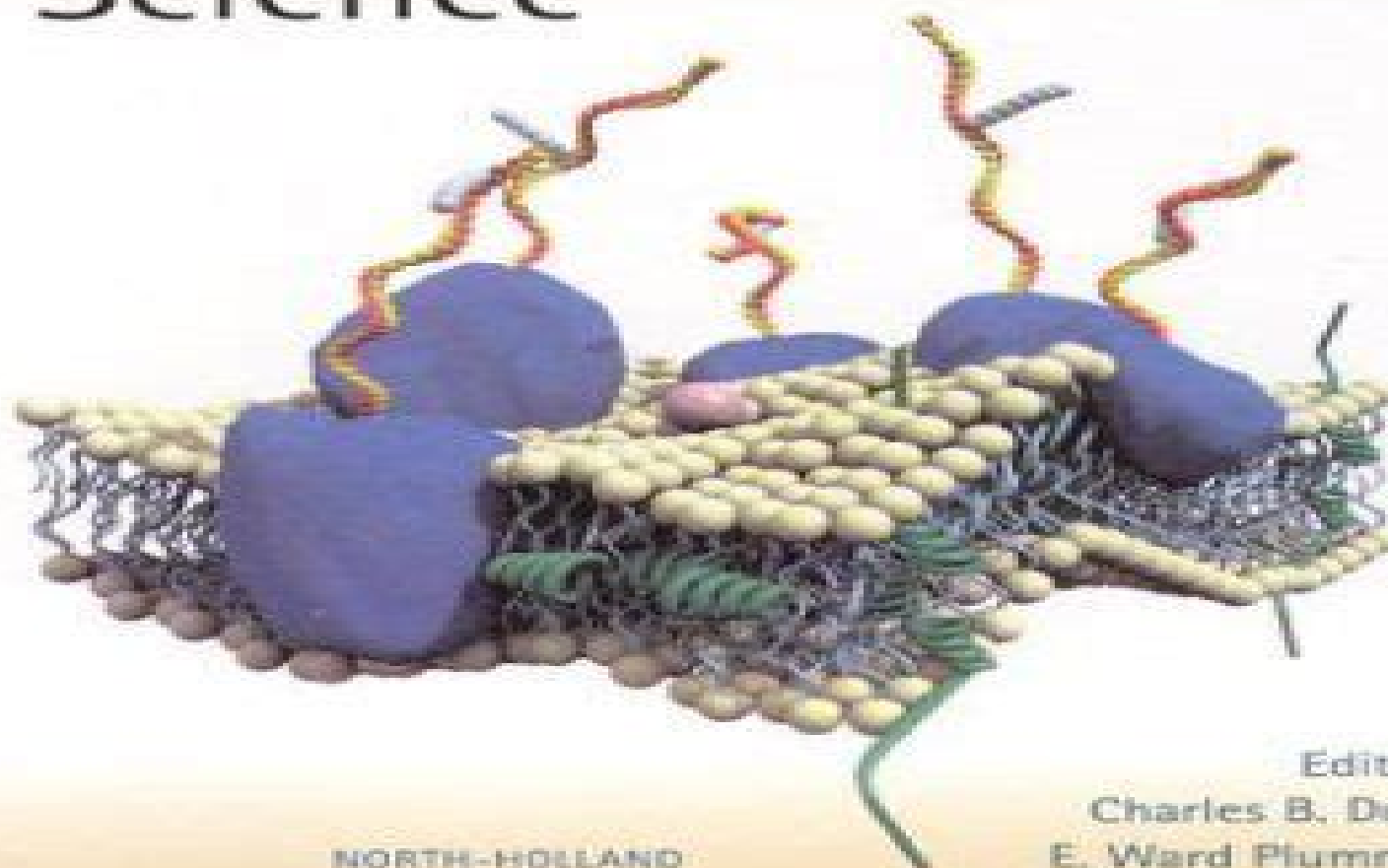


Frontiers in Surface and Interface Science



NORTH-HOLLAND

Editors
Charles B. Duke
E. Ward Plummer

Frontiers In Surface And Interface Science

**Kenneth A. Howard, Thomas Vorup-
Jensen, Dan Peer**



Frontiers In Surface And Interface Science:

