

Springer Series in Surface Sciences 27

E. Hulpke (Ed.)

Helium Atom Scattering from Surfaces



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E. Hulpke



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Helium Atom Scattering from Surfaces E. Hulpke, 2013-03-14 High resolution helium atom scattering can be applied to study a number of interesting properties of solid surfaces with great sensitivity and accuracy This book treats in detail experimental and theoretical aspects of this method as well as all current applications in surface science The individual chapters all written by experts in the field are devoted to the investigation of surface structure defect shapes and concentrations the interaction potential collective and localized surface vibrations at low energies phase transitions and surface diffusion Over the past decade helium atom scattering has gained widespread recognition within the surface science community Points in its favour are comprehensive understanding of the scattering theory and the availability of well tested approximation to the rigorous theory This book will be invaluable to surface scientists wishing to make an informed judgement on the actual and potential capabilities of this technique and its results

Springer Handbook of Surface Science Mario Rocca, Talat Rahman, Luca Vattuone, 2021-01-14 This handbook delivers an up to date comprehensive and authoritative coverage of the broad field of surface science encompassing a range of important materials such as metals semiconductors insulators ultrathin films and supported nanoobjects Over 100 experts from all branches of experiment and theory review in 39 chapters all major aspects of solid state surfaces from basic principles to applications including the latest ground breaking research results Beginning with the fundamental background of kinetics and thermodynamics at surfaces the handbook leads the reader through the basics of crystallographic structures and electronic properties to the advanced topics at the forefront of current research These include but are not limited to novel applications in nanoelectronics nanomechanical devices plasmonics carbon films catalysis and biology The handbook is an ideal reference guide and instructional aid for a wide range of physicists chemists materials scientists and engineers active throughout academic and industrial research

Theoretical Surface Science Axel Groß, 2009-09-16 Progress continues in the theoretical treatment of surfaces and processes on surfaces based on first principles methods 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 together with a detailed discussion of surface phenomena This makes the book suitable for both graduate students and for experimentalists seeking an overview of the theoretical concepts in surface science This second enlarged edition has been carefully revised and updated a new chapter on surface magnetism is included and novel developments in theoretical surface science are addressed

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.

Physics and Engineering of New Materials Do Tran Cat, Annemarie Pucci, Klaus Rainer Wandelt, 2009-01-01. This book presents the majority of the contributions to the Tenth German Vietnamese Seminar on Physics and Engineering (GVS10) that took place in the Gustav Stresemann Institut (GSI) in Bonn from June 6 to June 9, 2007. In the focus of these studies are the preparation and basic properties of new material systems, related investigation methods, and practical applications. Accordingly, the sections in this book are entitled: electrons, transport and confinement, low dimensional systems, magnetism, oxidic materials, organic films, new materials and methods. The series of German Vietnamese seminars was initiated and sponsored by the Gottlieb Daimler and Karl Benz Foundation since 1998 and took place alternately in both countries. These bilateral meetings brought together top notch senior and junior Vietnamese scientists with German Scientists and stimulated many contacts and co-operations. Under the general title Physics and Engineering, the programs covered in the form of keynote lectures, oral presentations, and posters, experimental and theoretical, cutting edge material physics oriented topics. The majority of the contributions was dealing with modern topics of material science, particularly nanoscience, which is a research field of high importance also in Vietnam. Modern material science allows a quick transfer of research results to technical applications, which is very useful for fast developing countries like Vietnam. On the other hand,

the seminars took profit from the strong cross fertilization of the different disciplines of physics This book is dedicated to the tenth anniversary of the seminars and nicely shows the scientific progress in Vietnam and the competitive level reached

Surface Diffusion Grazyna Antczak, Gert Ehrlich, 2010-06-10 For the first time this book unites the theory experimental techniques and computational tools used to describe the diffusion of atoms molecules and nanoparticles across metal surfaces Starting with an outline of the formalism that describes diffusion on surfaces the authors guide the reader through the principles of atomic movement before moving on to diffusion under special circumstances such as the presence of defects or foreign species With an initial focus on the behaviour of single entities on a surface later chapters address the movement of clusters of atoms and the interactions between adatoms While there is a special emphasis on experimental work attention is paid to the increasingly valuable contributions theoretical work has made in this field This book has wide interdisciplinary appeal and is ideal for researchers in solid state physics chemistry as well as materials science and engineering **The**

