#### MATERIALS SCIENCE SERIES

# SURFACE PHYSICS OF MATERIALS

VIOLUME II

J. M. BLAKELY

# **Surface Physics Of Materials**

John McDonald Blakely

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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 <u>Diffraction and Imaging Techniques in Material Science P2</u> S Amelinckx, 2012-12-02 Diffraction and Imaging Techniques in Material Science reviews recent developments in diffraction and imaging techniques used in the study of materials It discusses advances in high voltage electron microscopy low energy electron diffraction LEED X ray and neutron diffraction X ray topography mirror electron microscopy and field emission microscopy Organized into five parts encompassing nine chapters this volume begins with an overview of the dynamical theory of the diffraction of high energy electrons in crystals and methodically introduces the reader to dynamical diffraction in perfect and imperfect crystals inelastic scattering of electrons in crystals and X ray production It then explores back scattering effects the technical features of high voltage electron microscopes and surface characterization by LEED Other chapters focus on the kinematical theory of X ray diffraction techniques and interpretation in X ray topography and interpretation of the contrast of the images of defects on X ray topographs The book also describes theory and applications of mirror electron microscopy surface studies

by field emission of electrons field ionization and field evaporation and gas surface interactions before concluding with a discussion on lattice imperfections Scientists and students taking courses on diffraction and solid state electron microscopy will benefit from this book

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