

THE CHEMICAL PHYSICS OF SOLID SURFACES AND HETEROGENEOUS CATALYSIS

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VOLUME 5

SURFACE PROPERTIES OF
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The Chemical Physics Of Solid Surfaces And Heterogeneous Catalysis Volume 3 Part B Chemisorption Systems

David Anthony King, D. P. Woodruff



The Chemical Physics Of Solid Surfaces And Heterogeneous Catalysis Volume 3 Part B Chemisorption Systems:

The Chemical Physics of Solid Surfaces and Heterogeneous Catalysis: Chemisorption systems, pts. A-B David Anthony King, D. P. Woodruff, 1981 *The Chemical Physics of Solid Surfaces and Heterogeneous Catalysis: Chemisorption systems* (2 v.) David Anthony King, D. P. Woodruff, 1984 The Chemical Physics of Solid Surfaces and Heterogeneous Catalysis David Anthony King, D. P. Woodruff, 1984 **Introduction to Surface Chemistry and Catalysis** Gabor A. Somorjai, Yimin Li, 2010-06-08 Now updated the current state of development of modern surface science Since the publication of the first edition of this book molecular surface chemistry and catalysis science have developed rapidly and expanded into fields where atomic scale and molecular information were previously not available This revised edition of Introduction to Surface Chemistry and Catalysis reflects this increase of information in virtually every chapter It emphasizes the modern concepts of surface chemistry and catalysis uncovered by breakthroughs in molecular level studies of surfaces over the past three decades while serving as a reference source for data and concepts related to properties of surfaces and interfaces The book opens with a brief history of the evolution of surface chemistry and reviews the nature of various surfaces and interfaces encountered in everyday life New research in two crucial areas nanomaterials and polymer and biopolymer interfaces is emphasized while important applications in tribology and catalysis producing chemicals and fuels with high turnover and selectivity are addressed The basic concepts surrounding various properties of surfaces such as structure thermodynamics dynamics electrical properties and surface chemical bonds are presented The techniques of atomic and molecular scale studies of surfaces are listed with references to up to date review papers For advanced readers this book covers recent developments in in situ surface analysis such as high pressure scanning tunneling microscopy ambient pressure X ray photoelectron spectroscopy and sum frequency generation vibrational spectroscopy SFG Tables listing surface structures and data summarizing the kinetics of catalytic reactions over metal surfaces are also included New to this edition A discussion of new physical and chemical properties of nanoparticles Ways to utilize new surface science techniques to study properties of polymers reaction intermediates and mobility of atoms and molecules at surfaces Molecular level studies on the origin of the selectivity for several catalytic reactions A microscopic understanding of mechanical properties of surfaces Updated tables of experimental data A new chapter on soft surfaces polymers and biointerfaces Introduction to Surface Chemistry and Catalysis serves as a textbook for undergraduate and graduate students taking advanced courses in physics chemistry engineering and materials science as well as researchers in surface science catalysis science and their applications

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

Chemisorption and Reactivity on Supported Clusters and Thin Films: R.M. Lambert, Gianfranco Pacchioni, 2013-04-17 Heterogeneous catalysis provides the backbone of the world's chemical and oil industries The innate complexity of practical catalytic systems suggests that useful progress should be achievable by investigating key aspects of catalysis by experimental studies on idealised model systems Thin films and supported clusters are two promising types of model system that can be used for this purpose since they mimic important aspects of the properties of practical dispersed catalysts Similarly appropriate theoretical studies of chemisorption and surface reaction clusters or extended slab systems can provide valuable information on the factors that underlie bonding and catalytic activity This volume describes such experimental and theoretical approaches to the surface chemistry and catalytic behaviour of metals metal oxides and metal metal oxide systems An introduction to the principles and main themes of heterogeneous catalysis is followed by detailed accounts of the application of modern experimental and theoretical techniques to fundamental problems The application of advanced experimental methods is complemented by a full description of theoretical procedures including Hartree Fock density functional and similar techniques The relative merits of the various approaches are considered and directions for future progress are indicated

Catalysis with Supported Size-selected Pt Clusters Florian Frank Schweinberger, 2013-11-01 In his thesis Florian Schweinberger investigates the influence of the precise size of catalytically active species on reactivity In order to do this he carries out studies both in UHV and under ambient conditions for supported size selected Platinum clusters 8 68 atoms Schweinberger probed the electronic structure adsorption properties and reactivity of two olefins on surfaces and Pt clusters in the submonolayer range With adsorbed trichloroethene TCE a possible cluster adsorbate induced change in the electronic structure and for ethene a low temperature size dependent self hydrogenation was observed In a collaborative approach Schweinberger and colleagues investigated Pt clusters under ambient pressure conditions They characterised the clusters at the local and integral level and tested for temperature stability Experiments in gas phase reactors and in liquid as part of a hybrid photocatalytic system revealed size dependent reactivity Overall this thesis is not only of interest for those who want to perform similar experiments but also provides superb scientific insights for researchers in the field

