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First Annual Symposium, Efficient Utilization of Energy in Residential and Commercial Buildings- 1984

Dairy Industries International- 1986-07

Technological Developments in Education and Automation-Magued Iskander 2010-01-30 Technological Developments in Education and Automation includes set of rigorously reviewed world-class manuscripts dealing with the increasing role of technology in daily lives including education and industrial automation Technological Developments in Education and Automation contains papers presented at the International Conference on Industrial Electronics, Technology & Automation and the International Conference on Engineering Education, Instructional Technology, Assessment, and E-learning which were part of the International Joint Conferences on Computer, Information and Systems Sciences and Engineering

Cryocoolers-Milind D. Atrey 2020-02-24 This book serves as an introduction to cryocooler technology and describes the principle applications of cryocoolers across a broad range of fields. It covers the specific requirements of these applications, and describes how the advantages and disadvantages of different cryocooler systems are taken into consideration. For example, Stirling coolers tend to be used only in space applications because of their high coefficient of performance, low weight and proven reliability, whilst Gifford-McMahon coolers are used for ground applications, such as in cryopumps and MRI shield cooling applications. Joule-Thomson cryocoolers are used in missile technology because of the fast cool down requirements. The cryocooler field is fast developing and the number of applications are growing because of the increasing costs of the cryogens such as Helium and Neon. The first chapter of the book introduces the different types of cryocoolers, their classification, working principles, and their design aspects, and briefly mentions some of the applications of these systems. This introductory chapter is followed by a number of contributions from prominent international researchers, each describing a specific field of application, the cooling requirements and the cryocooler systems employed. These areas of application include gas liquefaction, space technology, medical science, dilution refrigerators, missile systems, and physics research including particle accelerators. Each chapter describes the cooling requirements based on the end use, the approximate cooling load calculations, the criteria for cryocooler selection, the arrangement for cryocooler placement, the connection of the cooler to the object to be cooled, and includes genuine case studies. Intended primarily for researchers working on cryocoolers, the book will also serve as an introduction to cryocooler technology for students, and a useful reference for those using cryocooler systems in any area of application.

Multiscale Materials Modeling for Nanomechanics-Christopher R. Weinberger 2016-08-30 This book presents a unique combination of chapters that together provide a practical introduction to multiscale modeling applied to nanoscale materials mechanics. The goal of this book is to present a balanced treatment of both the theory of the methodology, as well as some practical aspects of conducting the simulations and models. The first half of the book covers some fundamental modeling and simulation techniques ranging from ab-initio methods to the continuum scale. Included in this set of methods are several different concurrent multiscale methods for bridging time and length scales applicable to mechanics at the nanoscale regime. The second half of the book presents a range of case studies from a varied selection of research groups focusing either on a the application of multiscale modeling to a specific nanomaterial, or novel analysis techniques aimed at exploring nanomechanics. Readers are also directed to helpful sites and other resources throughout the book where the simulation codes and methodologies discussed herein can be accessed. Emphasis on the practicality of the detailed techniques is especially felt in the latter half of the book, which is dedicated to specific examples to study nanomechanics and multiscale materials behavior. An instructive avenue for learning how to effectively apply these simulation tools to solve nanomechanics problems is to study previous endeavors. Therefore, each chapter is written by a unique team of experts who have used multiscale materials modeling to solve a practical nanomechanics problem. These chapters provide an extensive picture of the multiscale materials landscape from problem statement through the final results and outlook, providing readers with a roadmap for incorporating these techniques into their own research.

