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Bingyun Li, Thomas Webster

Functional Gradient Materials and Surface Layers Prepared by Fine Particles Technology Marie-Isabelle Baraton, Irina V. Uvarova, 2012-12-06 The NATO Advanced Study Institute on Functional Gradient Materials and Surface Layers Prepared by Fine Particles Technology was held in Kiev (Ukraine) on June 18- 28, 2000 where more than 90 participants, ranging from Ph.D. students to experienced senior scientists, met and exchanged ideas. This meeting was aimed at stimulating the research work across traditional disciplinary lines by bringing together scientists from diverse research areas related to functional gradient materials and surface layers. It also intended to give opportunities for initiating collaborative works between scientists from NATO and Partner countries and to trigger fruitful and exciting discussions between experienced and young researchers. In this respect, this NATO-ASI has been quite successful. The term of functional gradient materials which originates from Japan in the 1980's describes a class of engineering materials with spatially inhomogeneous microstructures and properties (MRS Bulletin, 1995, 20, N°1). These materials can be successfully utilized in various applications like electronic devices, optical films, anti wear and anti-corrosion coatings, thermal barrier coatings, biomaterials, to name only a few. Although these functional gradient materials are not fundamentally new, the use of nanoparticles in their fabrication and in surface layers as well has greatly improved their performances to meet challenging requirements for industrial applications.

12th International Conference on Finance & Banking, 2009

Sustainable Design and Manufacturing 2019 Peter Ball, Luisa Huaccho Huatuco, Robert J. Howlett, Rossi Setchi, 2019-06-27 This volume consists of 52 peer-reviewed papers, presented at the International Conference on Sustainable Design and Manufacturing (SDM-19) held in Budapest, Hungary in July 2019. Leading-edge research into sustainable design and manufacturing aims to enable the manufacturing industry to grow by adopting more advanced technologies, and at the same time improve its sustainability by reducing its environmental impact. The topic includes the sustainable design of products and services; the sustainable manufacturing of all products; energy efficiency in manufacturing; innovation for eco-design; circular economy; industry 4.0; industrial metabolism; automotive and transportation systems. Application areas are wide and varied. The book will provide an excellent overview of the latest developments in the Sustainable Design and Manufacturing Area. High Tech with Low Risk John D. Trudel, 1990

Electrochemical Supercapacitors for Energy Storage and Delivery Aiping Yu, Victor Chabot, Jiujun Zhang, 2017-12-19 Although recognized as an important component of all energy storage and conversion technologies, electrochemical supercapacitators (ES) still face development challenges in order to reach their full potential. A thorough examination of development in the technology during the past decade, Electrochemical Supercapacitors for Energy Storage and Delivery: Fundamentals and Applications provides a comprehensive introduction to the ES from technical and practical aspects and crystallization of the technology, detailing the basics of ES as well as its components and characterization techniques. The book illuminates the practical aspects of understanding and applying the technology within the industry and provides sufficient technical detail of newer materials being developed by experts in the field which may surface in the future. The book discusses the technical challenges and the practical limitations and their associated parameters in ES technology. It also covers the structure and options for device packaging and materials choices such as electrode materials, electrolyte, current collector, and sealants based on comparison of available data. Supplying an in depth understanding of the components, design, and characterization of electrochemical supercapacitors, the book has wide-ranging appeal to industry experts and those new to the field. It can be used as a reference to apply to current work and a resource to foster ideas for new devices that will further the technology as it becomes a larger part of main stream energy storage. **Structural DNA Nanotechnology** Nadrian C. Seeman, 2015 Written by the founder of the field, this is a comprehensive and accessible introduction to structural DNA

Structural DNA Nanotechnology Nadrian C. Seeman, 2015 Written by the founder of the field, this is a comprehensive and accessible nanotechnology.

Advances and Applications Through Fungal Nanobiotechnology Ram Prasad,2016-11-08 Fungal nanobiotechnology has emerged as one of the key technologies, and an ecofriendly, as a source of food and harnessed to ferment and preserve foods and beverages, as well as applications in human health (antibiotics, anti-cholesterol statins, and immunosuppressive agents), while industry has used fungi for large-scale production of enzymes, acids, biosurfactants, and to manage fungal disease in crops and pest control. With the harnessing of nanotechnology, fungi have grown increasingly important by providing a greener alternative to chemically synthesized nanoparticles.

