondary ion mass spectrometry imaging. Written in the successful format of the Methods in Molecular Biology™ series, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step protocols, and notes on troubleshooting and avoiding known pitfalls. Authoritative and accessible, *Nanoimaging: Methods and Protocols* highlights many of the most exciting possibilities in microscopy for the investigation of biological structures at the nano length molecular scales.

CRC Press

The Bering Sea, which lies between the United States and Russia, is one of the most productive ecosystems in the world and has prolific fishing grounds. Yet there have been significant unexplained population fluctuations in marine mammals and birds in the region. The book examines the Bering Sea ecosystem's dynamics and the relationship between man and the ecosystem, in order to identify potential reasons for the population fluctuations as well as identify ways the Sea's living resources can be better managed by government.

Volume 17 CRC Press

This proceeding is a compilation of selected papers from the 8th International Workshop of Advanced Manufacturing and Automation (IWAMA 2018), held in Changzhou, China on September 25 - 26, 2018. Most of the topics are focusing on novel techniques for manufacturing and automation in Industry 4.0 and smart factory. These contributions are vital for maintaining and improving economic development and quality of life. The proceeding will assist academic researchers and industrial engineers to implement the concepts and theories of Industry 4.0 in industrial practice, in order to effectively respond to the challenges posed by the 4th industrial revolution and smart factory.

Detroit Suburban West and Downriver Area Telephone Directories Hassell Street Press

This book explores the pressing topic of dark trading. Following new EU legislation regulating financial markets (MiFID II and MiFIR), it traces the development of off-market securities trading ("dark trading"), analyzes economic studies of this development, and positions the resulting regulatory framework of the EU over against that of the US. The study closes with proposals for reform that provide new impetus for further academic discussion.

Engineering Asset Management and Infrastructure Sustainability Brill Academic Pub

This work focuses on the factors critical to successful injection moulding, including knowledge of plastic materials and how they melt, the importance of mould design, the role of the screw, and the correct use of the controls of an injection moulding machine. It seeks to provide operating personnel with a clear understanding of the basics of injection moulding.

Christophori Helvici ... Theatrum historicum et chronologicum, aequalibus denariis, quinquagenariis & centenariis intervallis; ... digestum, & Nunc de novo recognitum, plurimis in locis auctum, emendatum, & ... continuatum à Johanne-Iusto Winkelmanno, .. Springer Science & Business Media

Research indicates that most neurodegenerative diseases,

systemic amyloidoses and many others, arise from the misfolding and aggregation of an underlying protein. This is the first book to discuss significant achievements in protein structure-function relationships in biochemistry, molecular biology and molecular medicine. The authors summarize recent progress in the understanding of the relationships between protein misfolding, aggregation and development of protein deposition disorders.

Biodegradation, Bioremediation, and Bioconversion of Xenobiotics for Sustainable Development Apress

Additive manufacturing (AM) methods have grown and evolved rapidly in recent years. AM for polymers is an exciting field and has great potential in transformative and translational research in many fields, such as biomedical, aerospace, and even electronics. Current methods for polymer AM include material extrusion, material jetting, vat polymerisation, and powder bed fusion. With the promise of more applications, detailed understanding of AM—from the processability of the feedstock to the relationship between the process-structure-properties of AM parts—has become more critical. More research work is needed in material development to widen the choice of materials for polymer additive manufacturing. Modelling and simulations of the process will allow the prediction of microstructures and mechanical properties of the fabricated parts while complementing the understanding of the physical phenomena that occurs during the AM processes. In this book, state-of-the-art reviews and current research are collated, which focus on the process-structure-properties relationships in polymer additive manufacturing.

Aussenhandel nach Waren und Ländern, Spezialhandel Springer

This book addresses the rapidly developing class of solar cell materials and designed to provide much needed information on the fundamental principles of these materials, together with how these are employed in photovoltaic applications. A special emphasis has been given for the space applications through study of radiation tolerant solar cells. This book presents a comprehensive research outlining progress on the synthesis, fabrication and application of solar cells from fundamental to device technology and is helpful for graduate students, researchers, and technologists engaged in research and development of materials.

Assessment of the 18th, 19th, and 20th Dynasty Tombs Springer Science & Business Media

The Economic Geology of Iran is a complete and comprehensive book about mineral deposits, energy and water resources of Iran. Dr. Mansour Ghorbani has travelled to each of the huge variety of locations that feature the resources covered, personally verifying the details of them all. The book starts by describing the geography and physiography of Iran as well as its various climatic regions and the diverse corresponding vegetation. Then the book gives an excellent overview of the geology of the country, followed by the history of mining in Iran up to now. The author describes also the metallogenic and mineralization phases of Iran, its mineral zones and belts, and, more generally, the distribution of mineral deposits in the country. Dr. Ghorbani gives us also an analysis of the position of Iran in terms of global mineral resources, as well as the role that the country's mineral, energy and natural resources play in its overall economy. The book finishes with also provides a complete list of Iranian mineral deposits. This book is a perfect source of information for all

students and researchers in the field of geo-science at the university level but also for mining and oil companies that would like to work, invest and get involved in such businesses in Iran.

User's Guide to Plastic John Wiley & Sons

This book discusses methods for the assessment of energetic compounds through heat of detonation, detonation pressure, velocity and temperature, Gurney energy and power. The authors focus on the detonation pressure and detonation velocity of non-ideal aluminized energetic compounds. This 2nd Edition includes an updated and improved presentation of simple, reliable methods for the design, synthesis and development of novel energetic compounds.

Methods for Prediction of their Performance Springer

Now the subject of a feature film that the New York Times calls "spellbinding" How does life work? How does nature produce the right numbers of zebras and lions on the African savanna, or fish in the ocean? How do our bodies produce the right numbers of cells in our organs and bloodstream? In *The Serengeti Rules*, award-winning biologist and author Sean Carroll tells the stories of the pioneering scientists who sought the answers to such simple yet profoundly important questions, and shows how their discoveries matter for our health and the health of the planet we depend upon. One of the most important revelations about the natural world is that everything is regulated—there are rules that regulate the amount of every molecule in our bodies and rules that govern the numbers of every animal and plant in the wild. And the most surprising revelation about the rules that regulate life at such different scales is that they are remarkably similar—there is a common underlying logic of life. Carroll recounts how our deep knowledge of the rules and logic of the human body has spurred the advent of revolutionary life-saving medicines, and makes the compelling case that it is now time to use the Serengeti Rules to heal our ailing planet. A bold and inspiring synthesis by one of our most accomplished biologists and gifted storytellers, *The Serengeti Rules* is the first book to illuminate how life works at vastly different scales. Read it and you will never look at the world the same way again.

33rd Annual Report Walter de Gruyter GmbH & Co KG

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The Quest to Discover How Life Works and Why It Matters - With a new Q&A with the author Springer Science & Business Media

We live in an age of addiction, from compulsive gaming and shopping to binge eating and opioid abuse. What can we do to resist temptations that insidiously and deliberately rewire our brains? Nothing, David Courtwright says, unless we understand the global enterprises whose "limbic capitalism" creates and caters to our bad habits.

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