A Reader's Guide to Dag Hammarskjöld's Waymarks-Bernhard Erling 2002

Handbook of Bioinspired Algorithms and Applications-Stephan Olariu 2005-09-29 The mystique of biologically inspired (or bioinspired) paradigms is their ability to describe and solve complex relationships from intrinsically very simple initial conditions and with little or no knowledge of the search space. Edited by two prominent, well-respected researchers, the Handbook of Bioinspired Algorithms and Applications reveals the

The Inductor Handbook-Cletus J. Kaiser 1996 This book provides practical guidance and application information when using inductors in electronic and electrical circuit design. This easy-to-use book covers all Ferrites (pot cores, toroids, beads, chokes, slugs, etc.) and Transformers. This book also has a very comprehensive Glossary and Index. The selection guidelines and the Symbols and Equation section have the answers to all of your daily application questions. This book is one is a series of component handbooks.

Handbook of Polymers for Pharmaceutical Technologies, Processing and Applications-Vijay Kumar Thakur 2015-08-04 Polymers are one of the most fascinating materials of the present era finding their applications in almost every aspects of life. Polymers are either directly available in nature or are chemically synthesized and used depending upon the targeted applications. Advances in polymer science and the introduction of new polymers have resulted in the significant development of polymers with unique properties. Different kinds of polymers have been and will be one of the key in several applications in many of the advanced pharmaceutical research being carried out over the globe. This 4-partset of books contains precisely referenced chapters, emphasizing different kinds of polymers with basic fundamentals and practicality for application in diverse pharmaceutical technologies. The volumes aim at explaining basics of polymers based materials from different resources and their chemistry along with practical applications which present a future direction in the pharmaceutical industry. Each volume offer deep insight into the subject being treated. Volume 1: Structure and Chemistry Volume 2: Processing and Applications Volume 3: Biodegradable Polymers Volume 4: Bioactive and Compatible Synthetic/Hybrid Polymers

Markings-Dag Hammarskjöld 1997-01-01

Lifetime Spectroscopy-Stefan Rein 2006-03-30 Lifetime spectroscopy is one of the most sensitive diagnostic tools for the identification and analysis of impurities in semiconductors. Since it is based on the recombination process, it provides insight into precisely those defects that are relevant to semiconductor devices such as solar cells. This book introduces a transparent modeling procedure that allows a detailed theoretical evaluation of the spectroscopic potential of the different lifetime spectroscopic techniques. The various theoretical predictions are verified experimentally with the context of a comprehensive study on different metal impurities. The quality and consistency of the spectroscopic results, as explained here, confirms the excellent performance of lifetime spectroscopy.

The Sugar Pine Railway-Pamela A. Conners 1997

Complex Systems — Operational Approaches in Neurobiology, Physics, and Computers-Hermann Haken 2012-12-06 A great deal of the success of science has rested on its specific methods. One of which has been to start with the study of simple phenomena such as that of falling bodies, or to decompose systems into parts with well-defined properties simpler than those of the total system. In our time there is a growing awareness that in many cases of great practical or scientific interest, such as economics or the human brain, we have to deal with truly complex systems which cannot be decomposed into their parts without losing crucial properties of the total system. In addition, complex systems have many facets and can be looked at from many points of view. Whenever a complicated problem arises, some scientists or other people are ready to invent lots of beautiful words, or to quote Goethe "denn immer wo Begriffe fehlen, dort stellt ein Wort zur rechten Zeit sich ein" ("whenever concepts are lacking, a word appears at the right time"). Quite often such a procedure gives not only the layman but also scientists working in fields different from that of the inventor of these new words the impression that this problem has been solved, and I am occasionally shocked to see how influential this kind of "linguistics" has become.

Sorghum-Zuo-Yu Zhao 2019-02-02 This book details sorghum breeding technologies, grain compounds, nutrition and digestibility, biotechnology methods, broad renewable applications and an economic study. Chapters are divided into five review chapters, five case study chapters, and nine protocol chapters providing comprehensive reviews, new study results or state-of-the-art protocols. 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 tips on troubleshooting and avoiding known pitfalls. Authoritative and cutting-edge, *Sorghum: Methods and Protocols* aims to provide useful information and tools to an array of readers looking to research and utilize sorghum.

Pictures of People-Pamela Allara 2000-03 A vibrant chronicle of the life and work of a prolific painter and bohemian eccentric.