Journal of Chemical Physics ,2003 **Surfaces and Interfaces of Solid Materials** Hans Lüth, 2013-03-09 Surfaces and Interfaces of Solid Materials emphasises 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

Helium Atom Scattering from Surfaces E. Hulpke, 1992-06-11 High resolution helium atom scattering can be applied to study a number of interesting properties of solid surfaces with great sensitivity and accuracy This book treats in detail experimental and theoretical aspects of this method as well as all current applications in surface science The individual chapters all written by experts in the field are devoted to the investigation of surface structure defect shapes and concentrations the interaction potential collective and localized surface vibrations at low energies phase transitions and surface diffusion Over the past decade helium atom scattering has gained widespread recognition within the surface science community Points in its favour are comprehensive understanding of the scattering theory and the availability of well tested approximation to the rigorous theory This book will be invaluable to surface scientists wishing to make an informed judgement on the actual and potential capabilities of this technique and its results Physics Briefs ,1994 *Science* John

Michels (Journalist), 2011 **International Books in Print** ,1986 **Jahrbuch der Heidelberger Akademie der Wissenschaften** Heidelberger Akademie der Wissenschaften, 1998 **Forthcoming Books** Rose Arny, 1993 **W Tungsten** Gerhard Czack, Gerhard Kirschstein, Wolfgang Kurtz, Frank Stein, 2013-06-29 The volume describes physical properties of tungsten metal and covers specifically surface properties electron emission and field evaporation Tungsten

surfaces are probably the most extensively studied metal surfaces Recently experimentalists and theorists have focussed their interest on the atomic structure lattice dynamics and electronic properties of the W 100 surface While the structure of the reconstructed low temperature surface is well established there are still unresolved problems concerning the structure at and above room temperature the nature of the phase transition and the driving force for the reconstruction There are numerous and partly conflicting data on the surface energy the self diffusion parameters and the work function of single crystal and polycrystal tungsten surfaces Electron emission which is of fundamental importance for many applications comprises thermionic field photofield and photoelectric emission as well as emission induced by impinging electrons atoms or ions Pioneering work in areas like thermionic or field emission is comprehensively discussed Very recent studies of valence band and core level spectra moreover provide detailed information on intrinsic surface properties

Subject Guide to Books in Print ,1975 *Encyclopedia of Interfacial Chemistry* ,2018-03-29 Encyclopedia of Interfacial Chemistry Surface Science and Electrochemistry Seven Volume Set summarizes current fundamental knowledge of interfacial chemistry bringing readers the latest developments in the field As the chemical and physical properties and processes at solid and liquid interfaces are the scientific basis of so many technologies which enhance our lives and create new opportunities its important to highlight how these technologies enable the design and optimization of functional materials for heterogeneous and electro catalysts in food production pollution control energy conversion and storage medical applications requiring biocompatibility drug delivery and more This book provides an interdisciplinary view that lies at the intersection of these fields Presents fundamental knowledge of interfacial chemistry surface science and electrochemistry and provides cutting edge research from academics and practitioners across various fields and global regions

Metal Clusters at Surfaces Karl-Heinz Meiwes-Broer,2012-12-06 Numerous experiments and calculations have shown that isolated metal clusters possess many interesting features quite different from those known from surface and solid state physics or from atomic and molecular physics The technological exploitation of these new properties e g in miniature electronic or mechanical components requires the cluster to be brought into an environment such as an encapsulating matrix or a surface Due to the interaction with the contact medium the properties of the clusters may change or even disappear Thus the physics of cluster on surface systems the main subject of this book is of fundamental importance The book addresses a wide audience from the newcomer to the expert Starting from fundamental concepts of adsorbate surface interactions the modification of electronic properties through electron confinement and concepts of cluster production it elucidates the distinct properties of the new metallic nanostructures

The Structure of Surfaces M.A. Van Hove,S.Y. Tong,2012-12-06 Bulletin of the Korean Chemical Society ,2006

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