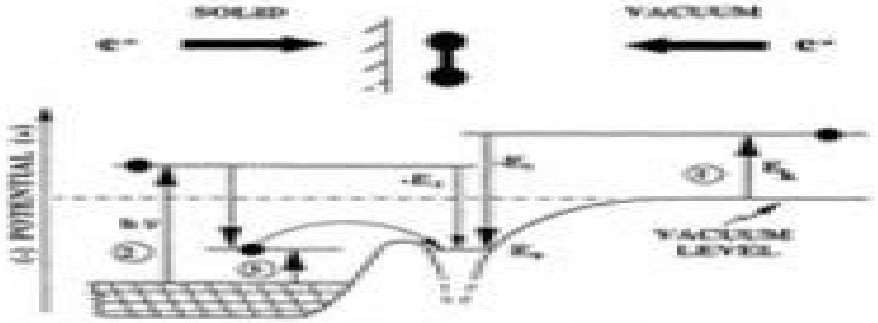

Fig. 1 Unidimensional potential representing the interaction of a low-energy electron with a molecule adsorbed on a metal surface. The electron either arrives from the vacuum side with kinetic energy E_k (1) or it is created in the metal as a secondary electron by a high-energy particle or by a photon as a photo- or hot electron (2 and 3, respectively). The molecular potential, which has one extra electron level at energy E_{ex}, may represent a single-particle anion state or a 2-particle, 1-hole state if an energy equivalent to the electronic state involved (e.g., E_1 or E_2) is subtracted from the initial kinetic energy of the electron.

the same: electrons must be "tuned" to the resonance energy in order to transfer to the adsorbate. Many examples now exist in the literature which illustrate that resonance electron attachment and subsequent reactions occur with hot electrons [3,4] photoelectrons [3,4,5,6], secondary electrons [6] and monochromatic electrons injected from vacuum [2].

2. DECAY OF TRANSIENT ANIONS

A transient molecular anion may decay in different ways depending on its lifetime and molecular orbital characteristics [2]. The additional electron may depart and leave the molecule in a vibrationally or electronically excited state. Because of the force existing between the induced and/or permanent dipoles at the surface during the lifetime of the anion, this latter is attracted toward the surface. If enough kinetic energy is imparted to the molecule by this motion, surface-molecule vibrational modes can also be excited [7]. The entire molecule may even desorb (i.e., by an Antoniewicz type mechanism) when this energy lies above the dissociation limit of the molecule-surface binding potential [8]. For a molecule within a solid, phonon modes of the host lattice are excited by this mechanism [9] as the electron leaves a given molecular site. Desorption of only neutral fragments is possible when the transient anion decays to an electronic excited state which is dissociative in the Franck-Condon (F-C) region [2]. For a diatomic molecule AB, the possible reactions may be represented as $e + AB \rightarrow (AB)^{-*} \rightarrow AB^{*} + e \rightarrow A + B + e$ or $A + B^{*} + e$ leaving the fragment B in the ground or an excited electronic state. When the lifetime of the resonance is of the order of a vibrational period or longer, the $(AB)^{-*}$ state is dissociative in the F-C region and one of the possible fragments has a positive electron affinity, then the anion may also dissociate into a stable anion and a neutral fragment in the ground or an excited state, giving rise to the dissociative electron attachment (DEA) reac-

Desorption Induced By Electronic Transit

Hiroshi Fukumura,Masahiro Irie,Yasuhiro Iwasawa,Hiroshi Masuhara,Kohei Uosaki

Desorption Induced By Electronic Transit:

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readers the latest developments in the field As the chemical and physical properties and processes at solid and liquid interfaces are the scientific basis of so many technologies which enhance our lives and create new opportunities its important to highlight how these technologies enable the design and optimization of functional materials for heterogeneous and electro catalysts in food production pollution control energy conversion and storage medical applications requiring biocompatibility drug delivery and more This book provides an interdisciplinary view that lies at the intersection of these fields Presents fundamental knowledge of interfacial chemistry surface science and electrochemistry and provides cutting edge research from academics and practitioners across various fields and global regions **Desorption Induced by Electronic Transitions Diet I** Norman H. Tolk,1983 **Frontiers in Surface Science and Interface Science** C.B. Duke,E. Ward Plummer,2002-05-21 Any notion that surface science is all about semiconductors and coatings is laid to rest by this encyclopedic publication Bioengineered interfaces in medicine interstellar dust DNA computation conducting polymers the surfaces of atomic nuclei all are brought up to date Frontiers in Surface and Interface Science a milestone publication deserving a wide readership It combines a sweeping expert survey of research today with an educated look into the future It is a future that embraces surface phenomena on scales from the subatomic to the galactic as well as traditional topics like semiconductor design catalysis and surface processing modeling and characterization And great efforts have been made to express sophisticated ideas in an attractive and accessible way Nanotechnology surfaces for DNA computation polymer based electronics soft surfaces interstellar surface chemistry all feature in this comprehensive collection **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 DIET I* N. H. Tolk,M. M. Traum,J. C. Tully,T. E. Madey,2013-03-08 The Workshop on Desorption Induced by Electronic Transitions DIET took place May 12 14 1982 in Williamsburg Virginia The meeting brought together for the first time most of the leading workers in the fields of electron and photon stimulated desorption from surfaces as well as many workers in related fields including sputtering gas phase photodissociation and solid state theory The emphasis of the workshop was on the microscopic mechanism of stimu lated desorption Many possible mechanisms have been proposed and a few new ones emerged at the meeting Though no consensus was reached many views were espoused and criticized frequently with considerable enthusiasm The result was an appraisal of our current understanding of DIET and a focus on the experimental and theoretical efforts most likely to lead to new insights This volume is an attempt to record the