Ion Exchange and Solvent Extraction-Yitzhak Marcus 2001-10-12 "Contains a complete manual with procedures for the implementation and scaling-up of industrial extraction processes. Discusses computer-aided molecular design. Includes examples of interactive, combinatorial, construct-and-test, and mathematical programming."

Trafficking in Women 1924-1926-United Nations Publications 2017 This book provides a transcription of the reports written by undercover agent Paul Kinsie for the League of Nations Special Body of Experts on Traffic in Women and Children in the mid-1920s. Between 1924 and 1926, a team travelled to more than a hundred cities in Europe, the Americas and the Mediterranean area to interview individuals involved in the regulation, repression, medical control, organization and practice of the sex trade. American undercover agents were included on the team to infiltrate the so-called 'underworld' and obtain 'facts' about the traffic. Among these, Kinsie was the most prolific. He visited more than forty cities and produced hundreds of reports in which his contacts with prostitutes, brothel owners, madams, pimps and procurers are described in detail. For a proper contextualization of the reports, scholars from around the world were asked to provide short introductions to the situation with regard to prostitution in each city that was visited. The book offers a unique source of information which is of great ethnographic value for people interested in the history of human trafficking and prostitution.

Towards the E-Society-Beat Schmid 2006-04-11 I3E 2001 is the first in a series of conferences on e-commerce, e-business, and- government organised by the three IFIP committees TC6, TC8, and TC11. It provides a forum, where users, engineers, and scientists from academia, industry, and government can present their latest findings in e-commerce, e-business, and- government applications and the underlying technology to support those applications. The conference comprises a main track and mini tracks dedicated to special topics. The papers presented in the main track were rigorously refereed and selected by the International Programme Committee of the conference. Thematically they were grouped in the following sessions: - Sessions on security and trust, comprising nine papers referring to both trust and security in general as well as presenting specific concepts for enhancing trust in the digital society. - Session on inter-organisational transactions, covering papers related to auditing of inter-organizational trade procedures, cross-organizational workflow and transactions in Business to Business platforms. - Session on virtual enterprises, encompassing papers describing innovative approaches for creating virtual enterprises as well as describing examples of virtual enterprises in specific industries. - Session on online communities containing three papers, which provide case studies of specific online communities and various concepts on how companies can build and harness the potential of online communities. - Sessions on strategies and business models with papers describing specific business models as well as general overviews of specific approaches for E- Strategy formulation.

The Cathedral and Others Poems-Charles Scribner's Sons 2019-03-15 This work has been selected by scholars as being culturally important, and is part of the knowledge base of civilization as we know it. This work was reproduced from the original artifact, and remains as true to the original work as possible.

Therefore, you will see the original copyright references, library stamps (as most of these works have been housed in our most important libraries around the world), and other notations in the work. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. As a reproduction of a historical artifact, this work may contain missing or blurred pages, poor pictures, errant marks, etc. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

Physics and Geometry of Disorder-Aleksē L'vovich Ėfros 1986

The Impact of Civilisation on the Biology of Man-Australian Academy of Science 1970 Papers from a symposium held on 11-12 September 1968 at Canberra, sponsored by the Australian Academy of Science.

Colloids in Cosmetics and Personal Care, Volume 4-Tharwat F. Tadros 2008-03-31 The first modern approach to relate fundamental research to the applied science of colloids, this series bridges academic research and industrial applications, thus providing the information vital to both. Written by the very best scientists in their respective disciplines, the five volumes are edited by an internationally recognized expert on this topic. This volume describes the role of colloids in cosmetics and personal care, highlighting the importance of fundamental research in practical applications. Of interest to electrochemists, physical and surface chemists, materials scientists, and physicists.

