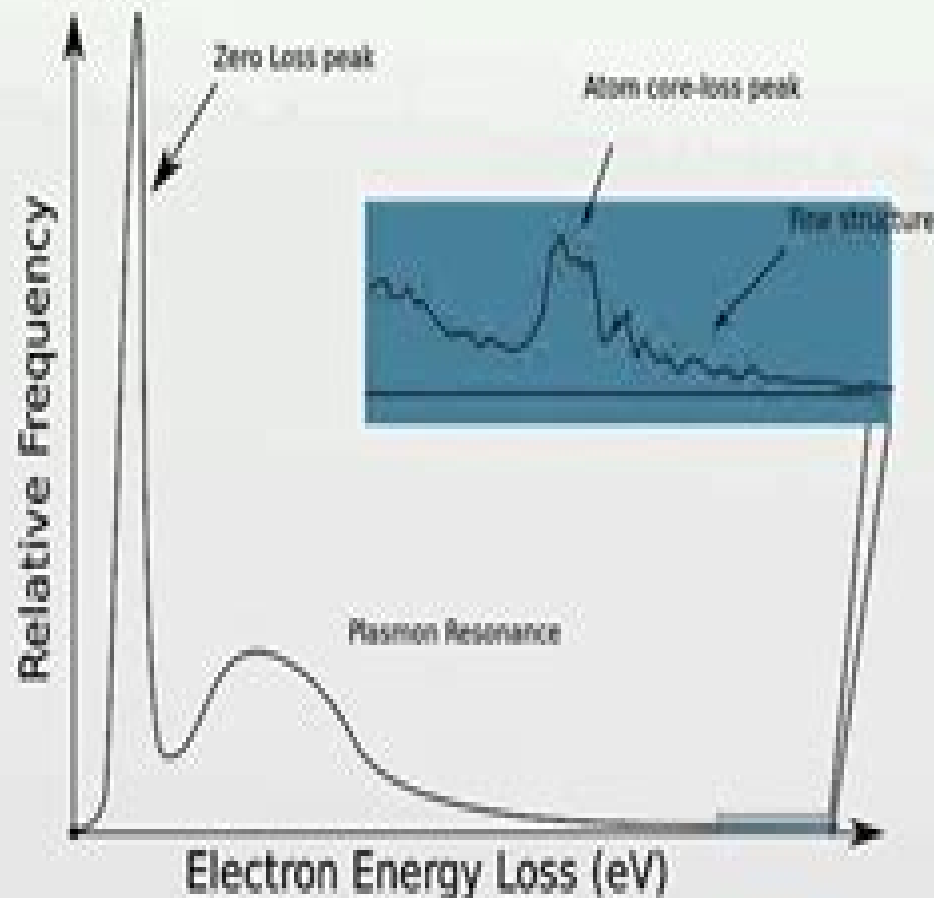


Electron energy loss spectroscopy



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Electron Energy Loss Spectroscopy

Bärbel Fromme



Electron Energy Loss Spectroscopy:

Electron Energy Loss Spectroscopy and Surface Vibrations H. Ibach, D. L. Mills, 2013-10-22 Electron Energy Loss Spectroscopy and Surface Vibrations is devoted to electron energy loss spectroscopy as a probe of the crystal surface. Electrons with energy in the range of a few electron volts sample only a few atomic layers. As they approach or exit from the crystal they interact with the vibrational modes of the crystal surface or possibly with other elementary excitations localized there. The energy spectrum of electrons back reflected from the surface is thus a rich source of information on its dynamics. The book opens with a detailed analysis of the physics that controls the operation of the monochromator which is the core of the experimental apparatus. Separate chapters follow on the interaction of electrons with vibrational modes of the surface region and with other elementary excitations in the vicinity of the lattice dynamics of clean and adsorbate covered surfaces with emphasis on those features of particular relevance to surface vibrational spectroscopy and selected applications. **High-resolution Electron Energy Loss Spectroscopy** Judith A. Gates, 1983

Publications of the National Bureau of Standards United States. National Bureau of Standards, 1986

