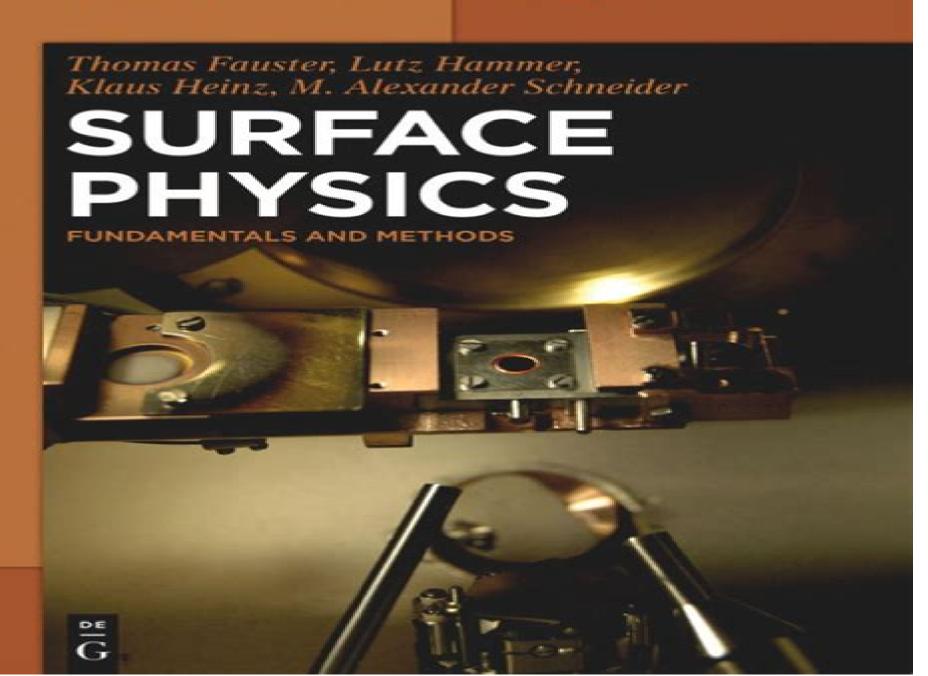
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Surface Physics

R. Vanselow, R. Howe

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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 The Chemical Physics of Surfaces S. Morrison, 2012-12-06 At the present stage of science and their applications 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 con nection 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 develop ments 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 VR. Vanselow, R. Howe, 2013-11-21 This volume contains review articles which were written by the invited speak ers of the Sixth International Summer Institute in Surface Science ISISS held at the University of Wisconsin Milwaukee in August 1983 The objective of ISISS 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 heter ogeneous catalysis through semiconductor surface physics to metallurgy It is intended however that the series Chemistry and Physics of Solid Sur faces as a whole should provide experts and students alike with a comprehen ve 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 devel opment of one aspect of surface science by a distinguished participant in that development 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 Surface Physics of Materials V1 J.M. Blakely, 2012-12-02 Surface Physics of Materials provides an account of the physical properties of solid surfaces It examines the status of work on a number of aspects of solid surfaces and predicts the most profitable avenues for future research The

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