Ion Exchange and Solvent Extraction-Jacob A. Marinsky 1966

Intelligent Research Design-Bob Hancké 2009-07-16 This book offers advice to beginning doctoral researchers and advanced graduate students on how to embark on their research. Based on a decade of teaching early-stage researchers in the social sciences at the LSE and other universities, and written with the central problems that starting researchers face in mind, it guides them through the process of thinking about the links between theory, cases and data. This lively book, which is deliberately kept jargon-free and adopts a hands-on approach to research design, addresses the problems that research students face - or ignore, often at their peril - in the course of their first few years. Its central message is that research is a complex and iterative process in which researchers construct every relevant part of their project with one goal in mind: make a convincing argument. The Appendix gives tips on presenting and discussing papers, and on crafting research proposals.

The Narayanpur Incident-Shashi Deshpande 2015-08-01 8 August 1942. As Gandiji and prominent leaders are put in jail, Babu and Manju suddenly find themselves a part of the larger protests--their schools close down and their father is put behind bars. Their daring brother Mohan goes underground and the rest of the family moves to Narayanpur, a sleepy little village seemingly untouched by the turbulence in the country. But Narayanpur is seething within and it all comes to a head when a group of children dare to confront the police.

The Antibody Enigma-Thomas Kindt 2012-12-06 *The Antibody Enigma* is a somewhat personal view of the antibody diversity question from two investigators who have spent the past 18 years trying to penetrate the enigma. It is not and was not meant to be an all-embracing comprehensively referenced review of the subject of antibody diversity. Because of the subjective viewpoint, there are undoubtedly omissions of data that others consider to be seminal, and if we have offended anyone by omitting their own contribution we sin cerely apologize. We have lived with "The Enigma" on and off for the past two years. It has been both hard work and good fun but, above all, it has been a learning experience. There were several difficult decisions to make in putting together the final text, but perhaps the most difficult was deciding upon a stopping point. The field of antibody diversity is presently enjoying an unparalleled expansion of information, and because of this it was very tempting to await further developments in hopes of tying up as many loose ends as possible. This was decided against for several reasons; the major factor was that the project was growing burdensome for both of us. From a more objective point of view this appears to be a reasonable time to stop our exposition.

Computer Design for New Drugs and Materials-Kholmurzo T. Kholmurodov 2017 In this book, chapters from multiple experts have been collected that demonstrate the efficient use of the computer molecular dynamics (MD) simulation methods for the studying of nanoscale phenomena in materials and life sciences. This volume contains the Proceedings of the International Symposium KSCMBS-2016 Khujand Symposium on Computational Materials and Biological Sciences (10th Japan-Russia Workshop on Molecular Simulation Studies in Materials and Biological Sciences), which was organized by the Frank Laboratory of Neutron Physics (FLNP), Joint Institute for Nuclear Research (JINR), Dubna, Russian Federation and Khujand State University named after Academician B Gafurov, The Ministry of Education and Science of The Republic of Tajikistan (HGU, RT) from 24-28 September 2016 in Khujand, Tajikistan. It is remarkable that the first chapter opening this book is contributed by C Arnarez and S J Marrink, representatives of the same faculty from the University of Groningen in the Netherlands, where Professor Bernard L Feringa won the 2016 Nobel Prize in Chemistry "for the design and synthesis of molecular machines" (nanomotors and nanorobots), which are the actual topics of the current KSCMBS-2016 Japan-Russia-Tajikistan International Symposium. In the first chapter, C Arnarez and S J Marrink have developed a computational microscopy approach based on a coarse-grained molecular dynamics simulation to study the mitochondrial membranes. The developed method is capable of simulating the cell membranes and efficiently capturing the interplay between the lipids and proteins at a spatio-temporal resolution, which is unmatched by other methods. The other interesting chapters of the book provide very broad and useful information to the readers by demonstrating the clear examples of how modern state-of-the-art molecular dynamics modelling can provide a molecular level of insight into the organisation and dynamics of the atomic/molecular processes in nanosystems, cell membranes, lipids, and proteins through new materials, exploring and new drug design.