Advances in Multi-photon Processes and Spectroscopy S. H. Lin, Y. Fujimura, A. A. Villaesca, 2010 In view of the rapid growth in both experimental and theoretical studies of multi photon processes and multi photon spectroscopy of atoms, ions and molecules in chemistry, physics, biology and materials science it is timely to publish an advanced series that contains review papers readable not only by active researchers in these areas but also by those who are non experts but who wish to enter the field. This present volume attempts to serve this purpose. Each chapter is written in a self contained manner by experts in their own area of expertise so that general readers can grasp the knowledge in that area without too much preparation. *Galactic and Extragalactic Infrared Spectroscopy* M.F. Kessler, J.P. Phillips, 1983-12-31 The last major conference on infrared astronomy was the IAU Symposium No 96 in June 1980. Since then the discipline has continued to mature and to contribute to all branches of astrophysics. One particular area of growth has been in spectroscopic capabilities at all infrared wavelengths. The purpose of the Symposium in Toledo was to review the scientific questions to be addressed via infrared spectroscopy and to provide in the proceedings a useful summary of the field. The sensitivity of infrared spectroscopic observations is still generally limited by detector characteristics or by thermal background radiation. However in recent years improvements in detector technology together with developments in spectroscopic instrumentation have made possible both quite detailed spectroscopy of the brighter members of many classes of galactic sources and also begun to open up some infrared spectroscopy of extragalactic sources. The potential of the field in the next decade or two is clear. The IRAS mission has completed one of the pre requisites namely an all sky photometric survey. Major space missions utilising cryogenic infrared telescopes have been approved in Europe (ISO) and seem likely in the USA (SIRTF). Plans for space submillimeter telescopes are firming up. On the ground large telescopes optimized for infrared observations are now in

operation at high altitude sites and specialized submillimeter facilities are under construction The particular advantages of planned very large telescopes for infrared observations are widely accepted

Dynamical Phenomena at Surfaces, Interfaces and Superlattices Fabrizio Nizzoli, Manuel Cardona, Karl-Heinz Rieder, Roy F. Willis, 2012-12-06 Electron Scattering and Related Spectroscopies Maurizio De Crescenzi, M. Novella Piancastelli, 1996 The main purpose of this book is to provide an overview of all phenomena which can be categorized under the general label of electron scattering and to give a comprehensive description of all spectroscopical techniques related to electron scattering phenomena Various classes of events are examined electron in electron out photon in electron out electron in two electron out electron diffraction together with the corresponding experimental techniques A description of the underlying physics of various electron scattering phenomena is provided For each spectroscopy the general principles the main fields of application and some selected representative cases are discussed The use of relatively low cost electron sources is emphasized with respect to photon sources The book is directed to PhD students and researchers not necessarily yet expert in the field

Inelastic Electron Tunneling Spectroscopy T. Wolfram, 2012-12-06 Inelastic Electron Tunneling Spectroscopy or IETS provides a unique technique for electronically monitoring the vibrational modes of molecules adsorbed on a metal oxide surface Since the discovery of the phenomena by JAKLEVIC and LM1BE in 1966 IETS has been developed by a number of scientists as a method for studying the surface chemistry of molecular species adsorbed on aluminum oxide Recent applications of IETS include investigations of physical and chemical adsorption of hydrocarbons studies of catalysis by metal particles detection and identification of trace substances in air and water and studies of biological molecules and electron damage to such molecules IETS has been employed to investigate adhesive materials and studies are currently in progress to investigate corrosion species and corrosion inhibitors on aluminum and its alloys Electronic transitions of molecules have also been studied by IETS The recent development of the external doping technique whereby molecular species can be introduced into fabricated tunnel junctions opens the door for a vast new array of surface chemical studies by IETS IETS is rapidly becoming an important tool for the study of surface and interface phenomena In addition to its role in surface studies inelastic tunneling has proved extremely valuable for the study of the electronic properties of thin metallic films and the recent discovery of light emission from inelastic tunneling promises to be of some importance in the area of device physics

Ceramic Microstructures Antoni P. Tomsia, Andreas M. Glaeser, 2012-12-06 This volume titled Proceedings of the International Materials Symposium on Ceramic Microstructures Control at the Atomic Level summarizes the progress that has been achieved during the past decade in understanding and controlling microstructures in ceramics A particular emphasis of the symposium and therefore of this volume is advances in the characterization understanding and control of microstructures at the atomic or near atomic level This symposium is the fourth in a series of meetings held every ten years devoted to ceramic microstructures The inaugural meeting took place in 1966 and focussed on the analysis significance and

production of microstructure the symposium emphasized the need for and importance of characterization in achieving a more complete understanding of the physical and chemical characteristics of ceramics A consensus emerged at that meeting on the critical importance of characterization in achieving a more complete understanding of ceramic properties That point of view became widely accepted in the ensuing decade The second meeting took place in 1976 at a time of world wide energy shortages and thus emphasized energy related applications of ceramics and more specifically microstructure property relationships of those materials The third meeting held in 1986 was devoted to the role that interfaces played both during processing and in influencing the ultimate properties of single and polyphase ceramics and ceramic metal systems

