

SPRINGER TRACTS IN MODERN PHYSICS

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Particle Induced Electron Emission II

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Particle Induced Electron Emission II

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Gudmundsson**



Particle Induced Electron Emission II:

Particle Induced Electron Emission II ,2006-04-11 Electron emission is a fundamental phenomenon which accompanies most interactions of energetic particles with solid surfaces Not only is it a special effect which for almost ninety years has attracted the interest of physicists but it is also of acute importance in such fields as radiation effects and transport phenomena in solids e g radiation biology plasma surface interactions microtechnology surface analysis ion microscopies particle detector development and others While Volume I emphasizes the theoretical description of the mechanisms of electron emission this volume reviews modern experimental trends and aspects of the phenomenon e g kinetic electron emission from massive solids and from thin foils under bombardment with positive negative and neutral particles and the measurement of electron statistics in connection with potential and kinetic emission due to slow singly and multiply charged projectiles

Particle Induced Electron Emission II ,2013-10-03 Electron emission is a fundamental phenomenon which accompanies most interactions of energetic particles with solid surfaces Not only is it a special effect which for almost ninety years has attracted the interest of physicists but it is also of acute importance in such fields as radiation effects and transport phenomena in solids e g radiation biology plasma surface interactions microtechnology surface analysis ion microscopies particle detector development and others While Volume I emphasizes the theoretical description of the mechanisms of electron emission this volume reviews modern experimental trends and aspects of the phenomenon e g kinetic electron emission from massive solids and from thin foils under bombardment with positive negative and neutral particles and the measurement of electron statistics in connection with potential and kinetic emission due to slow singly and multiply charged projectiles

Slow Heavy-Particle Induced Electron Emission from Solid Surfaces Hannspeter Winter,Joachim Burgdörfer,2007-05-03 The emission of electrons from solid surfaces bombarded by slow neutral and ionized heavy particles atoms molecules is reviewed both theoretically and in the light of recent experimental studies by leading groups in the field The book integrates physics of ion beams surfaces and chemical physics and serves both as a reference work for researchers and a textbook for graduate students

Particle Induced Electron Emission I ,2006-04-11 This monograph discusses collision induced electron emission from nearly free electron metals by ion or electron impact This subject is as is well known of acute importance in understanding plasma wall interactions in thermonuclear reactors It is also the basis for one of the most exciting technological developments of the last few years scanning electron microscopy Several electron excitation mechanisms of electrons in the target are considered excitation of single conduction and core electrons excitation by plasmon decay and by Auger processes Transport of inner excited electrons is simulated by the Boltzmann equation incorporating both elastic and inelastic collisions The numerical calculation of scattering rates uses a dynamically screened Coulomb interaction These results for the energy distributions of emerging electrons as well as the electron yield are compared with recent experimental measurements on electron emission from polycrystalline aluminum

Reactive Sputter

Deposition Diederik Depla, Stijn Mahieu, 2008-06-24 The most straightforward method to change the surface properties of a material is to deposit a thin film or coating on it. Hence it is not surprising that an overwhelming amount of scientific and technical papers is published each year on this topic. Sputter deposition is one of the many so-called physical vapour deposition (PVD) techniques. In most cases sputter deposition uses a magnetically enhanced glow discharge or magnetron discharge to produce the ions which bombard and sputter the cathode material. In the first chapter of this book (Chap 1) the details of the sputter process are discussed. Essential to sustain the discharge is the electron emission during ion bombardment. Indeed the emitted electrons are accelerated from the target and can ionize gas atoms. The formed ions bombard again the target completing the sustaining process. A complete chapter is assigned to this process to highlight its importance. Chap 2 Although the sustaining process can be described quite straightforward a complete understanding of the magnetron discharge and the influence of different parameters on the discharge characteristics is only possible by modelling (see Chap 3). With these three chapters the reader should be able to form an idea of the target and plasma processes occurring during a DC magnetron discharge.

Ionization of Solids by Heavy Particles Raul A. Baragiola, 2012-12-06 This book collects the papers presented at the NATO Advanced Research Workshop on Ionization of Solids by Heavy Particles held in Giardini Naxos Taormina Italy on June 1-5 1992. The meeting was the first to gather scientists to discuss the physics of electron emission and other ionization effects occurring during the interaction of heavy particles with condensed matter. The central problem in the field is how to use observations of electron emission and final radiation damage to understand what happens inside the solid like excitation mechanisms the propagation of the electronic excitation along different pathways and surface effects. The ARW began with a brief survey of the field stressing the unknowns. It was pointed out that ionization theories can only address the very particular case of weak perturbations. For this problem this meant high speed low charged projectiles a perturbation treatment of interactions with slow highly charged ions was later presented. Only semi empirical models exist for velocities lower than the Fermi velocity in the solid which can be used to predict kinetic electron emission yields. These models however do not address the basic questions about the mechanisms for electron excitation transport and escape through the surface layer.