Frontiers in Surface Science and Interface Science C.B. Duke, E. Ward Plummer, 2002-05-21 Any notion that surface science is all about semiconductors and coatings is laid to rest by this encyclopedic publication Bioengineered interfaces in medicine interstellar dust DNA computation conducting polymers the surfaces of atomic nuclei all are brought up to date *Frontiers in Surface and Interface Science* a milestone publication deserving a wide readership It combines a sweeping expert survey of research today with an educated look into the future It is a future that embraces surface phenomena on scales from the subatomic to the galactic as well as traditional topics like semiconductor design catalysis and surface processing modeling and characterization And great efforts have been made to express sophisticated ideas in an attractive and accessible way Nanotechnology surfaces for DNA computation polymer based electronics soft surfaces interstellar surface chemistry all feature in this comprehensive collection

Frontiers in Surface and Interface Science Charles B. Duke, 2002

Chemical Bonding at Surfaces and Interfaces Anders Nilsson, Lars G.M. Pettersson, Jens Norskov, 2011-08-11 Molecular surface science has made enormous progress in the past 30 years The development can be characterized by a revolution in fundamental knowledge obtained from simple model systems and by an explosion in the number of experimental techniques The last 10 years has seen an equally rapid development of quantum mechanical modeling of surface processes using Density Functional Theory DFT *Chemical Bonding at Surfaces and Interfaces* focuses on phenomena and concepts rather than on experimental or theoretical techniques The aim is to provide the common basis for describing the interaction of atoms and molecules with surfaces and this to be used very broadly in science and technology The book begins with an overview of structural information on surface adsorbates and discusses the structure of a number of important chemisorption systems Chapter 2 describes in detail the chemical bond between atoms or molecules and a metal surface in the observed surface structures A detailed description of experimental information on the dynamics of bond formation and bond breaking at surfaces make up Chapter 3 Followed by an in depth analysis of aspects of heterogeneous catalysis based on the d band model In Chapter 5 adsorption and chemistry on the enormously important Si and Ge semiconductor surfaces are covered In the remaining two Chapters the book moves on from solid gas interfaces and looks at solid liquid interface processes In the final chapter an overview is given of the environmentally important chemical processes occurring on mineral and oxide surfaces in contact with water and electrolytes Gives examples of how modern theoretical DFT techniques can be used to design heterogeneous catalysts This book suits the rapid introduction of methods and concepts from surface science into a broad range of scientific disciplines where the interaction between a solid and the surrounding gas or liquid phase is an essential component Shows how insight into chemical bonding at surfaces can be applied to a range of scientific problems in heterogeneous catalysis electrochemistry environmental science and semiconductor processing Provides both the fundamental perspective and an overview of chemical bonding in terms of

structure electronic structure and dynamics of bond rearrangements at surfaces

Surface Structure Determination by LEED and X-rays Wolfgang Moritz, Michel A. Van Hove, 2022-08-25 This timely text covers the theory and practice of surface and nanostructure determination by low energy electron diffraction LEED and surface X ray diffraction SXRD it is the first book on such quantitative structure analysis in over 30 years It provides a detailed description of the theory including cutting edge developments and tested experimental methods The focus is on quantitative techniques while the qualitative interpretation of the LEED pattern without quantitative I V analysis is also included Topics covered include the future study of nanoparticles quasicrystals thermal parameters disorder and modulations of surfaces with LEED with introductory sections enabling the non specialist to follow all the concepts and applications discussed With numerous colour figures throughout this text is ideal for undergraduate and graduate students and researchers whether experimentalists or theorists in the fields of surface science nanoscience and related technologies It can serve as a textbook for graduate level courses of one or two semesters

Surface and Interface Science, Volumes 5 and 6 Klaus Wandelt, 2016-03-14 In eight volumes Surface and Interface Science covers all fundamental aspects and offers a comprehensive overview of this research area for scientists working in the field as well as an introduction for newcomers Volume 5 Solid Gas Interfaces I Topics covered Basics of Adsorption and Desorption Surface Microcalorimetry Adsorption of Rare Gases Adsorption of Alkali and Other Electro Positive Metals Halogen adsorption on metals Adsorption of Hydrogen Adsorption of Water Adsorption of Small Molecules on Metal Surfaces Surface Science Approach to Catalysis Adsorption Bonding and Reactivity of Unsaturated and Multifunctional Molecules Volume 6 Solid Gas Interfaces II Topics covered Adsorption of Large Organic Molecules Chirality of Adsorbates Adsorption on Semiconductor Surfaces Adsorption on Oxide Surfaces Oscillatory Surface Reactions Statistical Surface Thermodynamics Theory of the Dynamics at Surfaces Atomic and Molecular Manipulation

