

Graduate Texts in Physics

Hans Lüth

Solid Surfaces, Interfaces and Thin Films

Sixth Edition

 Springer

Solid Surfaces Interfaces And Thin Films

E. Gutsche



Solid Surfaces Interfaces And Thin Films:

Solid Surfaces, Interfaces and Thin Films Hans Lüth, 2010-09-02 Solid Surfaces Interfaces and Thin Films examines both experimental and theoretical aspects of surface interface and thin film physics Coverage of magnetic thin films has been expanded and now includes giant magnetoresistance and the spin transfer torque mechanism **Solid Surfaces, Interfaces and Thin Films** Hans Luth, 2014-01-15 *Polymer Surfaces, Interfaces And Thin Films* Alamgir Karim, Sanat Kumar, 2000-04-19 The theoretical and experimental study of polymers polymer surfaces and thin films has undergone a revolution in the last 25 years This book captures recent advances in this field It covers equilibrium aspects kinetics and reactions at interfaces It is aimed not only at a research audience but also at beginners January 1, 2022-01-19 No detailed description available for January 1 16 January Görlich, 2021-11-22 No detailed description available for 16 January *Elementary Processes in Excitations and Reactions on Solid Surfaces* Ayao Okiji, Hideaki Kasai, Kenji Makoshi, 2012-12-06 Elementary Processes in Excitations and Reactions on Solid Surfaces explores the fundamental nature of dynamics on solid surfaces Attempts are made to reveal various aspects of elementary processes in excitations and reactions on solid surfaces by recent theoretical and experimental developments of the subjects such as molecular beams interacting with surfaces ion beam scattering laser induced dynamical processes electronically induced dynamical processes and optical properties of solid surfaces This volume is divided into three parts Part I is concerned mainly with the rich reaction dynamics on potential energy surfaces Part II is devoted to the interplay of excitations In Part III new and rapidly developing methods are introduced An Essential Guide to Electronic Material Surfaces and Interfaces Leonard J. Brillson, 2016-08-01 An Essential Guide to Electronic Material Surfaces and Interfaces is a streamlined yet comprehensive introduction that covers the basic physical properties of electronic materials the experimental techniques used to measure them and the theoretical methods used to understand predict and design them Starting with the fundamental electronic properties of semiconductors and electrical measurements of semiconductor interfaces this text introduces students to the importance of characterizing and controlling macroscopic electrical properties by atomic scale techniques The chapters that follow present the full range of surface and interface techniques now being used to characterize electronic optical chemical and structural properties of electronic materials including semiconductors insulators nanostructures and organics The essential physics and chemistry underlying each technique is described in sufficient depth for students to master the fundamental principles with numerous examples to illustrate the strengths and limitations for specific applications As well as references to the most authoritative sources for broader discussions the text includes internet links to additional examples mathematical derivations tables and literature references for the advanced student as well as professionals in these fields This textbook fills a gap in the existing literature for an entry level course that provides the physical properties experimental techniques and theoretical methods essential for students and professionals to understand and participate in solid state electronics physics and materials science

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Principles of Surface Physics Friedhelm Bechstedt,2012-12-06 In recent decades surface and interface physics has become an increasingly important subdiscipline within the physics of condensed matter as well as an interdisciplinary eld between physics crystallography chemistry biology and materials science There are several driving forces for the development of the eld among them semiconductor technology new materials epitaxy and chemical catalysis The electrical and optical properties of nanostructures based on di erent semiconductors are governed by the interfaces or at least by the presence of interfaces A microscopic understanding of the growth processes requires the investigation of the surface processes at an atomic level Elementary processes on surfaces such as adsorption and desorption play a key role in the understanding of heterogeneous catalysis During the course of the surface investigations it has been possible to observe a dramatic progress in the ability to study surfaces of materials in general and on a microscopic scale in particular There are two main reasons for this progress From the experimental point of view it is largely due to the development and availability of new types of powerful microscopes Sp tacular advances in techniques such as scanning tunneling microscopy now allow us to observe individual atoms on surfaces and to follow their paths with a clarity unimaginable a few years ago From the theoretical point of view or rather the viewpoint of simulation progress is related to the wide availability of computers and the dramatic increase of their power

Surface Science Kurt W. Kolasinski,2012-04-30 Surface science has evolved from being a sub field of chemistry or physics and has now established itself as an interdisciplinary topic Knowledge has developed sufficiently that we can now understand catalysis from a surface science perspective No where is the underpinning nature of surface science better illustrated than with nanoscience Now in its third edition this successful textbook aims to provide students with an understanding of chemical transformations and the formation of structures at surfaces The chapters build from simple to more advanced principles with each featuring exercises

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Chemical sensors are integral to the automation of myriad industrial processes and everyday monitoring of such activities as public safety engine performance medical therapeutics and many more This 4 volume reference work covering simulation and modeling will serve as the perfect complement to Momentum Press's 6 volume reference works *Chemical Sensors Fundamentals of Sensing Materials and Chemical Sensors Comprehensive Sensor Technologies* which present detailed information related to materials technologies construction and application of various devices for chemical sensing This 4 volume comprehensive reference work analyzes approaches used for computer simulation and modeling in various fields of chemical sensing and discusses various phenomena important for chemical sensing such as bulk and surface diffusion adsorption surface reactions sintering conductivity mass transport interphase interactions etc In this work it will be shown that theoretical modeling and simulation of the processes being a basic for chemical sensors operation could provide considerable progress in choosing both optimal materials and optimal configurations of sensing elements for using in chemical sensors Each simulation and modeling volume in the present series reviews modeling principles and approaches peculiar to specific groups of materials and devices applied for chemical sensing Volume 2 *Conductometric Type Sensors* covers phenomenological modeling and computational design of conductometric chemical sensors based on nanostructured materials such as metal oxides carbon nanotubes and graphene This volume contains an overview of the approaches used to quantitatively evaluate characteristics of sensitive structures in which electric charge transport depends on the interaction between the surfaces of the structures and chemical compounds in the surrounding **Springer Handbook of Surface Science** Mario Rocca, Talat Rahman, Luca Vattuone, 2021-01-14 This handbook delivers an up to date comprehensive and authoritative coverage of the broad field of surface science encompassing a range of important materials such as metals semiconductors insulators ultrathin films and supported nanoobjects Over 100 experts from all branches of experiment and theory review in 39 chapters all major aspects of solid state surfaces from basic principles to applications including the latest ground breaking research results Beginning with the fundamental background of kinetics and thermodynamics at surfaces the handbook leads the reader through the basics of crystallographic structures and electronic properties to the advanced topics at the forefront of current research These include but are not limited to novel applications in nanoelectronics

nanomechanical devices plasmonics carbon films catalysis and biology The handbook is an ideal reference guide and instructional aid for a wide range of physicists chemists materials scientists and engineers active throughout academic and industrial research

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