Compton Scattering Frank Wissmann, 2003-12-03 A comprehensive summary of experiments on Compton scattering from the proton and neutron performed at the electron accelerator MAMI. The experiments cover a photon energy range from 30 MeV to 500 MeV. The reader is introduced to the theoretical concepts of Compton scattering followed by a description of the experiments on the proton their analysis and results.

Surface Science Techniques Gianangelo Bracco, Bodil Holst, 2013-01-11 The book describes the experimental techniques employed to study surfaces and interfaces. The emphasis is on the experimental method. Therefore all chapters start with an introduction of the scientific problem the theory necessary to understand how the technique works and how to understand the results. Descriptions of real experimental setups experimental results at different systems are given to show both the strength and the limits of the

technique In a final part the new developments and possible extensions of the techniques are presented The included techniques provide microscopic as well as macroscopic information They cover most of the techniques used in surface science

Surface Scattering Experiments with Conduction Electrons Dieter Schumacher, 2007-09-17 Surface Scattering Experiments with Conduction Electrons shows how this process can be used to investigate surface processes of thin metal films Since a thin film is in one direction of a size comparable to the mean free path of the conduction electrons such a film is both substrate and sensor and must be characterized by other surface analytical methods as demonstrated here Also discussed is how the dc resistivity measurement permits the study of surface processes such as adsorption desorption and surface diffusion up to crystalline growth The in situ observation of epitaxial growth is additionally shown to be possible Thus the electronic structure of superimposed metal films and superlattices can be elucidated This is an essential topic for all surface physicists

Interaction of Charged Particles with Solids and Surfaces Alberto Gras-Martí, Herbert M. Urbassek, Nestor R. Arista, Fernando Flores, 2012-12-06 Early in 1989 while most of us were gathered in the Mediterranean five centuries old city of Alacant the idea of a school on stopping and particle penetration phenomena came to our minds Later that year when discussing this plan with some of the participants in the 13th International Conference on Atomic Collisions in Solids in Aarhus we were pleased to note that the proposal was warmly welcomed indeed by the community An Advanced Study Institute on this or a related subject had not been organized in the last decade Because of the progress made particularly in the interaction of high energy beams with matter and the many applications which the general subject of the stopping of charged particles ions and electrons in matter enjoys a Study Institute appeared a worthy enterprise Even though several international conference series cover developments in these areas they miss tutorial introductions to the field The title chosen was Interaction of Charged Particles with Solids and Surfaces and the objectives were stated as follows to cover theory and experiments including selected applications and hot topics of the stopping of charged particles ions and electrons in matter The emphasis will be on outlining the areas where further effort is needed and on specifying the basic needs in applications Fundamental concepts will prevail over applications and the character of the Institute as a school will be stressed The school was directed by Fernando Flores Spain Herbert M Urbassek Germany Nestor R

High Power Impulse Magnetron Sputtering Daniel Lundin, Tiberiu Minea, Jon Tomas Gudmundsson, 2019-08-30 High Power Impulse Magnetron Sputtering Fundamentals Technologies Challenges and Applications is an in depth introduction to HiPIMS that emphasizes how this novel sputtering technique differs from conventional magnetron processes in terms of both discharge physics and the resulting thin film characteristics Ionization of sputtered atoms is discussed in detail for various target materials In addition the role of self sputtering secondary electron emission and the importance of controlling the process gas dynamics both inert and reactive gases are examined in detail with an aim to generate stable HiPIMS processes Lastly the book also looks at how to characterize the HiPIMS discharge including essential diagnostic equipment Experimental results and

simulations based on industrially relevant material systems are used to illustrate mechanisms controlling nucleation kinetics column formation and microstructure evolution

Physics with Multiply Charged Ions Dieter Liesen, 2013-06-29 Multiply charged ions have always been in the focus of atomic physics astrophysics plasma physics and theoretical physics Within the last few years strong progress has been achieved in the development of ion sources ion storage rings ion traps and methods to cool ions As a consequence nowadays experiments with ensembles of multiply charged ions of brilliant quality are performed in many laboratories The broad spectrum of the experiments demonstrates that these ions are an extremely versatile tool for investigations in pure and applied physics It was the aim of this ASI to bring together scientists working in different fields of research with multiply charged ions in order to get an overview of the state of the art to sound out possibilities for fruitful cooperations and to discuss perspectives for the future Accordingly the programme of the ASI reached from established areas like QED calculations weak interactions x ray astronomy x ray lasers multi photon excitation heavy ion induced fusion and ion surface interactions up to the very recently opened areas like bound beta decay laser and x ray spectroscopy and spectrometry of ions in rings and traps and the interaction of highly charged ions with biological cells Impressive progress in nearly all of the fields could be reported during the meeting which is documented by the contributions to this volume The theoretical understanding of QED and correlation effects in few electron heavy ions is rapidly developing

Fermi Surfaces of Low-Dimensional Organic Metals and Superconductors Joachim Wosnitza, 2006-04-11 Fermi Surfaces of Low Dimensional Organic Metals and Superconductors is an introduction to quasi one and quasi two dimensional organic metals and a review of the current knowledge on the electronic structure of these materials The principal structural electronic and superconducting properties are described and illustrated with many examples The book introduces the basic theoretical concepts necessary for the understanding of the experimental techniques and reviews in detail recent results in the investigation of the Fermi surface topology The book is intended both as an introduction and as a reference book for active researchers

