

# Solid surface physics (Springer tracts in modern physics)

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# Solid Surface Physics

**Brendan G. Carr**



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Solid Surface Physics Springer, 2014-01-15      *Solid Surface Physics* Josef Hölzl, Franz K. Schulte, Heribert Wagner, 1979

**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      **Solid Surface Physics** , 2006-04-11      *Solid Surface Physics* Holz J.,

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 ISSS 1989 held at the University of Wisconsin Milwaukee in August of 1989 During the course of ISSS 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 ISSS 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      **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

Chemistry and Physics of Solid Surfaces V R. Vanselow, R. Howe, 2013-11-21 This volume contains review articles which were written by the invited speakers of the Sixth International Summer Institute in Surface Science ISSS held at the University of Wisconsin Milwaukee in August 1983 The objective of ISSS 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 *The Chemical Physics of Surfaces* S.R. Morrison, 2013-06-29 of available information Even more importantly some authors who have contributed substantially to an area may have been overlooked For this I apologize I have however not attempted to trace techniques or observations historically so there is no implication unless specified that the authors referred to were or were not the originators of a given method or observation I would like to

acknowledge discussions with co workers at SFU for input relative to their specialties to acknowledge the help of students who have pointed out errors and difficulties in the earlier presentation and to acknowledge the infinite patience of my wife Phyllis while I spent my sabbatical and more in libraries and punching computers S Roy Morrison 0 1 Contents Notation XV 1 Introduction 1 1 1 Surface States and Surface Sites 1 1 1 1 The Chemical versus Electronic Representation of the Surface 1 1 1 2 The Surface State on the Band Diagram 4 1 1 3 The Fermi Energy in the Surface State Model 6 1 1 4 Need for Both Surface Site and Surface State Models 6 1 2 Bonding of Foreign Species to the Solid Surface 7 1 2 1 Types of Interaction 7 1 2 2 The Chemical Bond 10 1 2 3 Acid and Basic Surface Sites on Solids 13 1 2 4 Adsorbate Bonding on Various Solid Types 16 1 2 5 Movement of Surface Atoms Relaxation Reconstruction and Relocation

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## **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. Chem. 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). Physics of Solid Surfaces, 1984, Jan Koukal, 1985. Preparation of Catalysts II. Physics at Surfaces, Andrew Zangwill, 1988-03-24. Physics at Surfaces is a unique graduate-level introduction to the physics and chemical physics of solid surfaces and atoms and molecules that interact with solid surfaces. A subject of keen scientific inquiry since the last century, surface physics emerged as an independent discipline only in the late 1960s as a result of the development of ultra-high vacuum technology and high-speed digital computers. With these tools, reliable experimental measurements and theoretical calculations could at last be compared. Progress in the last decade has been truly striking. This volume provides a synthesis of the entire field of surface physics from the perspective of a modern condensed-matter physicist with a healthy interest in chemical physics. The exposition intertwines experiment and theory whenever possible, although there is little detailed discussion of technique. This much-needed text will be invaluable to graduate students and researchers in condensed-matter physics, physical chemistry, and materials science working in or taking graduate courses in surface science. *Physics of Solid Surfaces, 1984*, 1985. *Surfaces and Interfaces of Solids*, H. L'Uth, 1993. This introduction to the physics of Surfaces and Interfaces of Solids emphasizes both experimental and theoretical aspects of the subject. 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 ultra-high 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

**Structures**, 1993-10-22 Surface physics has experienced in the last two decades an explosive expansion caused by the development and or substantial improvement of surface sensitive techniques and UHV apparatuses. It has grown into a mature field of research with data of the highest accuracy and reproducibility. Surface physics is of great importance for technological applications like field effect devices, molecular beam epitaxy, chemisorption and catalysis, corrosion, surface hardening etc. The present volume III 24 is restricted to the so called clean surfaces, i.e. to surfaces atomically clean and well characterized, leaving the more complex field of the contaminated surfaces and overlayers to a later occasion. Due to the large amount of data, this volume is divided into four subvolumes III 24a, b, c, d (see below). Each chapter consists of an introduction giving a brief presentation of the subject and a data section in form of tables, figures and pictures. A general index in which all data are ordered alphabetically according to the material and to the surface is given at the end of subvolume III 24d.

**Dynamical Processes and Ordering on Solid Surfaces**, A. Yoshimori, M. Tsukada, 2012-12-06 This volume is the proceedings of the Seventh Taniguchi International Symposium on the Theory of Condensed Matter. The symposium was held for five days from September 10 to 14, 1984, at Kashikojima, Mie, Japan. Dynamical processes and ordering on solid surfaces are the subjects of the symposium. About twenty participants stayed together at Shima Kanko Hotel during the period. The intense and productive discussion in the bright sea side atmosphere of Kashikojima is believed to have been impressive to all the participants. Dynamical processes on solid surfaces are the target of recent theoretical efforts in surface physics. Even if some of them are still in their infant stage, important aspects begin to appear and vital concepts start to shape themselves. Some topics in the symposium were the energy transfer related with internal degrees of freedom of molecules, attempts to go beyond the trajectory approximation, charge transfer and energy transfer between particles and solid surfaces and related fundamental problems like adiabatic potentials and electronic structures. In particular, really actively discussed was the time dependent Newns Anderson model without and with the intraatomic Coulomb interaction and sometimes with the interaction to the surface plasmons or phonons. Surface effects on the optical processes were discussed with great interest, such as the ABC related problems of exciton polaritons and rare gas adsorbates on metal surfaces.

**Chemistry and Physics of Solid Surfaces**, 6,

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