The Minimal Cell-Pier Luigi Luisi 2010-11-01 In the last ten years there has been a considerable increase of interest on the notion of the minimal cell. With this term we usually mean a cell-like structure containing the minimal and sufficient number of components to be defined as alive, or at least capable of displaying some of the fundamental functions of a living cell. In fact, when we look at extant living cells we realize that thousands of molecules are organized spatially and functionally in order to realize what we call cellular life. This fact elicits the question whether such huge complexity is a necessary condition for life, or a

simpler molecular system can also be defined as alive. Obviously, the concept of minimal cell encompasses entire families of cells, from totally synthetic cells, to semi-synthetic ones, to primitive cell models, to simple biomimetic cellular systems. Typically, in the experimental approach to the construction of minimal the main ingredient is the compartment. Lipid vesicles (liposomes) are used to host simple and complex molecular transformations, from single or multiple enzymic reactions, to polymerase chain reactions, to gene expression. Today this research is seen as part of the broader scenario of synthetic biology but it is rooted in origins of life studies, because the construction of a minimal cell might provide biophysical insights into the origins of primitive cells, and the emergence of life on earth. The volume provides an overview of physical, biochemical and functional studies on minimal cells, with emphasis to experimental approaches. 15 International experts report on their innovative contributions to the construction of minimal cells.

Taurine in Nutrition and Neurology-Ryan J. Huxtable 2013-04-09

Women and World War 1-Dorothy Goldman 1993-01-15 The literary canon of World War 1 - celebrated for realising the experience of an entire generation - ignores writing by women. To the sorrows that war has always brought them - the loss of husbands, lovers, brothers - the Great War added a revolutionary knowledge. And all the time they wrote - letters, poetry, novels, short stories, memoirs. This volume of mutually reflective essays brings this writing into literary focus and ensures that women's recent history and literature are neither forgotten nor undervalued.

The Tribology Handbook-Michael J Neale 1995-12-15 The renowned reference work is a practical guide to the selection and design of the components of machines and to their lubrication. It has been completely revised for this second edition by leading experts in the area.

CCNA-Todd Lammle 2001-11 This comprehensive study guide includes a fully functional router simulator with lab exercises, four bonus exams, and over 300 flashcards.

Current Research in Pharmaceutical Technology-Sabine Globig 2011-12-15 Pharmaceutical technology deals with the discovery, production, processing, and safe and effective delivery of medications to patients. Technologies involved include computer modeling for research, bioengineering for research instrumentation, processes and methods for increasing production, and computing technology and biosystematics for the management and analysis of data. This new book covers a wide range of important topics on today's pharmaceutical technology, such as in vitro drug release and controlled drug delivery, the use of nanotechnology in pharmaceuticals, quantum dot imaging, assessment and efficacy of pharmaceuticals, and much more.

Colloids in Paints-Tharwat F. Tadros 2011-08-04 The first modern approach to relate fundamental research to the applied science of colloids, this series bridges academic research and practical applications, thus providing the information vital to both. Written by the very best scientists in their respective disciplines, this volume describes the role of colloids in paints, highlighting the importance of fundamental research in industrial applications. For surface, polymer and physicochemists, materials scientists, and chemical engineers.

Wireless Sensor Networks and Ecological Monitoring-Subhas C Mukhopadhyay 2013-02-11 This book presents the state of the art technologies and solutions to tackle the critical challenges faced by the building and development of the WSN and ecological monitoring system but also potential impact on society at social, medical and technological level. This book is dedicated to Sensing systems for Sensors, Wireless Sensor Networks and Ecological Monitoring. The book aims at Master and PhD degree students, researchers, practitioners, especially WSN engineers involved with ecological monitoring. The book will provide an opportunity of a dedicated and a deep approach in order to improve their knowledge in this specific field.

