

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

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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

Electron Energy-Loss Spectroscopy in the Electron Microscope R.F. Egerton, 2013-03-09 to the Second Edition Since the first 1986 edition of this book the numbers of installations researchers and research publications devoted to electron energy loss spectroscopy EELS in the electron microscope have continued to expand There has been a trend towards intermediate accelerating voltages and field emission sources both favorable to energy loss spectroscopy and several types of energy filtering microscope are now available commercially Data acquisition hardware and software based on personal computers have become more convenient and user friendly Among university researchers much thought has been given to the interpretation and utilization of near edge fine structure Most importantly there have been many practical applications of EELS This may reflect an increased awareness of the potentialities of the technique but in many cases it is the result of skill and persistence on the part of the experimenters often graduate students To take account of these developments the book has been extensively revised over a period of two years and more than a third of it rewritten I have made various minor changes to the figures and added about 80 new ones Except for a few small changes the notation is the same as in the first edition with all equations in SI units

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

Recent Advances in Analytical Spectroscopy Keiichiro Fuwa, 2016-07-29 Recent Advances in Analytical Spectroscopy covers the joint meeting of the Ninth International Conference on Atomic Spectroscopy and the 22nd Colloquium Spectroscopicum Internationale held at the New Otani Hotel and Sophia University Tokyo Japan on September 4-8 1981 The joint meeting features 446 including 74 invited lectures and 39 poster sessions This book is divided into 26 chapters which reflect the analytical spectroscopic topics covered in 20 sessions including plasma emission spectrometry DC arc spark and other emission spectrometry and hydride generation technique for atomic spectrometry Other chapters deal with furnace atomic absorption spectrometry Zeeman atomic absorption spectrometry atomic spectrometric detection systems for separation analysis atomic fluorescence and scattering spectroscopy flame atomic absorption spectrometry spectroscopy for chemical state analysis spectroscopy for surface and interface analysis The remaining chapters discuss the application of computers in analytical spectroscopy developments in laser spectroscopy application to life science environmental and geochemical applications X ray analysis UV VIS spectroscopy IR and Raman spectroscopy magnetic resonance spectroscopy mass spectrometry and photoacoustic spectrometry This book will be of value to analytical chemists and related scientists and researchers

Electron Microscopy S. Amelinckx, Dirk van Dyck, J. van Landuyt, Gustaaf van Tendeloo, 2008-09-26 Derived from the successful three volume Handbook of Microscopy this book provides a broad survey of the physical fundamentals and principles of all modern techniques of electron microscopy This reference work on the method most often used for the characterization of surfaces offers a competent comparison of the feasibilities of the latest developments in this field of research Topics include Stationary Beam Methods Transmission Electron Microscopy Electron Energy Loss Spectroscopy Convergent Electron Beam Diffraction Low Energy Electron Microscopy Electron Holographic Methods Scanning Beam Methods Scanning Transmission Electron Microscopy Scanning Auger and XPS Microscopy Scanning Microanalysis Imaging Secondary Ion Mass Spectrometry Magnetic Microscopy Scanning Electron Microscopy with Polarization Analysis Spin Polarized Low Energy Electron Microscopy Materials scientists as well as any surface scientist will find this book an invaluable source of information for the principles of electron microscopy

Encyclopedia of Materials Characterization Charles A. Evans, 1992 This is a comprehensive volume on analytical techniques used in materials science for the characterization of surfaces interfaces and thin films This flagship volume is a unique stand alone reference for materials science practitioners process engineers students and anyone with a need to know about the capabilities

available in materials analysis An encyclopedia of 50 concise articles this book will also be a practical companion to the forthcoming books in the series **Knovel Characterization of Metals and Alloys** Paul Holloway, 2010 A better understanding of the microstructure of metals and alloys has led to great advances in the performance and useful applications of these the oldest of mankind's engineered materials This book in the Materials Characterizations series focuses on the particular molecular and atomistic properties of metals insofar as how they affect the different techniques for measuring and analyzing internal structure surface structure and chemical physical properties It provides a vital connection between commonly used characterization techniques like Scanning Electron Microscopy and how such can be used in the various ways that metals are processed machined and used Review of relevant mechanical and chemical properties of metals and how they affect characterization techniques Characterization techniques used for melting and casting machining and metallic thin films processes Concise summaries of major characterization technologies for metals and alloys including Auger Electron Spectroscopy Energy Dispersive X Ray Spectroscopy Neutron Activation Analysis Scanning Electron Microscopy and Transmission Electron Spectroscopy *Electron Microscopy, 1984* Á Csanády, P. Röhlich, Dezső Szabó, 1984 *JJAP*, 2005

