

Reflection Electron Microscopy and Spectroscopy for Surface Analysis

by Zhong Lin Wang

Introduction

In 1986, E. Ruska was awarded the Nobel Physics Prize for his pioneering work of building the world's first transmission electron microscope (TEM) in the late 1920's. The mechanism of TEM was originally based on the physical principle that a charged particle could be focused by magnetic lenses, so that a "magnifier" similar to an optic microscope could be built. The discovery of wave properties of electrons really revolutionized people's understanding about the potential applications of an TEM. In the last 60 years TEM has experienced a revolutionary development both in theory and electron optics, and has become one of the key research tools for materials characterization (Hirsch et al., 1956; Buseck et al., 1989). The point-to-point image resolution currently available in TEM is better than 0.2 nm, comparable to the interatomic distances in solids.

High resolution TEM is one of the key techniques for real-space imaging of defect structures in crystalline materials. Quantitative structure determination is becoming feasible, particularly with the following technical advances. The installation of an energy-filtering system on an TEM has made it possible to form images and diffraction patterns using electrons with different energy-losses. Accurate structure analysis is possible using the purely elastically scattered electrons, the scattering of which can be exactly simulated using the available theories. The traditional method of recording images on film is being replaced by digital imaging with the use of a charge coupled device (CCD) camera, which has a large dynamical range with single electron detection sensitivity. Thus, electron diffraction patterns and images can be recorded linearly in intensity, and a quantitative fitting is feasible between an experimentally observed image and a theoretically simulated image. This is the future direction of electron microscopy, which allows quantitative structure determination with an accuracy to be comparable to x-ray diffraction. A modern TEM is a versatile machine which not only can explore the crystal structure using imaging and diffraction techniques but also can perform high-spatial resolution

Reflection Electron Microscopy And Spectroscopy For Surface Analysis

Ernst Bauer

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Reflection Electron Microscopy And Spectroscopy For Surface Analysis:

Reflection Electron Microscopy and Spectroscopy for Surface Analysis Zhong Lin Wang, 2005-08-22 This book is a comprehensive review of the theories techniques and applications of reflection electron microscopy REM reflection high energy electron diffraction RHEED and reflection electron energy loss spectroscopy REELS The book is divided into three parts diffraction imaging and spectroscopy The text is written to combine basic techniques with special applications theories with experiments and the basic physics with materials science so that a full picture of RHEED and REM emerges An entirely self contained study the book contains much invaluable reference material including FORTRAN source codes for calculating crystal structures data and electron energy loss spectra in different scattering geometries This and many other features makes the book an important and timely addition to the materials science literature for researchers and graduate students in physics and materials science

Surface Microscopy with Low Energy Electrons Ernst Bauer, 2014-07-10 This book written by a pioneer in surface physics and thin film research and the inventor of Low Energy Electron Microscopy LEEM Spin Polarized Low Energy Electron Microscopy SPLEEM and Spectroscopic Photo Emission and Low Energy Electron Microscopy SPELEEM covers these and other techniques for the imaging of surfaces with low energy slow electrons These techniques also include Photoemission Electron Microscopy PEEM X ray Photoemission Electron Microscopy XPEEM and their combination with microdiffraction and microspectroscopy all of which use cathode lenses and slow electrons Of particular interest are the fundamentals and applications of LEEM PEEM and XPEEM because of their widespread use Numerous illustrations illuminate the fundamental aspects of the electron optics the experimental setup and particularly the application results with these instruments *Surface Microscopy with Low Energy Electrons* will give the reader a unified picture of the imaging diffraction and spectroscopy methods that are possible using low energy electron microscopes

Surface Analysis Methods in Materials Science D.J. O'Connor, Brett A. Sexton, Roger St.C. Smart, 2013-04-17 The idea for this book stemmed from a remark by Philip Jennings of Murdoch University in a discussion session following a regular meeting of the Australian Surface Science group He observed that a text on surface analysis and applications to materials suitable for final year undergraduate and postgraduate science students was not currently available Furthermore the members of the Australian Surface Science group had the research experience and range of coverage of surface analytical techniques and applications to provide a text for this purpose A list of techniques and applications to be included was agreed at that meeting The list intended readership of the book has been broadened since the early discussions particularly to encompass industrial users but there has been no significant alteration in content The editors in consultation with the contributors have agreed that the book should be prepared for four major groups of readers senior undergraduate students in chemistry physics metallurgy materials science and materials engineering postgraduate students undertaking research that involves the use of analytical techniques groups of scientists and engineers attending training courses and workshops on the application of surface

analytical techniques in materials science industrial scientists and engineers in research and development seeking a description of available surface analytical techniques and guidance on the most appropriate techniques for particular applications The contributors mostly come from Australia with the notable exception of Ray Browning from Stanford University