The Physics of Multiply and Highly Charged Ions F.J. Currell, 2013-11-11 Highly charged ions are the most chemically reactive species known to mankind This reactivity is due to the extremely large potential energy they possess This textbook deals with the wide range of interactions which occur when such ions interact with other forms of matter especially solid surfaces and gasses Particular emphasis is placed on situations where the kinetic energy associated with the interactions is small so that the effects of the high potential energy are most apparent Experimental and theoretical techniques of investigation are covered in addition to the findings they produce The treatment aims to be instructive to the beginner while leading on to a level where the newest findings are reviewed As such the text is suitable for final year undergraduates postgraduates or experienced researchers

Critical Phenomena at Surfaces and Interfaces Helmut Dosch, 2006-04-11 This book deals with the application of grazing angle x ray and neutron scattering to the study of surface induced critical phenomena With the advent of even more advanced synchrotron radiation sources and new sophisticated

instrumentation this novel technique is expected to experience a boom The comprehensive and detailed presentation of theoretical and experimental aspects of the scattering of evanescent x ray and neutron waves inside a solid makes this book particularly useful for tutorial courses Particular emphasis is put on the use of this technique to extract microscopic information correlation functions from the real structure of a surface from buried and magnetic interfaces and from surface roughness

Inelastic Scattering of X-Rays with Very High Energy Resolution Eberhard Burkel, 2006-04-11 Inelastic scattering of X rays with very high energy resolution has finally become possible thanks to a new generation of high intensity X ray sources This development marks the end to the traditional belief that low energy excitations like lattice vibrations cannot be resolved directly with X rays Inelastic scattering experiments allow to observe directly the small energy shifts of the photons Studies of lattice vibrations of excitations in molecular crystals of collective excitations in liquids and electronic excitations in crystals demonstrating the broad applicability and power of this new technology are discussed in this book The progress in this field opens up fantastic new research areas not only in physics but also in other disciplines such as materials science biology and chemistry

Dynamics of Topological Magnetic Solitons Victor G. Bar'yakhtar, Mikhail V. Chetkin, Boris A. Ivanov, Sergei N. Gadetskii, 2006-04-11 Dynamics of Topological Magnetic Solitons gives a theoretical and experimental review of the dynamics of high speed domain walls and Bloch lines After the introduction of magnetic solitons experimental methods for the observation of the dynamics of domain walls are presented Further chapters discuss main features of the stimulated motion of domain walls their magnetoelastic interaction stability and relaxation Finally the dynamics of domain walls in weak ferromagnets with more than one dimension is treated The last chapter presents the dynamics of Bloch lines and their clusters More than 230 references guide the reader to the literature Physicists will gain new insights in interesting applications of soliton theory in condensed matter physics Engineers will find new information on magneto-optical effects for further applications

Time-Resolved Light Scattering from Excitons Heinrich Stolz, 2006-04-11 Time Resolved Light Scattering from Excitons investigates exciton states in semiconductors and their relaxation processes by time resolved light scattering The reader will gain both a clear understanding of the theoretical aspects of this method and profound knowledge of the experimental state of the art The development of quantum beat spectroscopy for excitons is also discussed

The Mott Metal-Insulator Transition Florian Gebhard, 2003-07-01 Little do we reliably know about the Mott transition and we are far from a complete understanding of the metal insulator transition due to electron-electron interactions Mott summarized his basic ideas on the subject in his wonderful book Metal Insulator transitions that first appeared in 1974 11 1 In his view a Mott insulator displays a gap for charge carrying excitations due to electron correlations whose importance is expressed by the presence of local magnetic moments regardless of whether or not they are ordered Since the subject is far from being settled different opinions on specific aspects of the Mott transition still persist This book naturally embodies my own understanding of the phenomenon inspired by the work of the late Sir Nevill

Mott The purpose of this book is twofold first to give a detailed presentation of the basic theoretical concepts for Mott insulators and second to test these ideas against the results from model calculations For this purpose the Hubbard model and some of its derivatives are best suited The Hubbard model describes a Mott transition with a mere minimum of tunable parameters and various exact statements and even exact solutions exist in certain limiting cases Exact solutions not only allow us to test our basic ideas but also help to assess the quality of approximate theories for correlated electron systems From Coherent Tunneling to Relaxation Alois Würger, 2007-09-28 From Coherent Tunneling to Relaxation is an impressive review of ten years of progress in our understanding of interacting tunneling systems The dielectric and elastic response of 111 off center impurities in alkali halides is investigated in detail and the coherent motion of an impurity pair is discussed in view of recently observed rotary echoes The low temperature properties of defect crystals with an impurity concentration higher than 100 ppm are reviewed and the dipolar interaction is shown to drive the cross over to relaxational dynamics This comprehensive presentation of the theory is illustrated by experimental data for lithium cyanide and hydroxyl impurities in various host crystals This monograph is an ideal reference book for scientists working with defect crystals and glasses

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