W Tungsten, 2013-11-11 The present supplement volume A 7 is the first of a triad A 5 to A 7 dealing with the chemical reactions of metallic tungsten It describes the reactions with inorganic and organic compounds except for formation reactions of organotungsten compounds Volume A

6 to appear at the beginning of 1988 will cover the reactions of tungsten with metallic elements Volume A 5 in preparation for 1988 89 will contain the reactions with nonmetallic elements and in addition cover the electrochemistry of tungsten With the appearance of this last volume the present knowledge of the chemistry of tungsten will be compiled in more than 1000 pages In the Gmelin main volume on tungsten published in 1933 the presentation of the information then available on the same subject required less than 6 pages This enormous increase in relevant data over the last fifty years is stupefying considering the fact that tungsten is a rather inert metal which is resistant to most chemical agents up to high temperatures With a few exceptions in fact it was not so much the reactions of bulk tungsten which attracted the interest of the experimenters as the reactions taking place at its surface This comes about for practical as well as scientific reasons

Two-Dimensional Crystals A. G. Naumovets, 2012-12-02 This is a self contained tutorial introduction to two dimensional crystal science and technology Including concise descriptions of experimental methods and results from fundamental theoretical concepts this book covers a broad range of two dimensional structures from overlayers to freestanding films All those with an active interest in surface science and statistical physics will find this book to be an essential reference work Presents a coherent overview of experimental methods and theoretical background of two dimensional crystal physics Provides a tutorial overview of continuous melting of two dimensional crystals roughening transitions wetting phenomena and commensurate incommensurate transitions Metal-Ligand Interactions in Chemistry, Physics and Biology N. Russo, Dennis R. Salahub, 2012-12-06 Proceedings of the NATO Advanced Study Institute held in Cetraro CS Italy from 1 12 September 1998 The Chemical Physics of Solid Surfaces and Heterogeneous Catalysis David Anthony King, D. P. Woodruff, 1984 Proceedings of the 9th International Conference on X-Ray Absorption Fine Structure, 26-30 August, 1996, Grenoble, France José Goulon, N. B. Brookes, C. Goulon-Ginet, 1997 **Electron Stimulated Surface Chemistry Studied by Scanning Tunneling Microscopy** Raynard Yuro, 1997 Low Temperature Carbon Monoxide Oxidation Over Gold Supported on Iron Oxide Catalysts Chien Sze, 1995 **Sensors and Actuators** S. Middelhoek, J. van der Spiegel, 1987

Surface and Near-surface Chemistry of Oxide Materials Janusz Nowotny, Louis-Claude Dufour, 1988 The aim of this book is to fill the gap in the scientific literature by providing a comprehensive overview on the surface and near surface chemistry of oxide materials Oxide materials are important in a wide range of technological applications which has resulted in a large bibliography devoted to their properties The range of practical applications of metal oxides has recently been significantly extended by the discovery of high T_c oxide superconductors Surface chemistry overlaps with several other disciplines and involves some specialized physical methods therefore renowned scientists active in various fields were invited to contribute to the book The present volume involves surface characterization of metal oxides as well as surface and near surface phenomena including gas solid solid solid and liquid solid interphases Both basic problems and applied aspects are covered The theoretical background of ideal and real surfaces as well as surface phenomena such as adsorption segregation

interphase interactions equilibration etc are dealt with A comprehensive description is given of the most useful experimental techniques for studying surface and near surface grain boundary chemistry of ceramic materials oxide catalysts semiconductors and other oxide materials of practical importance The range of practical applications of metal oxides has recently been significantly extended by the discovery of high T_c oxide superconductors A special chapter is devoted to High T_c oxide superconductors which provides an up to date and thorough review of this currently hot topic which will be of great interest to a wide section of the scientific community

International Books in Print ,1997 **Gmelin Handbook of Inorganic Chemistry** ,1986 Handbook of Thermal Analysis and Calorimetry Michael E. Brown,Patrick K.

Gallagher,2003-12-08 This is the second volume of a four volume set intended to describe the techniques and applications of thermoanalytical and calorimetric methods The general techniques and methodology are covered extensively in Volume 1 along with the fundamental physicochemical background needed Consequently the subsequent volumes dwell on the applications of these powerful and versatile methods while assuming a familiarity with the techniques Volume 2 covers major areas of inorganic materials and some related general topics e g catalysis geochemistry and the preservation of art The chapters are written by established practitioners in the field with the intent of presenting a sampling of the how thermoanalytical and calorimetric methods have contributed to progress in their respective areas The chapters are not intended as exhaustive reviews of the topics but rather to illustrate to the readers what has been achieved and to encourage them to consider extending these applications further into their domains of interest Provides an appreciation for how thermal methods can be applied to inorganic materials and processes Provides an insight into the versatility of thermal methods Shares the experiences of experts in a variety of different fields A valuable reference source covering a huge area of materials coverage Forthcoming Books Rose Arny,1984-03

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