Theoretical Surface Science Axel Gross, 2003 Recent years have witnessed tremendous progress in the theoretical treatment of surfaces and processes on surfaces A variety of surface properties can now be described from first principles i e without invoking any empirical parameters In this book the theoretical concepts and computational tools necessary and relevant for a microscopic approach to the theoretical description of surface science is presented Based on the fundamental theoretical entity the Hamiltonian a hierarchy of theoretical methods is introduced Furthermore a detailed discussion of surface phenomena is given and comparisons made to experimental results made making the book suitable for both graduate students and for experimentalists seeking an overview of the theoretical concepts in surface science

Surface Science K. Oura, V.G. Lifshits, A.A. Saranin, A.V. Zotov, M. Katayama, 2013-03-14 Designed as a textbook for advanced undergraduate and graduate students in engineering and physical sciences who are seeking a general overview of surface science this book also provides the necessary background for researchers just starting out in the field It covers all the most important aspects of modern surface science from the experimental background and crystallographic basics to modern analytical techniques and

applications to thin films and nanostructures All topics are presented in a concise and clear form accessible to a beginner At the same time the coverage is comprehensive and at a high technical level with emphasis on the fundamental physical principles Numerous examples references practice exercises and problems complement this remarkably complete treatment which will also serve as an excellent reference for researchers and practitioners

Assessment of Department of Defense Basic Research National Research Council, Division on Engineering and Physical Sciences, Committee on Department of Defense Basic Research, 2005-01-22 The Department of Defense DOD supports basic research to advance fundamental knowledge in fields important to national defense Over the past six years however several groups have raised concern about whether the nature of DOD funded basic research is changing The concerns include these Funds are being spent for research that does not fall under DOD's definition of basic research reporting requirements have become cumbersome and onerous and basic research is handled differently by the three services To explore these concerns the Congress directed DOD to request a study from the National Research Council NRC about the nature of basic research now being funded by the Department Specifically the NRC was to determine if the programs in the DOD basic research portfolio are consistent with the DOD definition of basic research and with the characteristics associated with fundamental research

Frontiers of Surface and Interface Science and Engineering 2004 (FSISE 2004) Conference Frontiers of Surface and Interface Science and Engineering Conference, Zhongguo-Jinshu-Xuehui, 2005 , 6th European Conference of the International Federation for Medical and Biological Engineering Igor Lacković, Darko Vasic, 2014-09-02 This volume presents the Proceedings of the 6th European Conference of the International Federation for Medical and Biological Engineering MBEC2014 held in Dubrovnik September 7-11 2014 The general theme of MBEC 2014 is Towards new horizons in biomedical engineering The scientific discussions in these conference proceedings include the following themes Biomedical Signal Processing Biomedical Imaging and Image Processing Biosensors and Bioinstrumentation Bio Micro Nano Technologies Biomaterials Biomechanics Robotics and Minimally Invasive Surgery Cardiovascular Respiratory and Endocrine Systems Engineering Neural and Rehabilitation Engineering Molecular Cellular and Tissue Engineering Bioinformatics and Computational Biology Clinical Engineering and Health Technology Assessment Health Informatics E Health and Telemedicine Biomedical Engineering Education

Encyclopedia of Surface and Colloid Science P. Somasundaran, 2006
Coatings for Biomedical Applications Mike Driver, 2012-02-22 The biomaterials sector is rapidly expanding and significant advances have been made in the technology of biomedical coatings and materials which provide a means to improve the wear of joints change the biological interaction between implant and host and combine the properties of various materials to improve device performance Coatings for biomedical applications provides an extensive review of coating types and surface modifications for biomedical applications The first part of the book explores a range of coating types and their biomedical applications Chapters look at hydrophilic mineral and pyrolytic carbon coatings in and ex vivo orthopaedic applications and

