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Recent Progress of Biochemical and Biomedical Engineering in Japan II

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Michael Nosonovsky, Bharat Bhushan



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Dewetting/Wetting Smart Surfaces and Interfaces Atsushi Hozumi, Lei Jiang, Haeshin Lee, Masatsugu Shimomura, 2018-11-16 Superhydrophobic surfaces artificially mimicking lotus leaves have captured the attention of scientists and engineers over the past few decades Recent trends have shifted from superhydrophobicity to superomnipohobicity or superamphiphobicity In addition dynamic rather than static surface wetting dewetting properties which can be triggered by various stimuli including temperature pH magnetic electric fields solvents light exposure etc have been highly sought after for commercial applications This book will focus on recent topics related to various stimuli responsive wetting dewetting surfaces and give an overview of the knowledge and concepts of how to design and establish these smart artificial surfaces which can be used for technical developments in a wide variety research fields **Recent Progress of Biochemical and Biomedical**

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from human health monitoring to the monitoring of environmental conditions from wireless sensor networks and the Internet of Things to structural health monitoring Given its breadth of scope the book will benefit researchers practitioners technologists and graduate students involved in the monitoring of systems within the human body functions and activities healthcare technologies and services the environment etc *Nanodroplets* Zhiming M. Wang, 2014-01-08 Nanodroplets the basis of complex and advanced nanostructures such as quantum rings quantum dots and quantum dot clusters for future electronic and optoelectronic materials and devices have attracted the interdisciplinary interest of chemists physicists and engineers This book combines experimental and theoretical analyses of nanosized droplets which reveal many attractive properties Coverage includes nanodroplet synthesis structure unique behaviors and their nanofabrication including chapters on focused ion beam atomic force microscopy molecular beam epitaxy and the vapor liquid solid route Particular emphasis is given to the behavior of metallic nanodroplets water nanodroplets and nanodroplets in polymer and metamaterial nanocomposites The contributions of leading scientists and their research groups will provide readers with deeper insight into the chemical and physical mechanisms properties and potential applications of various nanodroplets **Industrial Applications for Intelligent Polymers and Coatings** Majid Hosseini, Abdel Salam Hamdy Makhlouf, 2016-05-14 This book is a comprehensive collaboration on intelligent polymers and coatings for industrial applications by worldwide researchers and specialists The authors cover the basis and fundamental aspects of intelligent polymers and coatings challenges and potential mechanisms and properties They include recent and emerging industrial applications in medical smart textile design oil and gas electronic aerospace and automobile industries as well as other applications including microsystems sensors and actuators among others The authors discuss the potential for future research in these areas for improvement and growth of marketable applications of intelligent polymers and coatings Recent Progress of Biochemical and Biomedical Engineering in Japan I Takeshi Kobayashi, 2004-07-21 The areas we deal with in biochemical engineering have expanded to include many various organisms and humans This book has gathered together the information of these expanded areas in biochemical engineering in Japan These two volumes are composed of 15 chapters on microbial cultivation techniques metabolic engineering recombinant protein production by transgenic avian cells to biomedical engineering including tissue engineering and cancer therapy Hopefully these volumes will give readers a glimpse of the past and also a view of what may happen in biochemical engineering in Japan *Knowledge Seeker - Ontology Modelling for Information Search and Management* Edward H. Y. Lim, James N. K. Liu, Raymond S.T. Lee, 2011-01-31 The Knowledge Seeker is a useful system to develop various intelligent applications such as ontology based search engine ontology based text classification system ontological agent system and semantic web system etc The Knowledge Seeker contains four different ontological components First it defines the knowledge representation model V Ontology Graph Second an ontology learning process that based on chi square statistics is proposed for automatic learning an Ontology Graph from texts for different domains Third it defines an

ontology generation method that transforms the learning outcome to the Ontology Graph format for machine processing and also can be visualized for human validation Fourth it defines different ontological operations such as similarity measurement and text classification that can be carried out with the use of generated Ontology Graphs The final goal of the KnowledgeSeeker system framework is that it can improve the traditional information system with higher efficiency In particular it can increase the accuracy of a text classification system and also enhance the search intelligence in a search engine This can be done by enhancing the system with machine processable ontology