PET Chemistry P.A. Schubiger,L. Lehmann,M. Friebe,2007-01-19 Personalized medicine employing patient-based tailor-made therapeutic drugs is taking over treatment paradigms in a variety of ?elds in oncology and the central nervous system. The success of such therapies is mainly dependent on ef?cacious therapeutic drugs and a selective imaging probe for identi?cation of potential responders as well as therapy monitoring for an early bene?t assessment. Molecular imaging (MI) is based on the selective and speci?c interaction of a molecular probe with a biological target which is visualized through nuclear, magnetic resonance, near infrared or other methods. Therefore it is the method of choice for patient selection and therapy monitoring as well as for speci?c e- point monitoring in modern drug development. PET (positron emitting tomography), a nuclear medical imaging modality, is ideally suited to produce three-dimensional images of various targets or processes. The rapidly increasing demand for highly selective probes for MI strongly pushes the development of new PET tracers and PET chemistry. 'PET chemistry' can be de?ned as the study of positron-emitting compounds regarding their synthesis, structure, composition, reactivity, nuclear properties and processes and their properties in natural and natural environments. In practice PET chemistry is strongly in?uenced by the unique properties of the radioisotopes used (e.g., half-life, che- cal reactivity, etc.) and integrates scienti?c aspects of nuclear-, organic-, inorganic- and biochemistry.

Electrochemical Supercapacitors B. E. Conway,2013-04-17 The first model for the distribution of ions near the surface of a metal electrode was devised by Helmholtz in 1874. He envisaged two parallel sheets of charges of opposite sign located one on the metal surface and the other on the solution side, a few nanometers away, exactly as in the case of a parallel plate capacitor. The rigidity of such a model was allowed for by Gouy and Chapman inde pendently, by considering that ions in solution are subject to thermal motion so that their distribution from the metal surface turns out diffuse. Stern recognized that ions in solution do not behave as point charges as in the Gouy-Chapman treatment, and let the center of the ion charges reside at some distance from the metal surface while the distribution was still governed by the Gouy-Chapman view. Finally, in 1947, D. C. Grahame transferred the knowledge of the struc ture of electrolyte solutions into the model of a metal/solution interface, by en visaging different planes of closest approach to the electrode surface depending on whether an ion is solvated or interacts directly with the solid wall. Thus, the Gouy-Chapman-Stern-Grahame model of the so-called electrical double layer was born, a model that is still qualitatively accepted, although theoreti cians have introduced a number of new parameters of which people were not aware 50 years ago.

Orthopedic Biomaterials Bingyun Li, Thomas Webster, 2018-08-17 This book covers the latest progress in the biology and manufacturing of orthopedic biomaterials, as well as key industry perspectives. Topics covered include the development of biomaterial-based medical products for orthopedic applications, anti-infection technologies for orthopedic implants, additive manufacturing of orthopedic implants, and more. This is an ideal book for graduate students, researchers and professionals working with orthopedic biomaterials and tissue engineering. This book also: Provides an industry perspective on technologies to prevent orthopedic implant related infection Thoroughly covers how to modulate innate inflammatory reactions in the application of orthopedic biomaterials Details the state-of-the-art research on 3D printed porous bone constructs