Phonons: Theory and Experiments II Peter Brüesch, 2012-12-06 The first part of this three volume treatment Phonons Theory and Experiments I has been devoted to the basic concepts of the physics of phonons and to a study of models of interatomic forces The present second volume Phonons Theory and Experiments II contains a thorough study of experimental techniques and the interpretation of experimental results In a third volume we shall treat a number of phenomena which are directly related to lattice dynamics The aim of this treatment is to bridge the gap between theory and experiment Both experimental aspects and theoretical concepts necessary for an interpretation of experimental data are discussed An attempt has been made to present the descriptive as well as the analytical aspects of the topics Although emphasis is placed on the experimental and theoretical study of the dynamics of atoms in solids most chapters also contain a general introduction to the specific subject The text is addressed to experimentalists and theoreticians working in the vast field of dynamical properties of solids It will also prove useful to graduate students starting research in this or related fields The choice of the topics treated was partly determined by the author's own activity in these areas This is particularly the case for the chapters dealing with infrared Raman and inelastic neutron spectroscopy as well as for some newer developments such as the optical spectroscopy of thin films and adsorbates

Studies of the Surfaces of Solids by Electron Spectroscopy Sir Ronald Mason, 1986

Neutron and Synchrotron Radiation for Condensed Matter Studies Jose Baruchel, Jean-Louis Hodeau, Mogens S. Lehmann, Jean-Rene Regnard, Claire Schlenker, 2013-12-18 This volume belongs to the series of the HERCULES Course on Neutron and Synchrotron Radiation for Condensed Matter studies This course coorganized by Universities in Grenoble and Paris CNRS and INSTN takes place since 1991 in Grenoble close to and with the support of the European Synchrotron Radiation Facility ESRF and the Institut Laue Langevin ILL The first volume gave general presentation of the theory instruments and methods used in the fields This second volume which corresponds to a two week course is devoted to selected applications in Physics and Chemistry of Solids This domain of applications is extremely wide and no attempt has been made to cover it entirely It includes fourteen chapters from general considerations on symmetry in condensed matter to the most recent developments on magnetic excitations and electron spectroscopies in high T_c superconductors The subjects have been chosen either for their basic importance or in relation with recent

developments The fifteen authors have been selected on account of their high scientific level and teaching skills Among them Jean Rossat Mignod passed away suddenly in August 1993 and we would like here to honor his memory he was a very deep physicist and an excellent expert of the applications of neutron techniques to various fields of condensed matter physics such as magnetism correlated metals superconductivity and phase transitions

Excess Electrons in Dielectric Media

Christiane Ferradini, Jean-Paul Jay-Gerin, 1991-08-05 This book provides a comprehensive review of the present knowledge and current problems concerning physical chemical aspects of the behavior of excess electrons in various media The book's 13 chapters strike a balance between theoretical and experimental accounts and provide in depth presentations of specific subjects Among the several topics discussed in this stimulating volume are primary interactions transport and relaxation of excess electrons of a few tens of electron Volts in various solid and liquid materials energetics and transport properties of electrons after thermalization in non polar dielectric liquids quantum simulation methods and electron solvation in polar liquids and of excess electrons trapped in polar matrices at low temperature Applications of these concepts are discussed as well including hot electron transport in silicon dioxide the fate of excess electrons created in polar dielectric liquids by photoelectrochemical methods or by cathodic generation and excess electron production and decay in organic microheterogeneous systems Researchers instructors and engineers working in the radiation sciences condensed matter physics chemical physics biophysics photochemistry and the biochemistry of electron transfer and electrochemistry should consider this book to be an invaluable reference resource

Chemistry and Physics of Solid Surfaces IV R.

