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Solid Surfaces and the Gas-Solid Interface, 1961 **Solid Surfaces and the Gas-solid Interface: Papers Presented at The... 139th Meeting...st. Louis, Mo., March 1961** American Chemical Society, 1961 **Simple Processes at the**

Gas-Solid Interface R.G. Compton, C.H. Bamford, C.F.H. Tipper†, 1984-07-01 Simple Processes at the Gas Solid Interface

Solid Surfaces, Interfaces and Thin Films Hans Lüth, 2014-11-05 This book emphasises both experimental and theoretical aspects of surface interface and thin film physics As in previous editions the preparation of surfaces and thin films their atomic and morphological structure their vibronic and electronic properties as well as fundamentals of adsorption are treated Because of their importance in modern information technology and nanostructure research particular emphasis is paid to electronic surface and interface states semiconductor space charge layers and heterostructures A special chapter of the book is devoted to collective phenomena at interfaces and in thin films such as superconductivity and magnetism The latter topic includes the meanwhile important issues giant magnetoresistance and spin transfer torque mechanism both effects being of high interest in information technology In this new edition for the first time the effect of spin orbit coupling on surface states is treated In this context the class of the recently detected topological insulators materials of significant importance for spin electronics are discussed Particular emphasis hereby is laid on the new type of topologically protected surface states with well defined spin orientation Furthermore some important well established experimental techniques such as X ray diffraction XRD and reflection anisotropy spectroscopy RAS which were missing so far in earlier editions were added in this new 6th edition of the book **Solid Surfaces and the Gas-solid Interface** American Chemical Society. Meeting, 1961 *Solid*

Surfaces and the Gas-Solid Interface Lewellyn E. Copeland, Ralph A. Beebe, Donald P. Graham, 2013-05 Additional Editors Are Albert C Zettlemoyer William A Zisman And Robert F Gould *Solid Surfaces and the Gas-Solid Interface; Advances in Chemistry*, 1961 The Chemical Physics of Surfaces S. Morrison, 2012-12-06 At the present stage of development of surface science there has seemed to be a need for a book length review spanning the disciplines of surface physics and surface chemistry a review to summarize and show the connection between the observations from each discipline The various results and theories derived on the one hand from studies of the physical electronic and optical properties of surfaces and on the other hand from studies of the chemical activity of surfaces supplement each other in the search for a realistic model of the surface The improved understanding possible with such an interdisciplinary approach has been confirmed by recent developments which cannot be classified as either surface chemistry or surface physics Specifically recent new experimental techniques and quantum mechanical models have provided a much more accurate picture of the nature of the electronic energy levels bonding orbitals present at a solid surface With this more accurate picture we are now able to reconcile the various chemical and physical models that appeared in the early literature on surfaces The objective of this work has therefore been to describe the results and current models of surface science spanning a broad gray area between

surface physics and surface chemistry with some overlap into each of these disciplines Relevant aspects of surface chemistry are discussed we cover chemical interactions where bonding and electronic properties dominate but stop short of specialized topics such as surfactants or liquid liquid interfaces **Solid surfaces and the gas-solid interface** L. E. Copeland,1961

Solid Surfaces and the Gas-solid Interface American Chemical Society. Division of Colloid and Surface Chemistry,1961

NASA Thesaurus ,1998 Contains the authorized subject terms by which the documents in the NASA STI Database are indexed and retrieved Surfaces and Interfaces of Solids Hans Lüth,2013-11-27

Surfaces and Interfaces of Solids emphasizes both experimental and theoretical aspects of surface and interface physics Beside the techniques of preparing well defined solid surfaces and interfaces basic models for the description of structural vibronic and electronic properties of interfaces are described as well as fundamental aspects of adsorption and layer growth Because of its importance for modern microelectronics special emphasis is placed on the electronic properties of semiconductor interfaces and heterostructures Experimental topics covering the basics of ultrahigh vacuum technology electron optics surface spectroscopies and electrical interface characterization techniques are presented in the form of separate panels

Characterization of Porous Solids and Powders: Surface Area, Pore Size and Density S. Lowell,Joan E.

Shields,Martin A. Thomas,Matthias Thommes,2012-09-14 The growth of interest in newly developed porous materials has prompted the writing of this book for those who have the need to make meaningful measurements without the benefit of years of experience One might consider this new book as the 4th edition of Powder Surface Area and Porosity Lowell the sections on mercury porosimetry and particularly chemisorption have been updated and greatly expanded *Mass Transfer Driven Evaporation From Capillary Porous Media* Rui Wu,Marc Prat,2022-11-09

Mass Transfer Driven Evaporation from Capillary Porous Media offers a comprehensive review of mass transfer driven drying processes in capillary porous media including pore scale and macro scale experiments and models It covers kinetics of drying of a single pore pore scale experiments and models macro scale experiments and models and understanding of the continuum model from pore scale studies The book Explains the detailed transport processes in porous media during drying Introduces cutting edge visualization experiments of drying in porous media Describes the pore network models of drying in porous media Discusses the continuum models of drying in porous media based on pore scale studies Points out future research opportunities Aimed at researchers students and practicing engineers this work provides vital fundamental and applied information to those working in drying technology food processes applied energy and mechanical and chemical engineering Introduction to Food Process Engineering Albert Ibarz,Gustavo V. Barbosa-Canovas,2014-04-10