Surface Analysis Methods in Materials Science John O'Connor, 2003-04-23 This guide to the use of surface analysis techniques now in its second edition has expanded to include more techniques current applications and updated references It outlines the application of surface analysis techniques to a broad range of studies in materials science and engineering The book consists of three parts an extensive introduction to the concepts of surface structure and composition a techniques section describing 19 techniques and a section on applications This book is aimed at industrial scientists and engineers in research and development The level and content of this book make it ideal as a course text for senior undergraduate and postgraduate students in materials science materials engineering physics chemistry and metallurgy

Surface Analysis John C. Vickerman, Ian S. Gilmore, 2011-08-10 This completely updated and revised second edition of Surface Analysis The Principal Techniques deals with the characterisation and understanding of the outer layers of substrates how they react look and function which are all of interest to surface scientists Within this comprehensive text experts in each analysis area introduce the theory and practice of the principal techniques that have shown themselves to be effective in both basic research and in applied surface analysis Examples of analysis are provided to facilitate the understanding of this topic and to show readers how they can overcome problems within this area of study

Ion Spectroscopies for Surface Analysis Alvin W. Czanderna, David M. Hercules, 2012-12-06 Determining the elemental composition of surfaces is an essential measurement in characterizing solid surfaces At present many approaches may be applied for measuring the elemental and molecular composition of a surface Each method has particular strengths and limitations that often are directly connected to the physical processes involved Typically atoms and molecules on the surface and in the near surface region may be excited by photons electrons ions or neutrals and the detected particles are emitted ejected or scattered ions or electrons The purpose of this book is to bring together a discussion of the surface compositional analysis that depends on detecting scattered or sputtered ions and the methods emphasized are those where instruments are commercially available for carrying out the analysis For each topic treated the physical principles instrumentation qualitative analysis artifacts quantitative analysis applications opportunities and limitations are discussed The first chapter provides an overview of the role of elemental composition in surface science compositional depth profiling stimulation by an electric field electrons neutrals or photons and detection of ions and then stimulation by ions and detection of ions electrons photons or neutrals

Handbook of Spectroscopy G nter Gauglitz, David S. Moore, 2014-06-09 This second thoroughly revised updated and enlarged edition provides a straightforward introduction to spectroscopy showing what it can do and how it does it together with a clear integrated and objective account of the wealth of information that may be derived from spectra

It also features new chapters on spectroscopy in nano dimensions nano optics and polymer analysis Clearly structured into sixteen sections it covers everything from spectroscopy in nanodimensions to medicinal applications spanning a wide range of the electromagnetic spectrum and the physical processes involved from nuclear phenomena to molecular rotation processes In addition data tables provide a comparison of different methods in a standardized form allowing readers to save valuable time in the decision process by avoiding wrong turns and also help in selecting the instrumentation and performing the experiments These four volumes are a must have companion for daily use in every lab *Handbook of Nitride*

Semiconductors and Devices, Materials Properties, Physics and Growth Hadis Morkoç, 2009-07-30 The three volumes of this handbook treat the fundamentals technology and nanotechnology of nitride semiconductors with an extraordinary clarity and depth They present all the necessary basics of semiconductor and device physics and engineering together with an extensive reference section Volume 1 deals with the properties and growth of GaN The deposition methods considered are hydride VPE organometallic CVD MBE and liquid high pressure growth Additionally extended defects and their electrical nature point defects and doping are reviewed RHEED Transmission Mode and Pole Figures Gwo-Ching Wang, Toh-Ming Lu, 2013-12-11

This unique book covers the fundamental principle of electron diffraction basic instrumentation of RHEED definitions of textures in thin films and nanostructures mechanisms and control of texture formation and examples of RHEED transmission mode measurements of texture and texture evolution of thin films and nanostructures Also presented is a new application of RHEED in the transmission mode called RHEED pole figure technique that can be used to monitor the texture evolution in thin film growth and nanostructures and is not limited to single crystal epitaxial film growth Details of the construction of RHEED pole figures and the interpretation of observed pole figures are presented Materials covered include metals semiconductors and thin insulators This book also Presents a new application of RHEED in the transmission mode Introduces a variety of textures from metals semiconductors compound semiconductors and their characteristics in RHEED pole figures Provides examples of RHEED measurements of texture and texture evolution construction of RHEED pole figures and interpretation of observed pole figures RHEED Transmission Mode and Pole Figures Thin Film and Nanostructure Texture Analysis is ideal for researchers in materials science and engineering and nanotechnology 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

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