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Surface Science

An Introduction



Springer

Surface Science An Introduction Advanced Texts In Physics

Axel Groß



Surface Science An Introduction Advanced Texts In Physics:

Surface Science K. Oura, V.G. Lifshits, A.A. Saranin, A.V. Zotov, M. Katayama, 2013-03-14 Designed as a textbook for advanced undergraduate and graduate students in engineering and physical sciences who are seeking a general overview of surface science this book also provides the necessary background for researchers just starting out in the field It covers all the most important aspects of modern surface science from the experimental background and crystallographic basics to modern analytical techniques and applications to thin films and nanostructures All topics are presented in a concise and clear form accessible to a beginner At the same time the coverage is comprehensive and at a high technical level with emphasis on the fundamental physical principles Numerous examples references practice exercises and problems complement this remarkably complete treatment which will also serve as an excellent reference for researchers and practitioners Surface Science K. Oura, V. G. Lifshits, Alexander Saranin, 2014-01-15 *Theoretical Surface Science* Axel Groß, 2013-03-09 Recent years have witnessed tremendous progress in the theoretical treatment of surfaces and processes on surfaces A variety of surface properties can now be described from first principles i e without invoking any empirical parameters In this book the theoretical concepts and computational tools necessary and relevant for a microscopic approach to the theoretical description of surface science is presented Based on the fundamental theoretical entity the Hamiltonian a hierarchy of theoretical methods is introduced Furthermore a detailed discussion of surface phenomena is given and comparisons made to experimental results made making the book suitable for both graduate students and for experimentalists seeking an overview of the theoretical concepts in surface science *21st Century Surface Science* Phuong Pham, Pratibha Goel, Samir Kumar, Kavita Yadav, 2020-11-26 Surface sciences elucidate the physical and chemical aspects of the surfaces and interfaces of materials Of great interest in this field are nanomaterials which have recently experienced breakthroughs in synthesis and application As such this book presents some recent representative achievements in the field of surface science including synthesis techniques surface modifications nanoparticle based smart coatings wettability of different surfaces physics chemistry characterizations and growth kinetics of thin films In addition the book illustrates some of the important applications related to silicon CVD graphene graphene oxide transition metal dichalcogenides carbon nanotubes carbon nanoparticles transparent conducting oxide and metal oxides **Semiconductors** Martin I. Pech-Canul, Nuggehalli M. Ravindra, 2019-01-17 This book is a practical guide to optical optoelectronic and semiconductor materials and provides an overview of the topic from its fundamentals to cutting edge processing routes to groundbreaking technologies for the most recent applications The book details the characterization and properties of these materials Chemical methods of synthesis are emphasized by the authors throughout the publication Describes new materials and updates to older materials that exhibit optical optoelectronic and semiconductor behaviors Covers the structural and mechanical aspects of the optical optoelectronic and semiconductor materials for meeting mechanical property and safety requirements Includes discussion of

the environmental and sustainability issues regarding optical optoelectronic and semiconductor materials from processing to recycling

Solid State Theory, Volume 2 Gerd Czocholl, 2023-08-29 The present volume 2 covers advanced topics in theoretical solid state physics and thus ties in directly with the fundamentals Solids in external fields or more generally in non equilibrium and deviations from the ideal 3 dimensional crystal structure surfaces impurities low dimensional structures quantum dots etc are treated The consideration of collective phenomena such as superconductivity and magnetism complete the presentation The reader is assumed to have the contents of Volume 1 electrons and phonons in ideal crystals Bloch theorem population number representation or 2nd quantization electron electron and electron phonon interaction as well as the basic knowledge of general theoretical physics mechanics electrodynamics quantum mechanics and statistical physics usually available after a bachelor s degree in physics Volume 2 is thus ideally suited for students in the master s program in physics who wish to specialize in experimental or theoretical solid state physics Addressing current topics e g Kondo effect fractional quantum Hall effect 2 dimensional crystals such as graphene giant magnetoresistance effect and others provides an optimal transition to modern research The new edition has been completely revised expanded with numerous exercises and existing redesigned with the associated solutions now included in the book

Surface Science John Hudson, 2013-10-22 The whole field of surface science is covered in this work Starting with a description of the structure and thermodynamics of clean surfaces the book goes on to discuss kinetic theory of gases and molecular beam formation This is followed by a largesection on gas surface interactions and another major section on energetic particle surface interactions The final chapter provides the background to crystal nucleation and growth The approach adopted is interdisciplinary and slanted towards the experimental side with practical analytical techniques being used to illustrate general principles

Fuel for the Future George Domazetis, 2019-08-09 We are currently facing a global problem caused by increasing levels of greenhouse gases mostly derived from fossil fuels resulting in climate change Communities want an affordable and secure supply of power alongside emissions reductions Coal electricity generation offers a secure and affordable supply but currently this comes with high emissions This volume examines efforts by both industry and governments to develop a cleaner use of low rank coals It presents leading research on creating affordable high quality fuel for efficient power generation with a trajectory toward affordable zero emissions production This book will be of interest to organisations active in developing clean usage of coal and which conduct research on low emissions power It will also contribute to policy development of low and zero emissions coal power generation particularly in regions with abundant deposits of low cost brown coal lignite and subbituminous coal including the US China Europe India Indonesia and Australia