Green Tribology Michael Nosonovsky, Bharat Bhushan, 2012-01-16 Tribology is the study of friction wear and lubrication Recently the concept of green tribology as the science and technology of the tribological aspects of ecological balance and of environmental and biological impacts was introduced The field of green tribology includes tribological technology that mimics living nature biomimetic surfaces and thus is expected to be environmentally friendly the control of friction and wear that is of importance for energy conservation and conversion environmental aspects of lubrication and surface modification techniques and tribological aspects of green applications such as wind power turbines or solar panels This book is the first comprehensive volume on green tribology The chapters are prepared by leading experts in their fields and cover such topics as biomimetics environmentally friendly lubrication tribology of wind turbines and renewable sources of energy and ecological impact of new technologies of surface treatment

Optical Guided-wave Chemical and Biosensors II Mohammed Zourob, Akhlesh Lakhtakia, 2010-03-10 For the first time distinguished scientists from key institutions worldwide provide a comprehensive approach to optical sensing techniques employing the phenomenon of guided wave propagation for chemical and biosensors This includes both state of the art fundamentals and innovative applications of these techniques The authors present a deep analysis of their particular subjects in a way to address the needs of novice researchers such as graduate students and post doctoral scholars as well as of established researchers seeking new avenues Researchers and practitioners who need a solid foundation or reference will find this work invaluable This second of two volumes covers the incorporation of periodic structures in waveguides to exploit the Bragg phenomenon optical fiber sensors hollow waveguides and micro resonators as well as a review of the tremendous expansion of terahertz technology for sensing applications

Janus Particle Synthesis, Self-Assembly and Applications Shan Jiang, Steve Granick, 2012-11-30 Named after the two faced roman god Janus particles have gained much attention due to their potential in a variety of applications including drug delivery This is the first book devoted to Janus particles and covers their methods of synthesis how these particles self assemble and their possible uses By following the line of synthesis self assembly and applications the book not only covers the fundamental and applied aspects but it goes beyond a simple summary and offers a logistic way of selecting the proper synthetic route for Janus particles for certain applications Written by pioneering experts in the field the book introduces the Janus concept to those new to the topic and highlights the most recent research progress on the topic for those active in the field

Electrospinning Seema Agarwal, Matthias Burgard, Andreas Greiner, Joachim Wendorff, 2016-03-21 Focuses on basic aspects of nano microfibers made by electrospinning with details on spinning recipes characterization techniques and chemistry of the polymers in use The basic understanding provided in the book is useful for producing 1D and 3D fibrous structures with specific properties for applications e g textiles membranes reinforcements catalysis filters or biomedical uses Students and practitioners will find great value in the step by step instructions how to manufacture nanofibers Electrospinning equipment History of electrospinning and nanofibers characterization fundamentals of electrospun fibers Ready made recipes for spinning solutions Conditions for the productions of highly diverse fiber morphologies and arrangements Chemistry of fiber forming materials

Introduction to Tribology Bharat Bhushan, 2013-02-14 A fully updated version of the popular Introduction to Tribology the second edition of this leading tribology text introduces the major developments in the understanding and interpretation of friction wear and lubrication Considerations of friction and wear have been fully revised to include recent analysis and data work and friction mechanisms have been reappraised in light of current developments In this edition the breakthroughs in tribology at the nano and micro level as well as recent developments in nanotechnology and magnetic storage technologies are introduced A new chapter on the emerging field of green tribology and biomimetics is included Introduces the topic of tribology from a mechanical engineering mechanics and materials science points of view Newly updated chapter covers both the underlying theory and the current applications of tribology to industry Updated write up on nanotribology and nanotechnology and introduction of a new chapter on green tribology and biomimetics

Advances in Contact Angle, Wettability and Adhesion, Volume 4 K. L. Mittal, 2019-10-16 This is the fourth volume in the series Advances in Contact Angle Wettability and Adhesion initiated to consolidate information and provide commentary on certain recent research aspects dealing with this important topic Its predecessor Volumes 1 2 and 3 were published in 2013 2015 and 2018 respectively This new book comprising 14 research and review articles is divided into four parts Part 1 Contact Angle and Wettability Aspects Part 2 Surface Free Energy and Surface Tension Determination Part 3 Applied Aspects The topics covered include Contact Angle Determination of Talc Powders from Heat of Immersion Surface Wetting at Macro and Nanoscale Wettability of Wood Surfaces with Waterborne Acrylic Lacquer Stains Modulated by DBD Plasma Treatment in Air at Atmospheric Pressure Wettability of Ultrafiltration Membranes Determination of the Surface Free Energy of Solid Surfaces Can the Best Model be Found Surface Free Energy Characterization of Talc Powders Determination of the Surface Free Energy of Skin and the Factors Affecting it by the Contact Angle Method Determination of Surface Tension Components of Aqueous Solutions using Fomblin HC 25 R Perfluoropolyether Liquid Film as a Solid Substrate Enhancing the Wettability of Polybenzimidazole PBI to Improve Fuel Cell Performance Evaluation of Sebum Resistance for Long Wear Face Make Up Products Using Contact Angle Measurements Contact Angle Hysteresis of Pressure Sensitive Adhesives due to Adhesion Tension Relaxation The Potential of Surface Nano Engineering and Superhydrophobic Surfaces in