finally at surface modification and preparation techniques Part two presents case studies of orthopaedic and ophthalmic coatings and biomedical applications including vascular stents cardiopulmonary by pass equipment and ventricular assist devices With its clear structure and comprehensive review of research Coatings for biomedical applications is a valuable resource to researchers scientists and engineers in the biomedical industry It will also benefit anyone studying or working within the biomedical sector particularly those specialising in biomedical coatings Provides an extensive review of coating types and surface modifications for biomedical applications Chapters look at hydrophilic coatings for biomedical applications in and ex vivo mineral coatings for orthopaedic applications pyrolytic carbon coating and other commonly used biomedical coatings Presents case studies of orthopaedic and ophthalmic coatings and biomedical applications including vascular stents cardiopulmonary by pass equipment and ventricular assist devices

Is That Real? National Research Council, Division on Engineering and Physical Sciences, Board on Manufacturing and Engineering Design, Committee on Technologies to Deter Currency Counterfeiting, 2006-05-19 A key mission of the Bureau of Engraving and Printing of the Department of the Treasury is the design and printing of U S banknotes The BEP is responsible for producing easily recognizable currency that is difficult to counterfeit In recent years the bureau has recognized the modern information technology could lead to entirely new types of counterfeiting threats and it has requested a number of studies by the NRC to assess these evolving threats In this new request the BEP asked the NRC to identify and evaluate significant emerging counterfeiting threats and to assess technologically feasible counterfeit deterrent features for potential use in new designs This first report provides an assessment of emerging threats including a wide range of digital imaging and printing techniques It also presents an analysis of a systems approach to the counterfeiting threat The second report will offer an evaluation of new banknote features to address these threats

Superamphiphobic Surfaces Junping Zhang, Mohammad Shahid, 2025-08-04 A definitive resource on superamphiphobic surfaces covering their fabrications characterizations practical applications challenges and future directions Superamphiphobic Surfaces Fabrication Characterization and Applications addresses a critical knowledge gap in the field of superamphiphobic surfaces a class of materials with the extraordinary ability to repel water oil and other liquids by both exploring their fundamentals and also offering detailed insights into their fabrication techniques characterization methods and durability considerations The book presents practical applications of superamphiphobic surfaces in self cleaning anti fouling environmental clean up biomedicine and food packaging and processing The book is divided into five parts Part I lays the foundation for understanding superamphiphobic surfaces by introducing the fundamental principles that govern their behavior Part II discusses the fabrication techniques developed to produce superamphiphobic surfaces with varying complexity durability and functionality Part III provides guidelines to evaluate the performance of superamphiphobic surfaces Part IV highlights several key areas where these surfaces are already being applied Part V addresses the current challenges and prospects of superamphiphobic surfaces Written by an experienced team of researchers Superamphiphobic

Surfaces covers sample topics such as The increased level of sophistication required to achieve superoleophobicity particularly for liquids with low surface tension Contact angle hysteresis wetting regimes and the role of micro and nanoscale structures in achieving extreme liquid repellency Specific challenges associated with scaling up fabrication techniques in industrial applications Performance criteria including mechanical durability resistance to liquid impalement and self healing capabilities The lifespan of various materials in harsh environments such as oil rigs pipelines and marine vessels Empowering readers with knowledge to drive innovation solve practical problems and enhance their expertise Superamphiphobic Surfaces is an essential reference for researchers and professionals in materials science healthcare environmental protection and other fields

Nanomedicine Kenneth A. Howard, Thomas Vorup-Jensen, Dan Peer, 2016-05-27 This title is a comprehensive text that addresses key aspects of nanomedicine such as properties occurring at the nanoscale that have unique medical effects great molecular knowledge of the human body and disease processes and apparent clinical translation as opposed to narrow insufficient texts that address only a few topics and attempt to rebrand established drug delivery It will clearly define the field which is needed due to the immaturity and broad nature of the field The book is aligned with both the USA and European roadmaps for nanomedicine and will address initiatives taken in Asia that ensures timely and relevant content In depth chapters ensure each section is adequately covered The nanopharmaceutical section focuses on novel drug delivery systems relevant to nanomedicine and the book has an extensive section on immune recognition at the nanoscale which has implications for in vivo applications of nanomedicines

Frontiers on Separation Science and Technology Sung Hyun Kim, Zhangfa Tong, 2004 This book presents the latest achievements of separation science and technology It highlights the application of separation with regard to problems of current interest such as the protection of the environment and the development of emerging technology including chemical engineering biotechnology renewable energy sources and recycling of materials