Consumer expectations are systematically growing with demands for foods with a number of attributes which are sometimes difficult for manufacturers to meet The engineering processes that are needed to obtain top quality foods are a major challenge due to the diversity of raw materials intermediates and final products As in any other enterpris Textbook of Physical Pharmaceutics-I Prof. Satish Rajendra

Borse ,Akshay Nitin Dev,2024-12-27 **Advances in Contact Angle, Wettability and Adhesion, Volume 2** K. L. Mittal,2015-09-22 This book is the second volume in the series Contact Angle Wettability and Adhesion The premier volume was published in 2013 Even a cursory glance at the literature show that in recent years the interest in understanding and controlling wetting behavior has grown exponentially Currently there is tremendous research activity in rendering surfaces superhydrophobic superhydrophilic superoleophobic superoleophilic omniphobic and omniphilic because of their applications in many technologically important fields Also the durability or robustness of materials with such super characteristics is extremely significant as well as the utilization of green biobased materials to obtain such surfaces This book containing 19 articles reflects more recent developments in certain areas covered in its predecessor volume as well as it includes some topics which were not covered before Concomitantly this book provides a medium to keep abreast of the latest research activity and developments in the arena of contact angle wettability and adhesion The topics discussed include Understanding of wetting hysteresis fabrication of superhydrophobic materials plasma treatment to achieve superhydrophilic surfaces highly liquid repellent textiles modification of paper surfaces to control liquid wetting and adhesion Cheerios effect and its control engineering materials with superwettability laser ablation to create micro nano patterned surfaces liquid repellent amorphous carbon nanoparticle networks mechanical durability of liquid repellent surfaces wetting of solid walls and spontaneous capillary flow relationship between roughness and oleophilicity superhydrophobic and superoleophobic green materials computational analysis of wetting on hydrophobic surfaces application to self cleaning mechanisms bubble adhesion to superhydrophilic surfaces surface free energy of superhydrophobic materials and role of surface free energy in pharmaceutical tablet tensile strength *Fluid Mechanics for Civil and Environmental Engineers* Ahlam I. Shalaby,2018-02-21 An ideal textbook for civil and environmental mechanical and chemical engineers taking the required Introduction to Fluid Mechanics course Fluid Mechanics for Civil and Environmental Engineers offers clear guidance and builds a firm real world foundation using practical examples and problem sets Each chapter begins with a statement of objectives and includes practical examples to relate the theory to real world engineering design challenges The author places special emphasis on topics that are included in the Fundamentals of Engineering exam and make the book more accessible by highlighting keywords and important concepts including Mathcad algorithms and providing chapter summaries of important concepts and equations *Proceedings of the 4th International Symposium on Plasma and Energy Conversion* Dong Dai,Cheng Zhang,Zhi Fang,Xinpei Lu,2023-04-21 These proceedings highlight the fundamental researches and up to data developments on energy conversion and high voltage application by means of low temperature and atmospheric pressure plasma In recent years plasma assisted energy conversion gains increasing attention as an alternative to thermal catalysis or electro catalysis These proceedings discuss and exchange cutting edge scientific innovations and technological advances in fields like plasma enabled synthesis of chemicals and fuels plasma enabled the environmental clean up plasma

enabled catalysis treatment in situ probing of plasma catalyst interactions and its high voltage applications which show great potentials in industrial demands like CO₂ hydrogenation CH₄ reforming and nitrogen fixation plasma deposition chemical synthesis VOC abatement and high voltage insulation This collection of papers presents the main applications of plasma induced energy conversion and high voltage discharge in the form of separate chapters including cutting edge studies on conversion technology complex mechanism simulation in situ detection and converged applications by artificial intelligence These proceedings are suitable for researchers engaged in fields like plasma catalysis discharge diagnosis and modelling chemical modelling and high voltage applications The major topics covered in the conference proceedings are 1 Advanced plasma catalysis conversion technology 2 Advanced in situ discharge diagnosis technology 3 Advanced in situ plasma catalysis characterization 4 Multi scale or innovative modelling technology 5 High voltage discharge and application

Dropwise Condensation on Inclined Textured Surfaces Sameer Khandekar, Krishnamurthy Muralidhar, 2013-09-06

Dropwise Condensation on Textured Surfaces presents a holistic framework for understanding dropwise condensation through mathematical modeling and meaningful experiments The book presents a review of the subject required to build up models as well as to design experiments Emphasis is placed on the effect of physical and chemical texturing and their effect on the bulk transport phenomena Application of the model to metal vapor condensation is of special interest The unique behavior of liquid metals with their low Prandtl number and high surface tension is also discussed The model predicts instantaneous drop size distribution for a given level of substrate subcooling and derives local as well as spatio temporally averaged heat transfer rates and wall shear stress

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