Nanotechnologies in Food Qasim Chaudhry, Laurence Castle, Richard Watkins, 2017-05-17 Nanotechnologies in Food provides an overview of the products and applications of nanotechnologies in agri-food and related sectors. Following on from the success of the first edition, this new edition has been revised and updated to bring the reader fully up to date on the emerging technological, societal, and policy and regulatory aspects in relation to nanotechnologies in food. This book contains new chapters discussing some of the aspects that have attracted a lot of debate and research in recent years, such as how the regulatory definition of 'nanomaterial' is shaping up in Europe and whether it will result in a number of exciting food additives being regarded as nanomaterials, how the new analytical challenges posed by manufactured nanoparticles in food are being addressed and whether the emerging field of nano delivery systems for food ingredients and supplements, made of food materials or other soft/degradable polymers, can raise any consumer safety concerns. The edition concludes by discussing the future trends of the technological developments in the area of nanotechnologies and potential future 'fusion' with other fields, such as biotechnology and synthetic biology. This book provides a source of much needed and up-to-date information on the products and applications of nanotechnology for the food sector - for scientists, regulators, and consumers alike. It also gives an independent, balanced, and impartial view of the potential benefits as well as risks that nanotechnology applications may bring to the food sector. Whilst providing an overview of the state-of-the-art and foreseeable applications to highlight opportunities for innovation, the book also discusses areas of uncertainty in relation to public perception of the new technological developments, and potential implications for consumer safety and current regulatory controls. The book also discusses the likely public perceptions of nanotechnologies in the light of past technological developments in the food sector, and how the new technology will possibly be regulated under the existing regulatory frameworks.

Hands-On GPU Programming with CUDA Jaegeun Han, Bharatkumar Sharma, 2019-09-27 Explore different GPU programming methods using libraries and directives, such as OpenACC, with extension to languages such as C, C++, and Python Key Features Learn parallel programming principles and practices and performance analysis in GPU computing Get to grips with distributed multi GPU programming and other approaches to GPU programming Understand how GPU acceleration in deep learning models can improve their performance Book Description Compute Unified Device Architecture (CUDA) is NVIDIA's GPU computing platform and application programming interface. It's designed to work with programming languages such as C, C++, and Python. With CUDA, you can leverage a GPU's parallel computing power for a range of high-performance computing applications in the fields of science, healthcare, and deep learning. Learn CUDA Programming will help you learn GPU parallel programming and understand its modern applications. In this book, you'll discover CUDA programming approaches for modern GPU architectures. You'll not only be guided through GPU features, tools, and APIs, you'll also learn how to analyze performance with sample parallel programming algorithms. This book will help you optimize the performance of your apps by giving insights into CUDA programming platforms with various libraries, compiler directives (OpenACC), and other languages. As you progress, you'll learn how additional computing power can be generated using multiple GPUs in a box or in multiple boxes. Finally, you'll explore how CUDA accelerates deep learning algorithms, including convolutional neural networks (CNNs) and recurrent neural networks (RNNs). By the end of this CUDA book, you'll be equipped with the skills you need to integrate the power of GPU computing in your applications. What you will learn Understand general GPU operations and programming patterns in CUDA Uncover the difference between GPU programming and CPU programming Analyze GPU application performance and implement optimization strategies Explore GPU programming, profiling, and debugging tools Grasp parallel programming algorithms and how to implement them Scale GPU-accelerated applications with multi-GPU and multi-nodes Delve into GPU programming platforms with accelerated libraries, Python, and OpenACC Gain insights into deep learning accelerators in CNNs and RNNs using GPUs Who this book is for This beginner-level book is for programmers who want to delve into parallel computing, become part of the high-performance computing community and build modern applications. Basic C and C++ programming experience is assumed. For deep learning enthusiasts, this book covers Python InterOps, DL libraries, and practical examples on performance estimation. **Polymers for Food Applications** Tomy J. Gutiérrez, 2018-08-09 This book presents an exhaustive review on the use of polymers for food applications. Polymer-based systems for food applications such as: films, foams, nano- and micro-encapsulated, emulsions, hydrogels, prebiotics, 3D food printing, edible polymers for the

development of foods for people with special feeding regimes, sensors, among others, have been analyzed in this work.

International Marketing: An Asia-Pacific Perspective Richard Fletcher, Heather Crawford, 2013-08-28 International Marketing, 6e is written from a wholly Australasian perspective and covers issues unique to local marketers and managers looking towards the Asia-Pacific region, the European Union, and beyond. It presents a wide range of contemporary issues faced by subsidiaries of multinational enterprises (MNEs) as well as small and medium scale enterprises (SMEs), mainly exporters, which make up the vast bulk of firms involved in international business in the Australasian region. International Marketing, 6e clearly demonstrates the links between the different stages of international marketing, connecting analysis with planning, planning with strategy and strategy with implementation. Key concepts are brought to life with comprehensively updated statistics, recent illustrations, and a variety of real-world examples and case studies.