Vanselow, Russell Howe, 2013-03-13 At the International Summer Institute in Surface Science ISIS which is held biennially on the Campus of the University of Wisconsin Milwaukee invited speakers present tutorial review lectures during the course of one week The majority of the presentations deal with the gas solid interface but now and then relevant reviews concerning liquid solid or solid solid interfaces are included The goal of ISIS was outlined in the first ISIS publication We recognize that the International Summer Institute in Surface Science should foster mutual understanding and interaction among theorists and experimentalists in the various areas of surface science Progress can be achieved only when we occasionally peek over the fence into neighboring areas not so much to amuse ourselves that the grass is greener on the other side as to learn from their progress and perhaps equally fruitfully from their limitations and setbacks In addition it is an important task in any field of science to assess take count of what is done and what is more important to point in future directions Since the foundation of ISIS in 1973 the invited speakers internationally recognized experts in their area of specialization have been asked to write review articles too We wanted in this way to ensure that the largest possible group of scientists could benefit from the special review concept

High-Energy Spectroscopic Astrophysics

Steven M. Kahn, Peter Ballmoos, Rashid A. Sunyaev, 2005-09-05 After three decades of intense research in X ray and gamma ray astronomy the time was ripe to summarize basic knowledge on X ray and gamma ray spectroscopy for interested students and researchers ready to become

involved in new high energy missions This volume exposes both the scientific basics and modern methods of high energy spectroscopic astrophysics The emphasis is on physical principles and observing methods rather than a discussion of particular classes of high energy objects but many examples and new results are included in the three chapters as well

Vibrations at Surfaces C. R. Brundle, 2000-04-01 Studies in Surface Science and Catalysis 14 Vibrations at Surfaces documents the proceedings of the third International Conference on Vibrations at Surfaces held at Asilomar California from September 14 1982 Almost all of the 102 papers presented at the meeting are published in this volume The topics chosen for the eight sessions held over a span of three days were I Vibrational Frequency Shifts and Widths Lateral Interactions II Dynamical Processes at Surfaces III and IV Electron Loss Spectroscopy V Raman and Surface Enhanced Raman Scattering VI Infrared Absorption and Reflection Spectroscopy VII Beam Surface Scattering Surface Phonons VIII Electron Tunneling Spectroscopy Surface Enhanced Raman Studies in Electrochemistry In addition C B Duke presented an introductory keynote surveying progress in the field since the last meeting In the final session H Ibach and T Grimley presented conference overviews and future prospects for the field from an experimental and theoretical perspective Also included in the Proceedings are four literature surveys on Energy Loss Inelastic Tunneling Infrared and Raman SERS papers

Oxide Surfaces, 2001-05-21 The book is a multi author survey in 15 chapters of the current state of knowledge and recent developments in our understanding of oxide surfaces The author list includes most of the acknowledged world experts in this field The material covered includes fundamental theory and experimental studies of the geometrical vibrational and electronic structure of such surfaces but with a special emphasis on the chemical properties and associated reactivity The main focus is on metal oxides but coverage extends from simple rocksalt materials such as MgO through to complex transition metal oxides with different valencies

d-d Excitations in Transition-Metal Oxides Bärbel Fromme, 2007-08-03 In this monograph investigations of the electronic structures of the transition metal oxides MnO CoO and NiO with spin polarized electron energy loss spectroscopy are presented and compared with other experimental and theoretical results After a review of the present knowledge of the electronic structure of the monoxides the spectroscopic method applied and its special advantages are described The knowledge and use of the different spin angle and primary energy dependences of the various relevant inelastic electron scattering mechanisms provide new insights into the excitation processes of the optically forbidden transitions between the crystal field split 3d states of the bulk and of the surface

ERDA Energy Research Abstracts United States. Energy Research and Development Administration, 1977

Photoabsorption, Photoionization, and Photoelectron Spectroscopy Joseph Berkowitz, 2012-12-02 Photoabsorption Photoionization and Photoelectron Spectroscopy explores photoabsorption processes involving individual isolated molecules in the wavelength or photon energy range from the ionization thresholds of molecules usually in the vacuum ultraviolet region through the soft and hard X ray region and beyond the K edge The interaction between electromagnetic radiation and isolated molecules

based on photoabsorption photoionization and photoelectron spectroscopy studies is described along with the techniques for measurement of total and partial cross sections This book is comprised of eight chapters and examines the decomposition of molecules and molecular ions as well as mildly excited valence shell excitation and highly excited inner shell excitation molecules After providing a general theoretical background it discusses certain classes of atoms and molecules and considers electromagnetic interactions with gases The following chapters focus on photoabsorption below the first ionization limit quasi discrete states above the first ionization potential and the ionization continuum Total photoabsorption and photoionization cross sections for selected molecules are also considered and the angular distribution of photoelectrons is analyzed The various measurement techniques are described in the last chapter This monograph will be of interest to radiation chemists radiation physicists photochemists mass spectrometrists and perhaps radiation biologists

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