Emergent Process Methods for High-Technology Ceramics-Robert F. Davis 2012-12-06 This volume constitutes the Proceedings of the November 8-10, 1982 Conference on EMERGENT PROCESS METHODS FOR HIGH TECHNOLOGY CERAMICS, held at North Carolina State University in Raleigh. It was the nineteenth in a series of "University Conferences on Ceramic Science" initiated in 1964 by four institutions of which North Carolina State University is a charter member, along with the University of California at Berkeley, Notre Dame University, and the New York State College of Ceramics at Alfred University. More recently, ceramic oriented faculty in departments at the Pennsylvania State University and Case-Western Reserve University have joined the four initial institutions as permanent members of the consortium. These research oriented conferences, each uniquely concerned with a timely ceramic theme, have been well attended by audiences which typically were both international and interdisciplinary in character; their published Proceedings have been well received and are frequently cited. This three day conference addressed the fundamental scientific background as well as the technological state-of-the-art of several novel methods which are beginning to influence present and future directions for non-traditional ceramic processing, thus affecting many of the advanced ceramic materials needed for a wide variety of research and industrial applications. The number, the importance and the application of new ceramic processing techniques have expanded considerably during the last ten years.

Advances in Materials Characterization-David R. Rossington 2012-12-06 The characterization of materials and phenomena has historically been the principal limitation to the development in each area of science. Once what we are observing is well defined, a theoretical analysis rapidly follows. Modern theories of chemical bonding did not evolve until the methods of analytical chemistry had progressed to a point where the bulk stoichiometry of chemical compounds was firmly established. The great progress made during this century in understanding chemistry has followed directly from the development of an analytical chemistry based on the Dalton assumption of multiple proportions. It has only become apparent in recent years that the extension of our understanding of materials hinges on their non-stoichiometric nature. The world of non-Daltonian chemistry is very poorly understood at present because of our lack of ability to precisely characterize it. The emergence of materials science has only just occurred with our recognition of effects, which have been thought previously to be minor variations from ideality, as the principal phenomena controlling properties. The next step in the historical evolution of materials science must be the development of tools to characterize the often subtle phenomena which determine properties of materials. The various discussions of instrumental techniques presented in this book are excellent summaries for the state-of-the-art of materials characterization at this rather critical stage of materials science. The application of the tools described here, and those yet to be developed, holds the key to the development of this infant into a mature science.

Liquid Crystalline Order in Polymers-Alexandre Blumstein 2012-12-02 Liquid Crystalline Order in Polymers examines the topic of liquid crystalline order in systems containing rigid synthetic macromolecular chains. Each chapter of the book provides a review of one important area of the field. Chapter 1 discusses scattering in polymer systems with liquid crystalline order. It also introduces the field of liquid crystals. Chapter 2 treats the origin of liquid crystalline order in macromolecules by describing the in-depth study of conformation of such macromolecules in their unassociated state. The chapters that follow describe successively the liquid crystalline order in polymers with mesogenic side groups and rigid backbones, in polypeptides, and in block copolymers. Chapter 7 discusses the rheology of such systems. The last two chapters examine liquid crystalline order in biological materials and mesomorphic order in the realm of polymers with inorganic backbones. This book is intended to provide the polymer scientist, the materials scientist, and the biologist with a valuable source of information.

Human Responses to Environmental Odors-Amos Turk 1974-01-01 Human Responses to Environmental Odors presents some of the approaches to the study of the human olfactory response. This book contains 11 chapters that describe the complexity in human olfaction. This text deals first with the sensory and physicochemical aspects of odor. These topics are followed by discussions on the sampling, transport, dispersal, odor intensities and preferences, and psychophysical scaling. The discussion then shifts to the applications of some previously slighted fundamentals, such as vapor pressure phenomena and the chemical stability of odorants in the atmosphere. Other chapters are devoted to community odor problems and annoyance reactions, combustion odors, and laser Raman spectroscopy. These chapters include odor measurement and control. This book is of great value to flavor scientists, chemists, physiologists, and behavioral scientists.

Japanese Naval and Merchant Shipping Losses During World War II by All Causes-United States. Joint Army-Navy Assessment Committee 1947

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