

Springer Series in Surface Sciences 14

Solvay Conference on Surface Science

Edited by F. W. de Wette



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Solvay Conference On Surface Science

Lingsheng Yao



Solvay Conference On Surface Science:

Solvay Conference on Surface Science, 1988 **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. **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. AFOSR Chemical & Atmospheric Sciences Program Review United States. Air

Force. Directorate of Chemical and Atmospheric Sciences, **Surfaces and Interfaces of Solids** Hans Lüth, 2013-11-27 Surfaces and Interfaces of Solids 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. **Solid Surfaces, Interfaces and Thin Films** Hans Lüth, 2013-04-17 This book emphasises both

experimental and theoretical aspects of surface, interface and thin film physics. Compared to the earlier editions which bore the title Surfaces and Interfaces of Solid Materials, the book now places more emphasis on thin films, including also their superconducting and ferromagnetic properties. The present 4th edition thus presents techniques of preparing well defined solid surfaces and interfaces, fundamental aspects of adsorption and layer growth as well as basic models for the description of structural, vibronic and electronic properties of surfaces, interfaces and thin films. Because of their importance for modern

describes the new undulator source and advanced monochromator technology which will see wide use in the **Adhesion and Friction** Michael Grunze, Hans J. Kreuzer, 1989-10-19 Adhesion and Friction Microscopic Concepts was the theme of the third workshop on interface phenomena organized jointly by the surface science groups at Dalhousie University and the University of Maine The first two workshops were dedicated to the discussion of elementary processes governing the reaction rates at surfaces and in bulk materials i.e. adsorption desorption and diffusion In this third year a step towards the understanding of complicated but practical issues such as adhesion and friction between different materials was undertaken The presentations and discussions focused on elementary chemical and physical processes at surfaces and interfaces relevant to adhesion lubrication and friction and gave an account of the application of surface science methods and techniques to relevant model systems Clearly at the time of the conference and the publication of the proceedings the understanding of the chemical and physical mechanisms determining the interaction between two solids is still rudimentary but the issues involved are attracting the attention of more and more scientists and are now regularly represented at scientific meetings The conference was held at Dalhousie University in Halifax Nova Scotia Canada The facilities provided an ideal setting for the meeting and lively discussions On behalf of the participants we would like to express our gratitude to the staff at Dalhousie University for making our stay so pleasant and memorable

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