

**Springer Series in Surface Sciences 14**

**Solvay Conference  
on  
Surface Science**

**Edited by F. W. de Wette**



**Springer-Verlag**

# Solvay Conference On Surface Science

**E. Hirota, H. Sakakima, K. Inomata**



## **Solvay Conference On Surface Science:**

Solvay Conference on Surface Science Frederick W. de Wette, 2012-12-06 The articles collected in this volume give a broad overview of the current state of surface science. Pioneers in the field and researchers met together at this Solvay Conference to discuss important new developments in surface science with an emphasis on the common area between solid state physics and physical chemistry. The contributions deal with the following subjects: structure of surfaces, surface science and catalysis, two dimensional physics and phase transitions, scanning tunneling microscopy, surface scattering and surface dynamics, chemical reactions at surfaces, solid solid interfaces and superlattices and surface studies with synchrotron radiation. On each of these subjects an introductory review talk and a number of short research contributions are followed by extensive discussions which appear in full in the text. This nineteenth Solvay Conference commemorates the 75th anniversary of the Solvay Institutes.

Solvay Conference on Surface Science, 1988 **Scientific and Technical Aerospace Reports**, 1988 *Atomic and Electronic Structure of Surfaces* Michel Lannoo, Paul Friedel, 2013-03-14 Surfaces and interfaces play an increasingly important role in today's solid state devices. In this book the reader is introduced in a didactic manner to the essential theoretical aspects of the atomic and electronic structure of surfaces and interfaces. The book does not pretend to give a complete overview of contemporary problems and methods. Instead the authors strive to provide simple but qualitatively useful arguments that apply to a wide variety of cases. The emphasis of the book is on semiconductor surfaces and interfaces but it also includes a thorough treatment of transition metals, a general discussion of phonon dispersion curves and examples of large computational calculations. The exercises accompanying every chapter will be of great benefit to the student.

**Semiconductor Surfaces and Interfaces** Winfried Mönch, 2013-03-09 *Semiconductor Surfaces and Interfaces* deals with structural and electronic properties of semiconductor surfaces and interfaces. The first part introduces the general aspects of space charge layers of clean surface and adatom induced surface states and of interface states. It is followed by a presentation of experimental results on clean and adatom covered surfaces which are explained in terms of simple physical and chemical concepts and models. Where available results of more refined calculations are considered. A final chapter is devoted to the band lineup at semiconductor interfaces.

*Applications of Synchrotron Radiation* Wolfgang Eberhardt, 2012-12-06 Applications of synchrotron radiation in physics, chemistry, materials science and biology has now matured from an exotic experimental field into a well established area of science. The spectroscopy of molecules and molecular adsorbates on surfaces is one area of science where in the past synchrotron radiation related studies had made an impact on understanding the ground state properties as well as the dynamics. With the new high brightness synchrotron radiation sources ahead this will certainly continue to be a field of very active research. This quasi monograph reviews the current state of the field for both the active research scientist and the new graduate student wishing to become acquainted with this field of research.

Electronic Properties of Semiconductor Interfaces Winfried Mönch, 2013-04-17 Almost all

semiconductor devices contain metal semiconductor insulator semiconductor insulator metal and or semiconductor semiconductor interfaces and their electronic properties determine the device characteristics This is the first monograph that treats the electronic properties of all different types of semiconductor interfaces Using the continuum of interface induced gap states IFIGS as a unifying theme M nch explains the band structure lineup at all types of semiconductor interfaces These intrinsic IFIGS are the wave function tails of electron states which overlap a semiconductor band gap exactly at the interface so they originate from the quantum mechanical tunnel effect He shows that a more chemical view relates the IFIGS to the partial ionic character of the covalent interface bonds and that the charge transfer across the interface may be modeled by generalizing Pauling s electronegativity concept The IFIGS and electronegativity theory is used to quantitatively explain the barrier heights and band offsets of well characterized Schottky contacts and semiconductor heterostructures respectively

Islands, Mounds and Atoms Thomas Michely, Joachim Krug, 2012-12-06 Crystal growth far from thermodynamic equilibrium is nothing but homoepitaxy thin film growth on a crystalline substrate of the same material Because of the absence of misfit effects homoepitaxy is an ideal playground to study growth kinetics in its pure form Despite its conceptual simplicity homoepitaxy gives rise to a wide range of patterns This book explains the formation of such patterns in terms of elementary atomic processes using the well studied Pt Pt 111 system as a reference point and a large number of Scanning Tunneling Microscopy images for visualization Topics include surface diffusion nucleation theory island shapes mound formation and coarsening and layer by layer growth A separate chapter is dedicated to describing the main experimental and theoretical methods The text is aimed at physicists with an interest in growth kinetics surface scientists graduate students and practitioners of thin film deposition **Giant Magneto-Resistance Devices** E. Hirota, H. Sakakima, K.