information exchanged in this very successful workshop and perhaps convey some of the excitement of the field of DIET The book is a collection of papers written by participants in the DIET workshop including in addition a contribution from Dietrich Menzel who was unable to attend Thus this book represents a complete statement of the state of the art of experimental and theoretical studies of DIET and related phenomena More importantly it addresses the interesting unsolved problems and suggests strategies for unraveling them We acknowledge the assistance given by the other members of the organizing committee A E de Vries R Gomer M L Knotek D Menzel and D P *Molecular Nano Dynamics* Hiroshi Fukumura,Masahiro Irie,Yasuhiro Iwasawa,Hiroshi Masuhara,Kohei Uosaki,2009-09-09 From artificial surfaces to living cells Molecular Nano Dynamics Vol I and Vol II explores more than 40 important methods for dynamic observation of the nanoscale Edited by absolute science greats from Japan this two volume set covers all important aspects of this topic nanoscale spectroscopy and characterization tools nanostructure dynamics single living cell dynamics active surfaces and single crystals Destined to be the definitive reference work on nanoscale molecular dynamics and their observation for years to come this is a must have reference for chemists physicists physical chemists theoretical chemists and materials scientists 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 SchloB Elmau Bavaria DIET II fol lowing 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 co re 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 under standing of DIET but a number of side aspects and the application of DIET ideas to other fields such as sputtering laser induced desorption fractu re erosion etc were considered too New mechanisms and new refined expe rimental 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 V Alan R. Burns,1993-05-27 This volume in the Springer Series on Surface Sciences presents a recent account of advances in the ever broadening field of electron and photon stimulated sur face processes As in previous volumes these advances are presented as the proceedings of the International Workshop on Desorption Induced by Electronic Transitions the fifth workshop DIET V was held in Taos New Mexico April 1 4 1992 It will be abundantly clear to the reader that DIET is not restricted to desorption but has for several years included photochemistry non thermal surface modification exciton self trapping and many other phenomena that are induced by electron or photon bombardment However most stimulated surface processes do share a common physics initial electronic excitation localization of the excitation and conversion of electronic energy into nuclear

kinetic energy It is the rich variation of this theme which makes the field so interesting and fruitful We have divided the book into eleven parts in order to emphasize the wide range of materials that are examined and to highlight recent experimental and theoretical advances Naturally there is considerable overlap between sections and many papers would be appropriate in more than one part Part I focuses on perhaps the most active area in the field today electron attachment Here the detection and characterization of negative ions formed by attachment of elec trons supplied externally from the vacuum are discussed In addition the first observations of negative ions formed by substrate photoelectrons are presented Desorption Induced by Electronic Transitions DIET III Richard H. Stulen,1988 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 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 over lapped those of both DIET I and DIET II However clear advances have been made and in general there is a much more sophisticated understand ing 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 autoion ization and other electronic relaxation pathways **Desorption Induced by Electronic Transitions** Norman H. Tolk,1983 **Desorption induced by electronic transitions** Richard H. Stulen,1988 **Bell Laboratories Talks and Papers** Bell Telephone Laboratories. Libraries and Information Systems Center,1983 **Optical & Acoustical Review** ,1990 **Desorption Induced by Electronic Transitions DIET IV** Gerhard Betz,Peter Varga,1990-08-10 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 *New Serial Titles* ,1992 **Desorption Induced by Electronic Transitions** ,1983 The Workshop on Desorption Induced by Electronic Transitions DIET took place May 12 14 1982 in

Williamsburg Virginia The meeting brought together for the first time most of the leading workers in the fields of electron and photon stimulated desorption from surfaces as well as many workers in related fields including sputtering gas phase photodissociation and solid state theory The emphasis of the workshop was on the microscopic mechanism of stimu lated desorption Many possible mechanisms have been proposed and a few new ones emerged at the meeting Though no consensus was reached many views were espoused and criticized frequently with considerable enthusiasm The result was an appraisal of our current understanding of DIET and a focus on the experimental and theoretical efforts most likely to lead to new insights This volume is an attempt to record the information exchanged in this very successful workshop and perhaps convey some of the excitement of the field of DIET The book is a collection of papers written by participants in the DIET workshop including in addition a contribution from Dietrich Menzel who was unable to attend Thus this book represents a complete statement of the state of the art of experimental and theoretical studies of DIET and related phenomena More importantly it addresses the interesting unsolved problems and suggests strategies for unraveling them We acknowledge the assistance given by the other members of the organizing committee A E de Vries R Gomer M L Knotek D Menzel and D P

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