

Springer Series in Surface Sciences 34

R. J. Madix (Ed.)

Surface Reactions



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DJ Losen



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Surface Science Kurt W. Kolasinski, 2020-01-07 An updated fourth edition of the text that provides an understanding of chemical transformations and the formation of structures at surfaces The revised and enhanced fourth edition of *Surface Science* covers all the essential techniques and phenomena that are relevant to the field The text elucidates the structural dynamical thermodynamic and kinetic principles concentrating on gas solid and liquid solid interfaces These principles allow for an understanding of how and why chemical transformations occur at surfaces The author a noted expert on in the field combines the required chemistry physics and mathematics to create a text that is accessible and comprehensive The fourth edition incorporates new end of chapter exercises the solutions to which are available on line to demonstrate how problem solving that is relevant to surface science should be performed Each chapter begins with simple principles and builds to more advanced ones The advanced topics provide material beyond the introductory level and highlight some frontier areas of study This updated new edition Contains an expanded treatment of STM and AFM as well as super resolution microscopy Reviews advances in the theoretical basis of catalysis and the use of activity descriptors for rational catalyst design Extends the discussion of two dimensional solids to reflect remarkable advances in their growth and characterization Delves deeper into the surface science of electrochemistry and charge transfer reactions Updates the Frontiers and Challenges sections at the end of each chapter as well as the list of references Written for students researchers and professionals the fourth edition of *Surface Science* offers a revitalized text that contains the tools and a set of principles for understanding the field Instructor support material solutions and PPTs of figures are available at <http://booksupport.wiley.com> *Computational Methods in Surface and Colloid Science* Malgorzata Borowko, 2019-04-23 This volume presents computer simulation methods and mathematical modelling of physical processes used in surface science research It offers in depth analysis of advanced theoretical approaches to behaviours of fluids in contact with porous semiporous and nonporous solid surfaces The book also explores interfacial systems for a wide variety of p *Surface Dynamics* , 2003-11-07 While much of traditional surface science has been concerned with equilibrium properties and simple kinetics there is a growing effort in the area of dynamical processes at surfaces This book draws together a series of chapters written by acknowledged experts in the field which describe progress in a range of specific topics The emphasis is on chemical reaction dynamics including both theoretical and experimental approaches and covering work on low index single crystal surfaces on stepped surfaces and on supported metal clusters Other processes such as surface diffusion are also addressed Further chapters discuss dynamical processes in electronically induced desorption and in surface diffusion on semiconductors and metals Presents considerable advances in surface science field Collection of expert reviews in surface dynamics *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 **Phase Transitions and Adsorbate Restructuring at Metal Surface** D.A. King,D.P.

Woodruff,2012-12-02 The objective in initiating this series in 1980 was to provide an in depth review of advances made in the understanding key aspects of surface chemistry and physics through the application of new techniques to the study of well defined surfaces Since then the field of surface science has greatly matured and further important techniques particularly scanning probe microscopies have been successfully assimilated into the applications armoury of the surface scientist The present volume is a series of timely reviews by many of the current experts in the field of phase transitions and adsorbate induced surface restructuring No aspect of the science of solid surfaces can be fully understood without accounting for the structural diversity of surfaces now revealed in atomic detail by techniques based on diffraction and scanning probe microscopies For example it is now clear to those working in heterogeneous catalysis that adsorbate induced restructuring of surfaces can play a critical role in phenomena such as bistability kinetic oscillations and promotion and poisoning Structural transitions at surfaces can also play a key role in determining the electronic properties of surfaces reviewed in volume 5

Comprehensive Handbook of Chemical Bond Energies Yu-Ran Luo,2007-03-09 Understanding the energy it takes to build or break chemical bonds is essential for scientists and engineers in a wide range of innovative fields including catalysis nanomaterials bioengineering environmental chemistry and space science Reflecting the frequent additions and updates of bond dissociation energy BDE data throughout the literature the Comprehensive Handbook of Chemical Bond Energies compiles the most recent experimental BDE data for more than 19 600 bonds of 102 elements The author organizes the data by bond type functional group bond order bond degree molecular size and structure for ease of use Data can also be located using the Periodic table The book presents data for organic molecules biochemicals and radicals as well as clusters ions hydrogen and surface bonded species van der Waals complexes isotopic species and halogen clusters complexes It also introduces entirely new data for inorganics and organometallics The final chapter summarizes the heats of formation for atoms inorganic organic radicals and monoatomic ions in the gas phase The Comprehensive Handbook of Chemical Bond Energies offers quick access to experimental BDE data in the most inclusive well organized and up to date collection available today **Handbook of Solid State Chemistry, 6 Volume Set** Richard Dronskowski,Shinichi Kikkawa,Andreas Stein,2017-10-23 This most comprehensive and unrivaled compendium in the field provides an up to date account of the