Inomata, 2013-03-09 In the last decade after the discovery of giant magnetoresistance effects in metallic multilayers worldwide developments in basic research and in engineering applications have been achieved and various remarkable results have been obtained in both fields On the basic research into the GMR effects an excellent review book edited by Hartmann was published in 1999 entitled Magnetic Multilayers and Giant Magnetoresistance and it describes the experimental and theoretical aspects of GMR studies and the magneto optics in metallic multilayers including applications in electronic data storage fields This book aims to give an overview on the electronics applications of the GMR in metallic multilayers especially on the sensors and memories in magnetic data storage the main concerns of electronic engineers If the mean free path of conduction electrons is longer than the period of the multilayer and for a low applied magnetic field magnetizations in the adjacent magnetic layers are in antiparallel the GMR effect in magnetic metallic multilayers occurs due to the resistance change in the electric current flowing in the layer plane with a change in the magnetization from antiparallel to parallel alignment by an applied magnetic field CIP mode i e in the saturation field magnetizations are in parallel and the resistance is lowered The saturation field  $H$  is given by the RKKY like magnetic coupling between adjacent

magnetic layers through a nonmagnetic conductive layer between the layers

**Scanning Tunneling Microscopy II**  
Roland Wiesendanger, Hans-Joachim Güntherodt, 2013-03-08 Scanning Tunneling Microscopy II like its predecessor presents detailed and comprehensive accounts of the basic principles and the broad range of applications of STM and related scanning probe techniques The applications discussed in this volume come predominantly from the fields of electrochemistry and biology In contrast to those in STM I these studies may be performed in air and in liquids The extensions of the basic technique to map other interactions are described in chapters on scanning force microscopy magnetic force microscopy and scanning near field optical microscopy together with a survey of other related techniques Also discussed here is the use of a scanning proximal probe for surface modification Together the two volumes give a comprehensive account of experimental aspects of STM and provide essential reading and reference material In this second edition the text has been updated and new methods are discussed

*NEXAFS Spectroscopy* Joachim Stöhr, 2013-04-17 The purpose of this book is the development of the principles and experimental techniques underlying near edge X ray absorption fine structure NEXAFS spectroscopy and the demonstration of the power of the technique for the study of the electronic and crystallographic structure of low Z molecules bonded to surfaces Low Z molecules are defined as those consisting of hydrogen carbon nitrogen oxygen and or fluorine atoms which are particularly important in surface chemistry This book is the first comprehensive treatment of the subject and presents a unified picture of theoretical and experimental concepts and results It develops all concepts from an elementary level and is suitable for students and researchers without extensive prior knowledge in X ray absorption spectroscopy On the other hand it discusses state of the art instrumentation analysis techniques and experimental and theoretical results and is therefore also suited for the advanced spectroscopist The spectra of free molecules are discussed first since their understanding provides the basis for understanding spectra of molecules bonded to surfaces the main topic of the book The connection to spectra of polymeric molecules is also made The book may therefore be of interest not only to surface scientists but also to researchers studying free molecules or polymers The various molecular adsorption systems studied by NEXAFS are tabulated Future scientific opportunities making use of the NEXAFS technique in conjunction with advanced synchrotron radiation sources are also discussed These range from element specific microscopy studies of solid surfaces to studies of molecular conformations at liquid surfaces

Portola Valley CA J *Kinetics of Metal-Gas Interactions at Low Temperatures* Eckehard Fromm, 2012-12-06 Kinetics of Metal Gas Interactions at Low Temperatures is devoted to the formation of a natural oxide film This few nm thick surface layer is produced instantaneously if oxygen or water vapor is present in the gas atmosphere It is responsible for the corrosion behavior for wear and friction of metallic materials as well as for hydrogen embrittlement or poisoning of catalytic surface reactions Oxidation impedes experiments in surface sciences and production processes in modern thin film technology It can reliably be avoided only if expensive ultra high vacuum techniques are applied This monograph presents an introduction to the subject in a tutorial

style It demonstrates how complex metal gas interactions can be analyzed by standard procedures of chemical kinetics

*Magnetic Multilayers and Giant Magnetoresistance* U. Hartmann,2013-03-14 Magnetic multilayers is a rapidly growing and multidisciplinary field of research The purpose of this book is to give a unified overview of recent progress giving special emphasis to the most important industrial applications A general introduction is followed by six chapters that describe a wide range of physical aspects together with experimental and theoretical methods Scientists and students alike will benefit from the comprehensive discussion of numerous devices and their physics As the technology matures these devices for example spin valves and magnetic random access memories are likely to become widely used

*Scanning Tunneling Microscopy III* Roland Wiesendanger,Hans-Joachim Güntherodt,2013-03-07 Scanning Tunneling Microscopy III provides a unique introduction to the theoretical foundations of scanning tunneling microscopy and related scanning probe methods The different theoretical concepts developed in the past are outlined and the implications of the theoretical results for the interpretation of experimental data are discussed in detail Therefore this book serves as a most useful guide for experimentalists as well as for theoreticians working in the field of local probe methods In this second edition the text has been updated and new methods are discussed