Drag Reduction Laser Surface Engineering of Polymeric Materials for Enhanced Mesenchymal Stem Cell Adhesion and Growth Sisal Green Resin Interfaces in Green Composites *Surface Plasmon Nanophotonics* Mark L. Brongersma, Pieter G. Kik, 2007-09-18 This book discusses a new class of photonic devices known as surface plasmon nanophotonic structures The book highlights several exciting new discoveries while providing a clear discussion of the underlying physics the nanofabrication issues and the materials considerations involved in designing plasmonic devices with new functionality Chapters written by the leaders in the field of plasmonics provide a solid background to each topic *Dielectrophoresis* Ronald R. Pethig, 2017-05-08 Comprehensive coverage of the basic theoretical concepts and applications of dielectrophoresis from a world renowned expert Features hot application topics including Diagnostics Cell based Drug Discovery Sensors for Biomedical Applications Characterisation and Sorting of Stem Cells Separation of Cancer Cells from Blood and Environmental Monitoring Focuses on those aspects of the theory and practice of dielectrophoresis concerned with characterizing and manipulating cells and other bioparticles such as bacteria viruses proteins and nucleic acids Features the relevant chemical and biological concepts for those working in physics and engineering *Fundamentals of Liquid Crystal Devices* Deng-Ke Yang, Shin-Tson Wu, 2014-12-03 Liquid Crystal Devices are crucial and ubiquitous components of an ever increasing number of technologies They are used in everything from cellular phones eBook readers GPS devices computer monitors and automotive displays to projectors and TVs to name but a few This second edition continues to serve as an introductory guide to the fundamental properties of liquid crystals and their technical application while explicating the recent advancements within LCD technology This edition includes important new chapters on blue phase display technology advancements in LCD research significantly contributed to by the authors themselves This title is of particular interest to engineers and researchers involved in display technology and graduate students involved in display technology research Key features Updated throughout to reflect the latest technical state of the art in LCD research and development including new chapters and material on topics such as the properties of blue phase liquid crystal displays and 3D liquid crystal displays Explains the link between the fundamental scientific principles behind liquid crystal technology and their application to photonic devices and displays providing a thorough understanding of the physics optics electro optics and material aspects of Liquid Crystal Devices Revised material reflecting developments in LCD technology including updates on optical modelling methods transmissive LCDs and tunable liquid crystal photonic devices Chapters conclude with detailed homework problems to further cement an understanding of the topic **Sliding Friction** Bo N.J. Persson, 2013-03-14 Sliding friction is one of the oldest problems in physics and certainly one of the most important from a practical point of view The ability to produce durable low friction surfaces and lubricant fluids has become an important factor in the miniaturization of moving components in many technological devices e g magnetic storage recording systems miniature motors and many aerospace components This book will be useful to physicists chemists materials scientists and engineers who want to understand sliding

friction The book or parts of it could also form the basis for a modern undergraduate or graduate course on tribology

Biomaterials for Musculoskeletal Regeneration Bikramjit Basu, 2016-11-01 This book covers the basics of the biomaterials science its applications to bone tissue engineering The introductory section describes the most necessary concepts and techniques related to the cell and molecular biology with a particular focus on evaluating the biocompatibility property The layout of this book facilitates easier understanding of the area of bone tissue engineering The book integrates the Materials Science and Biological Science It covers processing and basic material properties of various biocompatible metals and ceramics based materials in vitro and in vivo biocompatibility and toxicity assessment in the context of bone tissue engineering and processing and properties of metal ceramic and polymer based biocomposites including the fabrication of porous scaffold materials The book can be used as a textbook for senior undergraduate and graduate coursework It will also be a useful reference for researchers and professionals working in the area

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