

Springer Series in Surface Sciences 4

**Desorption Induced
by
Electronic Transitions
DIET II**

Editors: W. Brenig and D. Menzel



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Desorption Induced By Electronic Transitions Diet Ii

Chao Zhang



Desorption Induced By Electronic Transitions Diet II:

Desorption Induced by Electronic Transitions DIET II Wilhelm Brenig, Dietrich Menzel, 2012-12-06 The second workshop on Desorption Induced by Electronic Transitions DIET II took place October 15-17 1984 in Schloß Elmau Bavaria DIET II following the great success of DIET I edited by N. H. Tolk, M. M. Traum, J. C. Tully, T. E. Madey and published in Springer Ser. Chem. Phys. Vol. 24 again brought together over 60 workers in this exciting field. The hard core of experts was essentially the same as in DIET I but the general overlap of participants between the two meetings was small. While DIET I had the function of an exposition of the status of the field DIET II focussed more on new developments. The main emphasis was again on the microscopic understanding of DIET but a number of side aspects and the application of DIET ideas to other fields such as sputtering, laser induced desorption, fracture erosion etc. were considered too. New mechanisms and new refined experimental techniques were proposed and discussed at the meeting critically but with great enthusiasm. In addition to the talks there was a continuous poster exhibition which also stimulated extended and excited discussions. This book is a collection of papers summarizing the talks and posters presented at the meeting.

Desorption Induced by Electronic Transitions DIET IV Gerhard Betz, Peter Varga, 2012-12-06 This book is the latest to appear in a series documenting the progress of this exciting field in surface science. It presents recent results and reviews of the rapidly growing field of interaction of particles and lasers with solid surfaces leading to excitation, ionisation and desorption. The main emphasis is on the microscopic understanding of DIET especially electron and ion induced desorption of adsorbed layers, emission from insulators, laser induced desorption and ablation, photophysics and photochemistry. Applications ranging from laser ablation for medical purposes to DIET in high temperature superconductors are also described.

Desorption Induced by Electronic Transitions W. Brenig, 1985 *Progress in Transmission Electron Microscopy 2* Xiao-Feng Zhang, Ze Zhang, 2001-10-18 Transmission electron microscopy TEM is now recognized as a crucial tool in materials science. This book, authored by a team of expert Chinese and international authors, covers many aspects of modern electron microscopy from the architecture of novel electron microscopes, advanced theories and techniques in TEM and sample preparation to a variety of hands-on examples of TEM applications. Volume 2 illustrates the important role that TEM is playing in the development and characterization of advanced materials including nanostructures, interfacial structures, defects and macromolecular complexes.

Desorption Induced by Electronic Transitions, DIET III Richard H. Stulen, Michael L. Knotek, 2013-03-08 These proceedings are the result of the third international workshop on Desorption Induced by Electronic Transitions DIET III which took place on Shelter Island, NY, May 20-22 1987. The work contained in this volume is an excellent summary of the current status of the field and should be a valuable reference text for both seasoned researchers and newcomers in the field of DIET. Based on the success of the meeting it seems clear that interest and enthusiasm in the field is strong. It is also apparent from the many lively discussions during the meeting that many unanswered questions and controversies remain to be solved. It was

particularly pleasing to see many new participants from new and rapidly advancing fields ranging from gas phase dynamics to semiconductor processing The resulting cross fertilization from these separate but related fields is playing an important role in helping us understand desorption processes at solid surfaces In general the topics covered during the course of the workshop overlapped those of both DIET I and DIET II However clear advances have been made and in general there is a much more sophisticated understanding of the physics and chemistry of stimulated desorption Of particular note in this regard is the gas phase research highlighted in this workshop by the work of Nenner et al where new results indicate that in the gas phase photodissociation can precede or compete strongly with autoionization and other electronic relaxation pathways

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

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 Mönch 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

Desorption Induced by Electronic Transitions, DIET III Richard H. Stulen, Michael L. Knotek, 1988-06-28 These proceedings are the result of the third international workshop on Desorption Induced by Electronic Transitions DIET III which took place on Shelter Island NY May 20-22 1987 The work contained in this volume is an excellent summary of the current status of the field and should be a valuable reference text for both seasoned researchers and newcomers in the field of DIET Based on the success of the

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Progress in Transmission Electron Microscopy 1 Xiao-Feng Zhang, Ze Zhang, 2001-10-18. Transmission electron microscopy (TEM) is now recognized as a crucial tool in materials science. This book, authored by a team of expert Chinese and international authors, covers many aspects of modern electron microscopy from the architecture of novel electron microscopes, advanced theories and techniques in TEM and sample preparation to a variety of hands-on examples of TEM applications. Volume I concentrates on the newly developed concepts and methods which are making TEM a powerful and indispensable tool in materials science.

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photochemistry Applications ranging from laser ablation for medical purposes to DIET in high temperature superconductors are also described

Chemical Applications Of Synchrotron Radiation, Part I: Dynamics And Vuv Spectroscopy;

Part II: X-ray Applications Tsun-kong Sham, 2002-05-30 The synchrotron light source is becoming widely available after its evolution from its infancy in the sixties to the present third generation source with insertion devices It is timely to examine the impact that synchrotron light has made and will continue to make on chemical research With this objective in mind the editor of this invaluable book invited contributions from practitioners who are in the forefront of the research The book summarizes most of the significant developments in the last decade in chemical and related research using synchrotron light The utilization of the light as a probe as well as an energy source is emphasized This book is organized into two parts in order of increasing photon energy Part I deals with the applications of low energy photons and covers areas such as gas phase photodissociation reactions and dynamics soft X ray fluorescence IR and photoemission analysis of surfaces spectroscopy of organic and polymeric materials catalysts electronic and magnetic materials and spectromicroscopy Part II encompasses applications using soft to hard X rays including spectroscopy of surface and thin films XAFS diffraction and scattering and several technological applications namely the microprobe photoetching and tribology *Chemical*

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Interactions and Phase Transformations: Volume 51 H. Kurz, G. L. Olson, J. M. Poate, 1986-06-13 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners **Desorption**

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