*Surface Phonons* Winfried Kress,Frederik W. de Wette,2013-11-11 In recent years substantial progress has been made in the detection of surface phonons owing to considerable improvements in inelastic rare gas scattering techniques and electron energy loss spectroscopy With these methods it has become possible to measure surface vibrations in a wide energy range for all wave vectors in the two dimensional Brillouin zone and thus to deduce the complete surface phonon dispersion curves Inelastic atomic beam scattering and electron energy loss spectroscopy have started to play a role in the study of surface phonons similar to the one played by inelastic neutron scattering in the investigation of bulk phonons in the last thirty years Detailed comparison between experimental results and theoretical studies of inelastic surface scattering and of surface phonons has now become feasible It is therefore possible to test and to improve the details of interaction models which have been worked out theoretically in the last few decades At this point we felt that a concise coherent and self contained guide to the rapidly growing field of surface phonons was needed

*Scanning Tunneling Microscopy I* Hans-Joachim Güntherodt,Roland Wiesendanger,2012-12-06 Scanning Tunneling Microscopy I provides a unique introduction to a novel and fascinating technique that produces beautiful images of nature on an atomic scale It is the first of three volumes that together offer a comprehensive treatment of scanning tunneling microscopy its diverse applications and its theoretical treatment In this volume the reader will find a detailed description of the technique itself and of its applications to metals semiconductors layered materials adsorbed molecules and superconductors In addition to the many representative results reviewed extensive references to original work will help to make accessible the vast body of knowledge already accumulated in this field

*Physics Briefs* ,1991 *Electronic Materials* James R. Chelikowsky,Alfonso Franciosi,2012-12-06 Modern materials science is exploiting novel tools of solid state

physics and chemistry to obtain an unprecedented understanding of the structure of matter at the atomic level. The direct outcome of this understanding is the ability to design and fabricate new materials whose properties are tailored to a given device application. Although applications of materials science can range from low weight high strength composites for the automobile and aviation industry to biocompatible polymers, in no other field has progress been more strikingly rapid than in that of electronic materials. In this area it is now possible to predict from first principles the properties of hypothetical materials and to construct artificially structured materials with layer by layer control of composition and microstructure. The resulting superlattices, multiple quantum wells and high temperature superconductors among others will dominate our technological future. A large fraction of the current undergraduate and graduate students in science and engineering will be directly involved in furthering the revolution in electronic materials. With this book we want to welcome such students to electronic materials research and provide them with an introduction to this exciting and rapidly developing area of study. A second purpose of this volume is to provide experts in other fields of solid state physics and chemistry with an overview of contemporary research within the field of electronic materials.

Quantum Theory Of Condensed Matter - Proceedings Of The 24th Solvay Conference On Physics Alexander Sevrin, Bertrand I Halperin, 2010-06-30. Ever since 1911 the Solvay Conferences have shaped modern physics. The 24th edition chaired by Bertrand Halperin did not break the tradition. Held in October 2008 it gathered in Brussels many of the leading figures in the quantum theory of condensed matter addressing some of the most profound open problems in the field. The proceedings contain the rapporteur talks giving a broad overview with unique insights by distinguished renowned scientists. These lectures cover the five sessions treating mesoscopic and disordered systems, exotic phases and quantum phase transitions in model systems, experimentally realized correlated electron materials, quantum Hall systems and one dimensional systems, systems of ultra cold atoms and advanced computational methods. In the Solvay tradition the proceedings include also the prepared comments to the rapporteur talks. The discussions among the participants, some of which are quite lively and involving dramatically divergent points of view, have been carefully edited and reproduced in full.

Chemistry and Physics of Solid Surfaces VIII Ralf Vanselow, Russell Howe, 2012-12-06. This volume contains review articles written by the invited speakers at the ninth International Summer Institute in Surface Science (ISISS) 1989 held at the University of Wisconsin Milwaukee in August of 1989. During the course of ISISS invited speakers, all internationally recognized experts in the various fields of surface science, present tutorial review lectures. In addition, these experts are asked to write review articles on their lecture topic. Former ISISS speakers serve as advisors concerning the selection of speakers and lecture topics. Emphasis is given to those areas which have not been covered in depth by recent Summer Institutes as well as to areas which have recently gained in significance and in which important progress has been made. Because of space limitations, no individual volume of Chemistry and Physics of Solid Surfaces can possibly cover the whole area of modern surface science or even give a complete survey of recent progress in

this field However an attempt is made to present a balanced overview in the series as a whole With its comprehensive literature references and extensive subject indices this series has become a valuable resource for experts and students alike The collected articles which stress particularly the gas solid interface have been published under the following titles Surface Science Recent Progress and Perspectives Crit Rev Solid State Sci



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