chemistry of solids nanoparticles and hybrid materials Following a valuable introductory chapter reviewing important synthesis techniques the handbook presents a series of contributions by about 150 international leading experts the Who s Who of solid state science Clearly structured in six volumes it collates the knowledge available on solid state chemistry starting from the synthesis and modern methods of structure determination Understanding and measuring the physical properties of bulk solids and the theoretical basis of modern computational treatments of solids are given ample space as are such modern trends as nanoparticles surface properties and heterogeneous catalysis Emphasis is placed throughout not only on the design and structure of solids but also on practical applications of these novel materials in real chemical situations

AFOSR Chemical & Atmospheric Sciences Program Review United States. Air Force. Directorate of Chemical and Atmospheric Sciences, 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 *Catalysis and Electrocatalysis at Nanoparticle Surfaces* Andrzej Wieckowski,Elena R. Savinova,Constantinos G. Vayenas,2003-02-19 Illustrating developments in electrochemical nanotechnology heterogeneous catalysis surface science and theoretical modelling this reference describes the manipulation characterization control and application of nanoparticles for enhanced catalytic activity and selectivity It also offers experimental and synthetic strategies in nanoscale surface science This standard setting work clarifies several practical methods used to control the size shape crystal structure and composition of nanoparticles simulate metal support interactions predict nanoparticle behavior enhance catalytic rates in gas phases and examine catalytic functions on wet and dry surfaces **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

Laser Spectroscopy and Photochemistry on Metal Surfaces Hai-Lung Dai,1995 Using lasers to induce and probe surface processes has the advantages of quantum state specificity species selectivity surface sensitivity fast time resolution high frequency resolution and accessibility to full pressure ranges These advantages make it highly desirable to use light to induce control or monitor surface chemical and physical processes Recent applications of laser based techniques in studying surface processes have stimulated new developments and enabled the understanding of fundamental problems in energy transfer and reactions This volume will include discussions on spectroscopic techniques energy transfer desorption dynamics and photochemistry

Laser Spectroscopy And Photochemistry On Metal Surfaces (In 2 Parts) - Part 2 Hai-lung Dai,Wilson Ho,1995-12-16 Using lasers to induce and probe surface processes has the advantages of quantum state specificity species selectivity surface sensitivity fast time resolution high frequency resolution and accessibility to full pressure ranges These advantages make it highly desirable to use light to induce control or monitor surface chemical and physical processes Recent applications of laser based techniques in studying surface processes have stimulated new developments and enabled the understanding of fundamental problems in energy transfer and reactions This volume will include discussions on spectroscopic techniques energy transfer desorption dynamics and photochemistry Third World Congress on Oxidation Catalysis S.T. Oyama,A.M. Gaffney,J.E. Lyons,R.K. Grasselli,1997-09-12 The overall theme of the 3rd World Congress is Atom Efficient Catalytic Oxidations for Global Technologies This theme was chosen to stimulate the

participants to report their findings with an emphasis on conserving valuable material in their catalytic transformations as well as conserving energy in an environmentally responsible manner Progress towards this stated goal is substantial as evidenced by the tremendous response of the community in their participation of quality publications compiled in these Proceedings of the Congress The subjects presented span a wide range of oxidation reactions and catalysts These include the currently important area of lower alkane oxidation to the corresponding olefins unsaturated aldehydes acids and nitriles The four featured lectures and seven plenary lectures constitute the general background and overview of the subject matter at hand The 104 contributed papers and 13 poster manuscripts summarized in this compendium probe new avenues to achieve catalytically efficient oxidation reactions for the future needs of mankind in a global environment

