

M.C. Desjonquères — D. Spanjaard

Concepts in Surface Physics

Second Edition



Springer

Concepts In Surface Physics Springer Series In Surface Sciences

Klaus Wandelt



Concepts In Surface Physics Springer Series In Surface Sciences:

Concepts in Surface Physics M-C. Desjonqueres, D. Spanjaard, 2012-12-06 This textbook is intended as an introduction to surface science for graduate students. It began as a course of lectures that we gave at the University of Paris Orsay. Its main objectives are twofold: to provide the reader with a comprehensive presentation of the basic principles and concepts of surface physics and to show the usefulness of these concepts in the real world by referring to experiments. It starts at a rather elementary level since it only requires a knowledge of solid state physics, quantum mechanics, thermodynamics, and statistical physics, which does not exceed the background usually taught to students early in their university courses. However, since it finally reaches an advanced level, we have tried to render it as self-contained as possible so that it remains accessible even to an unexperienced reader. Furthermore, the emphasis has been put on a pedagogical level rather than on a technical level. In this spirit, whenever possible, models which are simplified but which contain the features that are essential to the appearance of the phenomena have been set up and solved in a completely analytical way. The logic should be transparent enough for the reader, although most often a more rigorous solution would need the use of a computer. To conclude, we have tried to give an account of surface physics which should be of use to the theoretician as well as to the experimentalist. The following comments can be made on the contents of this book.

Concepts in Surface Physics Marie-Catherine Desjonquères, Daniel Spanjaard, 1993. Now in its second edition, this successful book provides a tutorial treatment of the main concepts of the physics of crystal surfaces. Emphasis is placed on simplified calculations and the corresponding detailed analytical derivations that are able to throw light on the most important physical mechanisms underlying surface science.

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.

Physics of Surfaces Alain Hoareau, 1996. *Stress and Strain in Epitaxy: Theoretical Concepts, Measurements and Applications* J.-P. Deville, M. Hanbücken, 2001-07-03. This book contains keynote lectures which have been delivered at the 3rd Porquerolles School on Surface Science, SIR2000. Surfaces, Interfaces, Relaxation. The aim of this school was to review the main concepts necessary to understand the role of interfacial stress, strain, and relaxation in crystal growth by heteroepitaxy. By bringing together scientists from various fields, physics,

chemistry materials science and engineering which daily use complementary methodological approaches experiment theory modelization the school allowed to offer 11 multidisciplinary courses This book addresses the state of art of stress in epitaxial materials it describes the various methods to measure the atomic displacement and stress fields it reviews the spectroscopic methods necessary to map the interface chemistry it details the theoretical methods and concepts which are needed to predict them and it questions the fact that stress and relaxation can induce specific properties in magnetism catalysis electron transport and so on The field of stress and strain in heteroepitaxy has know large developments during the last ten years New techniques have been used to set up new devices in which functionalities are obtained through structuration at a nanometer scale Large scale integration and reduced dimensions are the key factors to optimize the achievements of these devices Already used in industry quantum wells magnetic sensors these devices are obtained by molecular beam epitaxy sputtering or pulsed laser deposition Their reduced dimensionality increased the number of surfaces and interfaces the role of which has to be precised Experimentalists try now to associate materials having very different crystal structure and chemical composition The elastic stress stored in the device can induce various phenomena which have to be evaluated understood and predicted The book intends also to show that many questions are still in debate

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

Introduction to Surface and Thin Film Processes

John Venables,2000-08-31 This book covers the experimental and theoretical understanding of surface and thin film processes It presents a unique description of surface processes in adsorption and crystal growth including bonding in metals and semiconductors Emphasis is placed on the strong link between science and technology in the description of and research for new devices based on thin film and surface science Practical experimental design sample preparation and analytical techniques are covered including detailed discussions of Auger electron spectroscopy and microscopy Thermodynamic and kinetic models of structure are emphasised throughout The book provides extensive leads into practical and research literature as well as resources on the World Wide Web see <http://venables.asu.edu/book> Each chapter contains problems which aim to develop awareness of the subject and the methods used Aimed as a graduate textbook this book will also be useful as a sourcebook for graduate students researchers and practitioners in physics chemistry materials science and engineering

Encyclopedia of Interfacial Chemistry

,2018-03-29 Encyclopedia of Interfacial Chemistry Surface Science and Electrochemistry Seven Volume Set summarizes current fundamental knowledge of interfacial chemistry bringing 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 **Surface and Interface Science, Volumes 1 and 2** Klaus Wandelt, 2012-04-16 Covering interface science from a novel surface science perspective this unique handbook offers a comprehensive overview of this burgeoning field Eight topical volumes cover basic concepts and methods elemental and composite surfaces solid gas solid liquid and inorganic biological interfaces as well as applications of surface science in nanotechnology materials science and molecular electronics With its broad scope and clear structure it is ideal as a reference for scientists in the field as well as an introduction for newcomers *Surface Science* Kurt W. Kolasinski, 2002-03-29 Offers a comprehensive modern introduction to the subject taking a truly pedagogical approach This text will provide the reader with a well rounded understanding not only of how chemistry works at surfaces but also how to understand and probe the dynamics of surface reactions

Fuel your quest for knowledge with is thought-provoking masterpiece, Dive into the World of **Concepts In Surface Physics Springer Series In Surface Sciences** . This educational ebook, conveniently sized in PDF (Download in PDF: *), is a gateway to personal growth and intellectual stimulation. Immerse yourself in the enriching content curated to cater to every eager mind. Download now and embark on a learning journey that promises to expand your horizons. .

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