

SPRINGER TRACTS IN MODERN PHYSICS

Volume 85

Solid Surface Physics

J. Hölzl and F. K. Schulte
Work Function of Metals

H. Wagner
Physical and Chemical Properties
of Stepped Surfaces



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Solid Surface Physics

Liying Dong



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Solid Surface Physics, 2006-04-11 **Solid Surface Physics** Springer, 2014-01-15 **Solid Surface Physics** Josef Hölzl, Franz K. Schulte, Heribert Wagner, 1979 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 Lectures On Solid Surfaces And Interfaces - Proceedings Of The International School On Surface Physics D S Wang, D H Shen, 1990-11-02 This proceedings contains 9 lectures given by active research scientists introducing the latest developments in the field of surface physics The main topics cover both experimental and theoretical aspects of the atomic and electronic structure of semiconductor surface its characterization by direct and inverse photoemission and STM chemisorption and bonding on semiconductor growth of III V compound semiconductor and metal surface metal semiconductor interface and metal silicides **Solid Surface Physics** Holz J., Introduction to the Theory of Solid Surfaces Federico Garcia-Moliner, Fernando Flores, 2009-06-25 First published in 1979 this is a self contained account of the theory of surface physics In drawing together many results only previously reported in research papers the authors emphasise basic disciplines such as electrodynamics and electron gas theory and demonstrate their application to simple models Connections between intuitive derivations and more rigorous formulations are explained and there is an extensive treatment of the general problem of matching at a surface as a mathematical formalism with a physical meaning Commonly recurring concepts such as surface modes Green functions and phase shifts link different parts of the book so giving coherence to the theory as a whole A good background in physics is assumed but no previous acquaintance with surface physics Starting from first principles the reader is led from elementary analysis to the level of current research literature The book is thus suitable for postgraduate students post doctoral workers or anyone wanting a systematic introduction to the field Chemistry and Physics of Solid Surfaces VII Ralf

Vanselow, Russell F. Howe, 2012-12-06 This volume contains review articles written by the invited speakers at the eighth International Summer Institute in Surface Science ISISS 1987 held at the University of Wisconsin Milwaukee in August of 1987 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 the 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 4 125 559 1974 Chemistry and Physics of Solid Surfaces Vols I II and III CRC Press Boca Raton FL 1976 1979 and 1982 Vols **Chemistry and Physics of Solid Surfaces VI** Ralf Vanselow, Russell Howe, 2012-12-06 This volume contains review articles which were written by the invited speakers of the seventh International Summer Institute in Surface Science ISISS held at the University of Wisconsin Milwaukee in July 1985 The form of ISISS is a set of tutorial review lectures presented over a one week period by internationally recognized experts on various aspects of surface science Each speaker is asked in addition to write a review article on his lecture topic No single volume in the series Chemistry and Physics of Solid Surfaces can possibly cover the entire field of modern surface science However the series as a whole is intended to provide experts and students alike with a comprehensive set of reviews and literature references particularly emphasizing the gas solid interface The collected articles from previous Summer Institutes have been published under the following titles Surface Science Recent Progress and Perspectives Crit Rev Solid State Sci 4 125 559 1974 Chemistry and Physics of Solid Surfaces Vols I II and III CRC Press Boca Raton FL 1976 1979 and 1982 Vols IV and V Springer Ser Chern Phys Vols 20 and 35 Springer Berlin Heidelberg 1982 and 1984 The field of catalysis which has provided the major impetus for the development of modern surface science lost two of its pioneers during 1984 and 1985 Professors G M Schwab 1899 1984 and p k Emmett 1900 1985 *The Chemical Physics of Surfaces* S. Morrison, 2012-12-06 At the present stage of development of surface science there has seemed to be a need for a book length review spanning the disciplines of surface physics and surface chemistry a review to summarize and show the connection between the observations from each discipline The various results and theories derived on the one hand from studies of the physical electronic and optical properties of surfaces and on the other hand from studies of the chemical activity of surfaces supplement each other in the search for a realistic model of the surface The improved understanding

possible with such an interdisciplinary approach has been confirmed by recent developments which cannot be classified as either surface chemistry or surface physics. Specifically, recent new experimental techniques and quantum mechanical models have provided a much more accurate picture of the nature of the electronic energy levels, bonding orbitals present at a solid surface. With this more accurate picture, we are now able to reconcile the various chemical and physical models that appeared in the early literature on surfaces. The objective of this work has therefore been to describe the results and current models of surface science, spanning a broad gray area between surface physics and surface chemistry, with some overlap into each of these disciplines. Relevant aspects of surface chemistry are discussed; we cover chemical interactions where bonding and electronic properties dominate but stop short of specialized topics such as surfactants or liquid-liquid interfaces.

Physics of Solid Surfaces, 1984 Jan Koukal, 1985 Preparation of Catalysts II [Solid Surfaces, Interfaces and Thin Films](#) Hans Lüth, 2001-09-11 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, vibrational and electronic properties of surfaces, interfaces and thin films. Because of their importance for modern information technology, significant attention is paid to the electronic properties of semiconductor interfaces and heterostructures. Collective phenomena such as superconductivity and ferromagnetism also feature prominently. Experimental sections covering essential measurement and preparation techniques are presented in separate panels.

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. Besides the techniques of preparing well-defined solid surfaces and interfaces, basic models for the description of structural, vibrational 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.

The Chemical Physics of Surfaces S. Roy Morrison, 2014-01-15 **Physics of Solid Surfaces, 1984**, 1985

[Surfaces and Interfaces of Solids](#) H. Lüth, 1993 This introduction to the physics of Surfaces and Interfaces of Solids emphasizes both experimental and theoretical aspects of the subject. Besides the techniques of preparing well-defined solid surfaces and interfaces, basic models for the description of structural, vibrational 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 characterisation techniques are presented in the form of separate panels This novel format allows a balanced treatment both of theory and experiment in this highly interdisciplinary field of interface physics Students and researchers who want to enter or are working in fields like surface physics materials science semiconductor technology or microelectronics might benefit from the comprehensive treatment of the subject

Chemistry and Physics of Solid Surfaces VII, 1988

Chemistry and Physics of Solid Surfaces V R. Vanselow, R. Howe, 1984-09-01 This volume contains review articles which were written by the invited speakers of the Sixth International Summer Institute in Surface Science ISSI held at the University of Wisconsin Milwaukee in August 1983 The objective of ISSI is to bring together a group of internationally recognized experts on various aspects of surface science to present tutorial review lectures over a period of one week Each speaker is asked in addition to write a review paper on his lecture topic The collected articles from previous Institutes have been published under the following titles Surface Science Recent Progress and Perspectives Crit Rev Solid State Sci 4 124 559 1974 Chemistry and Physics of Solid Surfaces Vol I 1976 Vol II 1979 Vol III 1982 CRC Press Boca Raton FL and Vol IV 1982 Springer Ser Chern Phys Vol 20 Springer Verlag Berlin Heidelberg New York 1982 No single collection of reviews or one week conference for that matter can possibly cover the entire field of modern surface science from heterogeneous catalysis through semiconductor surface physics to metallurgy It is intended however that the series Chemistry and Physics of Solid Surfaces as a whole should provide experts and students alike with a comprehensive set of reviews and literature references on as many aspects of the subject as possible particular emphasis being placed on the gas solid interface Each volume is introduced with a historical review of the development of one aspect of surface science by a distinguished participant in that development

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Physics of solid surfaces 1987, 1988

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6. In chapter 5, the author will draw a conclusion about Solid Surface Physics. This chapter will summarize the key points that have been discussed throughout the book.

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