Solid State Physics David Schmool, 2016-08-09 This broad introduction to some of the principal areas of the physical phenomena in solid materials includes the electronic mechanical magnetic and optical properties of all materials These subjects are treated in depth and provide the reader with the tools necessary for an understanding of the varied phenomena of materials Particular emphasis is

given to the reaction of materials to specific stimuli such as the application of electric and magnetic fields The final chapter of the book provides a broad introduction to nanotechnologies and uses some of the main tools of solid state physics to explain the behavior of nanomaterials and why they are of importance for future technologies *Subject Guide to Books in Print*, 1997

Surface Science Techniques J.M. Walls, Robin Smith, 2013-10-22 This volume provides a comprehensive and up to the minute review of the techniques used to determine the nature and composition of surfaces Originally published as a special issue of the Pergamon journal *Vacuum* it comprises a carefully edited collection of chapters written by specialists in each of the techniques and includes coverage of the electron and ion spectroscopies as well as the atom imaging methods such as the atom probe field ion microscope and the scanning tunnelling microscope Surface science is an important area of study since the outermost surface layers play a crucial role in processes such as catalysis adhesion wear and corrosion with applications in metallurgy thin films and surface coatings the chemicals and polymer industries and microelectronics to name a few This book covers those techniques used routinely for surface analysis as well as those employed for more fundamental scientific studies It will be of interest to university research workers graduate students and to industrial scientists solving practical problems

Properties and Processes at the Nanoscale - Nanomechanics of Material Behavior: Volume 1424 Peter Anderson, Neville Moody, David Bahr, Ralph Spolenak, 2012-07-09 Symposium SS Properties and Processes at the Nanoscale Nanomechanics of Material Behavior was held November 28 December 2 at the 2011 MRS Fall Meeting in Boston Massachusetts For two decades the MRS meetings have had a significant presence in hosting symposia focused on nanomechanical behavior of materials This symposium continued this strong tradition by focusing on both methods of testing and the resulting unique properties in small volumes of materials Two main thrusts are evident from the field at this time the use of small scale tests to examine a locally small structure or defect i e something you cannot accomplish with a macroscopic test and the use of nanomechanics to determine nm scale mechanisms that control macroscopic mechanical behavior This selection of papers from the symposium highlight the breadth of work presented at the symposium

Theoretical Surface Science Axel Groß, 2009-09-16 Progress continues in the theoretical treatment of surfaces and processes on surfaces based on first principles methods i e without invoking any empirical parameters In this book the theoretical concepts and computational tools necessary and relevant for a microscopic approach to the theoretical description of surface science is presented together with a detailed discussion of surface phenomena This makes the book suitable for both graduate students and for experimentalists seeking an overview of the theoretical concepts in surface science This second enlarged edition has been carefully revised and updated a new chapter on surface magnetism is included and novel developments in theoretical surface science are addressed

Modern Techniques of Surface Science D. P. Woodruff, T. A. Delchar, 1994-03-03 This is a fully revised and expanded edition of a very successful and widely used book It describes the physical basis of all the principal and most of the more specialised techniques currently employed in the study

of well characterised solid surfaces The coverage of each technique illustrated with selected examples is underpinned by discussion of the relevant physical principles and the complementary aspects of the various methods are also described Throughout the emphasis is on understanding the concepts involved rather than on an exhaustive review of applications The book will be of great use to final year undergraduate and postgraduate students in physics chemistry and materials science It will also be valuable to established researchers in any area of surface science concerned with the acquisition and analysis of experimental data

Introduction to Surface Physics M. Prutton, 1994 *Introduction to Surface Chemistry and Catalysis* Gabor A. Somorjai, Yimin Li, 2010-06-08

Now updated the current state of development of modern surface science Since the publication of the first edition of this book molecular surface chemistry and catalysis science have developed rapidly and expanded into fields where atomic scale and molecular information were previously not available This revised edition of *Introduction to Surface Chemistry and Catalysis* reflects this increase of information in virtually every chapter It emphasizes the modern concepts of surface chemistry and catalysis uncovered by breakthroughs in molecular level studies of surfaces over the past three decades while serving as a reference source for data and concepts related to properties of surfaces and interfaces The book opens with a brief history of the evolution of surface chemistry and reviews the nature of various surfaces and interfaces encountered in everyday life New research in two crucial areas nanomaterials and polymer and biopolymer interfaces is emphasized while important applications in tribology and catalysis producing chemicals and fuels with high turnover and selectivity are addressed The basic concepts surrounding various properties of surfaces such as structure thermodynamics dynamics electrical properties and surface chemical bonds are presented The techniques of atomic and molecular scale studies of surfaces are listed with references to up to date review papers For advanced readers this book covers recent developments in in situ surface analysis such as high pressure scanning tunneling microscopy ambient pressure X ray photoelectron spectroscopy and sum frequency generation vibrational spectroscopy SFG Tables listing surface structures and data summarizing the kinetics of catalytic reactions over metal surfaces are also included New to this edition A discussion of new physical and chemical properties of nanoparticles Ways to utilize new surface science techniques to study properties of polymers reaction intermediates and mobility of atoms and molecules at surfaces Molecular level studies on the origin of the selectivity for several catalytic reactions A microscopic understanding of mechanical properties of surfaces Updated tables of experimental data A new chapter on soft surfaces polymers and biointerfaces

Introduction to Surface Chemistry and Catalysis serves as a textbook for undergraduate and graduate students taking advanced courses in physics chemistry engineering and materials science as well as researchers in surface science catalysis science and their applications

Forthcoming Books Rose Arny, 2003-04 Surface Science , 1975 **The Journal of Physical Chemistry** , 1927 **Catalogue for the Academic Year** Naval Postgraduate School (U.S.), 1970

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