Fundamentals of Interface and Colloid Science J. Lyklema, 1995-10-17 Interface and colloid science is an important though often under valued branch of science It has applications and ramifications in domains as disparate as agriculture mineral dressing oil recovery chemical industry biotechnology medical science and many more Proper application of interface and colloid science requires factual knowledge and insight into the many basic laws of physics and chemistry upon which it is based Fundamentals of Interface and Colloid Science is the first book to cover this field in the depth necessary to be a valuable reference and an excellent textbook From the beginning to the end of the book systems of growing complexity are treated gradually The presentation is particularly suited to emphasize that interfaces are not autonomous phases As a rule interfacial properties can be varied only by changing the adjoining phases so that the properties of these bulk phases must be understood first The text also recognizes common principles behind a variety of phenomena and helps the reader to understand them and to develop and improve processes The systematic treatment of the material in the book makes this clear and makes the text itself an important contribution to the field Systematic treatment of information An excellent addition to volume I Two chapters contributed by other experts in the field Uses a deductive approach to increase the order of complexity Written by a leading expert in the field Two chapters contributed by other outstanding scientists Uses a systematic and deductive approach First comprehensive review of the topic

Polymer Surface Modification: Relevance to Adhesion, Volume 2 Kash L. Mittal, 2023-01-06 This book chronicles the proceedings of the Second International Symposium on Polymer Surface Modification Relevance to Adhesion held Newark New Jersey May 24 26 1999 Polymeric materials are intrinsically not very adhesionable and this necessitates their surface treatment to enhance their adhesion characteristics to other materials Since the first symposium on this topic held in 1993 there has been a tremendous R Part 2 Other Miscellaneous Surface Modification Techniques and Part 3 General Papers The topics covered include plasma surface modification of a variety of polymers using various plasma gases atmospheric plasma system surface functionalization ultrahydrophobic polymeric surfaces metallization of plasma treated polymers surface modification of polymers via molecular design for adhesion promotion wet chemical methods for polymer surface modification laser surface modification of various

polymers UV ozone treatment surface and interface studies of treated polymer surfaces by an array of techniques bioadhesion of polymeric biomaterials to tissue polymer fiber systems and plasma deposited coatings Soviet Physics, 1992 21st Century Nanoscience Klaus D. Sattler, 2022-01-18 This 21st Century Nanoscience Handbook will be the most comprehensive up to date large reference work for the field of nanoscience Handbook of Nanophysics by the same editor published in the fall of 2010 was embraced as the first comprehensive reference to consider both fundamental and applied aspects of nanophysics This follow up project has been conceived as a necessary expansion and full update that considers the significant advances made in the field since 2010 It goes well beyond the physics as warranted by recent developments in the field Key Features Provides the most comprehensive up to date large reference work for the field Chapters written by international experts in the field Emphasises presentation and real results and applications This handbook distinguishes itself from other works by its breadth of coverage readability and timely topics The intended readership is very broad from students and instructors to engineers physicists chemists biologists biomedical researchers industry professionals governmental scientists and others whose work is impacted by nanotechnology It will be an indispensable resource in academic government and industry libraries worldwide The fields impacted by nanoscience extend from materials science and engineering to biotechnology biomedical engineering medicine electrical engineering pharmaceutical science computer technology aerospace engineering mechanical engineering food science and beyond 21st Century Nanoscience - A Handbook Klaus D. Sattler, 2020-11-26 21st Century Nanoscience A Handbook Nanophotonics Nanoelectronics and Nanoplasmonics Volume 6 will be the most comprehensive up to date large reference work for the field of nanoscience Handbook of Nanophysics by the same editor published in the fall of 2010 and was embraced as the first comprehensive reference to consider both fundamental and applied aspects of nanophysics This follow up project has been conceived as a necessary expansion and full update that considers the significant advances made in the field since 2010 It goes well beyond the physics as warranted by recent developments in the field This sixth volume in a ten volume set covers nanophotonics nanoelectronics and nanoplasmonics Key Features Provides the most comprehensive up to date large reference work for the field Chapters written by international experts in the field Emphasises presentation and real results and applications This handbook distinguishes itself from other works by its breadth of coverage readability and timely topics The intended readership is very broad from students and instructors to engineers physicists chemists biologists biomedical researchers industry professionals governmental scientists and others whose work is impacted by nanotechnology It will be an indispensable resource in academic government and industry libraries worldwide The fields impacted by nanophysics extend from materials science and engineering to biotechnology biomedical engineering medicine electrical engineering pharmaceutical science computer technology aerospace engineering mechanical engineering food science and beyond

Modern Heterogeneous Catalysis Rutger A. van Santen, 2017-02-15 Written by one of the world's leading experts on

the topic this advanced textbook is the perfect introduction for newcomers to this exciting field Concise and clear the text focuses on such key aspects as kinetics reaction mechanism and surface reactivity concentrating on the essentials The author also covers various catalytic systems catalysis by design and activation deactivation A website with supplementary material offers additional figures original material and references

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