LIGA and its Applications Volker Saile, Ulrike Wallrabe, Osamu Tabata, Jan G. Korvink, 2009-01-07 Covering technological aspects as well as the suitability and applicability of various kinds of uses, this handbook shows optimization strategies, techniques and assembly pathways to achieve the combination of complex, even three-dimensional structures with simple manufacturing steps. The authors provide information on markets, commercialization opportunities and aspects of mass or largescale production as well as design tools, experimental techniques, novel materials, and ideas for future improvements. Not only do they weigh up cost versus quantity, they also consider CMOS and LIGA strategies. Of interest to physicists, electronics engineers, materials scientists, institutional and industrial libraries as well as graduate students of the relevant disciplines.

Simulation of the Interaction Between Flywheel Energy Storage and Battery Energy Storage on the International Space Station, 2000 Nanotechnology Applications in Food Alexandru Grumezescu, Alexandra Elena Oprea, 2017-02-22 Nanotechnology Applications in Food: Flavor, Stability, Nutrition, and Safety is an up-to-date, practical, applications-based reference that discusses the advantages and disadvantages of each application to help researchers, scientists, and bioengineers know what and what not to do to improve and facilitate the production of food ingredients and monitor food safety. The book offers a broad spectrum of topics trending in the food industry, such as pharmaceutical, biomedical, and antimicrobial approaches in food, highlighting current concerns regarding safety, regulations, and the restricted use of nanomaterials. Includes how nanobiosensors are useful for the detection of foodborne pathogens Discusses applications of nanotechnology from flavor and nutrition, to stability and safety in packaging Includes nano and microencapsulation, nanoemulsions, nanosensors, and nano delivery systems Identifies practical applications of nanoscience for use in industry today

Hydrogen and Fuel Cells Bent Sørensen, 2011-11-14 A hydrogen economy, in which this one gas provides the source of all energy needs, is often touted as the long-term solution to the environmental and security problems associated with fossil fuels. However, before hydrogen can be used as fuel on a global scale we must establish cost effective means of producing, storing, and distributing the gas, develop cost efficient technologies for converting hydrogen to electricity (e.g. fuel cells), and

creating the infrastructure to support all this. Sorensen is the only text available that provides up to date coverage of all these issues at a level appropriate for the technical reader. The book not only describes the how and where aspects of hydrogen fuels cells usage, but also the obstacles and benefits of its use, as well as the social implications (both economically and environmental). Written by a world-renowned researcher in energy systems, this thoroughly illustrated and crossreferenced book is an excellent reference for researchers, professionals and students in the field of renewable energy. Updated sections on PEM fuel cells, Molten carbonate cells, Solid Oxide cells and Biofuel cells Updated material to reflect the growing commercial acceptance of stationary and portable fuel cell systems, while also recognizing the ongoing research in automotive fuel cell systems A new example of a regional system based on renewable energy sources reflects the growing international attention to uses of renewable energy as part of the energy grid Examples of life cycle analysis of environmental and social impacts Nanotechnologies and Food Great Britain. Parliament. House of Lords. Science and Technology Committee, 2010 Nanotechnologies and Food : 1st report of session 2009-10,

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Sustainable Design and Manufacturing Steffen G. Scholz, Robert J. Howlett, Rossi Setchi, 2022 This book consists of peer-reviewed papers, presented at the International Conference on Sustainable Design and Manufacturing (SDM 2021). Leading-edge research into sustainable design and manufacturing aims to enable the manufacturing industry to grow by adopting more advanced technologies and at the same time improve its sustainability by reducing its environmental impact. Relevant themes and topics include sustainable design, innovation and services; sustainable manufacturing processes and technology; sustainable manufacturing systems and enterprises; and decision support for sustainability. Application areas are wide and varied. The book will provide an excellent overview of the latest developments in the sustainable design and manufacturing area.

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