Encyclopedia of Medical Devices and Instrumentation, Alloys, Shape Memory - Brachytherapy, Intravascular John G. Webster, 2006-04-07 The articles in The Encyclopedia of Medical Devices and Instrumentation focus on what is currently useful or is likely to be useful in future medicine They answer the question What are the branches of medicine and how does technology assist each of them Articles focus on the practice of medicine that is assisted by devices rather than including for example the use of drugs to treat disease The title is the only resource on the market dealing with the subject in encyclopedic detail Accessible to practitioners with a broad range of backgrounds from students to researchers and physicians Articles cover the latest developments such as nanotechnology fiber optics and signal processing

Nanoemulsions in Food Technology Javed Ahmad, Leo M.L. Nollet, 2021-10-17 As of late greater efforts are being made in the use of nanoemulsion techniques to encapsulate protect and deliver functional compounds for food applications given their advantages over conventional emulsification techniques In addition delivery systems of nano scale dimensions use low energy emulsification methods and exclude the need of any solvent heat or sophisticated instruments in their production

Divided into three sections Nanoemulsions in Food Technology Development Characterization and Applications will provide in depth information and comprehensive discussion over technologies physical and nanostructural characterization as well as applicability of the nanoemulsion technique in food sciences It describes the techniques involved in nanoemulsion characterization mainly dealing with interfacial and nanostructural characterization of nanoemulsions different physical characterization techniques as well as various imaging and separation techniques involved in its characterization Key Features Provides a detailed discussion about the technology of nanoemulsion Explains how nanoemulsion technique is helpful in using essential oils of different biological sources Presents methods of preparation and recent advancements in manufacturing along with stability perspectives of this technique Discusses recent advancements in manufacturing and reviews the stability perspectives of nanoemulsion techniques This book contains in depth information on a technology overview physical and nanostructural characterization as well as applicability of the nanoemulsion technique in food sciences It is a concise body of information that is beneficial to researchers industries and students alike The contributing authors are drawn from a rich blend of experts in various areas of scientific field exploring nanoemulsion techniques for wider applications Also available in the Food Analysis and Properties Series Sequencing Technologies in Microbial Food Safety and Quality edited by Devarajan Thangardurai Leo M L Nollet Saher Islam and Jeyabalan Sangeetha ISBN 9780367351182 Chiral Organic Pollutants Monitoring and Characterization in Food and the Environment edited by Edmond Sanganyado Basil K Munjanja and Leo M L Nollet ISBN 9780367429232 Analysis of Nanoplastics and Microplastics in Food edited by Leo M L Nollet and Khwaja Salahuddin Siddiqi ISBN 9781138600188 PHYSICAL PHARMACEUTICS-I Mrs. Varsha Sharma, Ms. Mahefuzabibi Mohamed Desai, Dr. Adeep Kujur, Mr. Nagineni Sudarshan Rao, Mr. Abhishek, One of the main areas of study in pharmaceutical science is physical pharmaceuticals which connects the discovery and formulation of drugs with the theoretical underpinnings of chemistry and physics One cannot emphasize the significance of this field of study enough as it offers the fundamental knowledge needed to create and produce pharmaceuticals that are both safe and effective for human consumption The purpose of this book Physical Pharmaceutics I is to provide a thorough overview of the ideas behind physical pharmaceuticals It attempts to give practitioners researchers and students a firm foundation in the physical and chemical processes that underlie the actions and functions of pharmaceuticals This volume covers the fundamental ideas of physical pharmaceuticals such as the dynamics of drug delivery systems the stability solubility and dissolution of drugs and the characteristics of active ingredients The organization of each chapter has been carefully considered in order to integrate theoretical knowledge with real world applications and convey complicated ideas in an understandable way Both inexperienced students and seasoned experts will find this book s information to be beneficial In addition to offering education our goal is to provide a resource that stimulates more investigation and study in the subject by fusing basic ideas with real world examples and case studies To the many people and organizations whose contributions have shaped our effort

we sincerely thank you The book would not have been the same without their advice and encouragement With physical pharmaceuticals being more widely understood and used we expect Physical Pharmaceutics I will help advance the field of pharmaceutical sciences and spur innovation in the field

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