Recent Advances in Analytical Spectroscopy Keiichirō Fuwa, International Union of Pure and Applied Chemistry. Analytical Chemistry Division, 1982 **Encyclopedia of Materials Science and Engineering Supplementary** R.W. Cahn, Michael Berliner Bever, 1988 The continuing rapid development of materials science and engineering is graphically reflected in the 130 articles in this second Supplementary Volume to the highly acclaimed Encyclopedia of Materials Science and Engineering Under the guidance of a distinguished Editorial Advisory Board Professor Robert Cahn has commissioned over 160 authorities worldwide to provide new articles in the expanding areas of composite materials advanced and traditional ceramics electronic and superconducting materials elastomers and polymer applications wood and paper industrial minerals materials characterization surfaces and interfaces fundamental physical metallurgy and metals processing production and fabrication All articles are extensively cross referenced subject indexed and provided with select bibliographies for further reading Special features of this and subsequent Supplementary Volumes are a cumulating analytical table of contents and subject index which together will enable the reader to access information in the current or previous Supplementary Volumes without reference to earlier tables of indexes Complete alphabetical lists of titles and contributors are also provided The continuing publication of biennial Supplementary Volumes will ensure that the Encyclopedia of Materials Science and Engineering remains the single most comprehensive overview of recent research and development in all aspects of materials science and engineering **Survey of Semiconductor Physics, Electrons and Other Particles in Semiconductors** Karl W. Böer, 2002-04-05 A comprehensive treatment of the fundamentals of semiconductor physics and materials science The first edition of the Survey of Semiconductor Physics set the standard for the multifaceted exploration of semiconductor physics Now Dr Karl Böer one of the world's leading experts in solid state

physics with assistance from a team of the fields top researchers expands this coverage in the Second Edition Completely updated and substantially expanded the Survey of Semiconductor Physics Second Edition covers the basic elements in the entire field of semiconductor physics emphasizing the materials and surface science involved The Second Edition uses similar theoretical approaches and analyses for the basic material classes crystalline amorphous quantum structures and organics The first volume provides thorough coverage of the structure of semiconductors including Phonons Energy bands Photons as they interact with the semiconductor and other particles Defects Generation and recombination Kinetics In both volumes extensive appendices simplify searches for important formulae and tables An elaborate word index and reference listings allow readers to use the reference in multiple ways to discover expanding literature to explore similarities and connecting principles in other fields to find out how others in adjacent fields came up with intriguing solutions to similar problems and to obtain a broad overview of the entire field of semiconductor physics The Cumulative Book Index ,1997 A world list of books in the English language **Physics Briefs** ,1993 **Surface and Interface Characterization by Electron Optical Methods** Ugo Valdre,2013-03-09 The importance of real space imaging and spatially resolved spectroscopy in many of the most significant problems of surface and interface behaviour is almost self evident To join the expertise of the traditional surface scientist with that of the electron microscopist has however been a slow and difficult process In the past few years remarkable progress has been achieved including the development of new techniques of scanning transmission and reflection imaging as well as low energy microscopy all carried out in greatly improved vacuum conditions Most astonishing of all has been the advent of the scanning tunneling electron microscope providing atomic resolution in a manner readily compatible with most surface science diagnostic procedures The problem of beam damage though often serious is increasingly well understood so that we can assess the reliability and usefulness of the results which can now be obtained in catalysis studies and a wide range of surface science applications These new developments and many others in more established surface techniques are all described in this book based on lectures given at a NATO Advanced Study Institute held in Erice Sicily at Easter 1987 It is regretted that a few lectures on low energy electron diffraction and channeling effects could not be included Fifteen lecturers from seven different Countries and 67 students from 23 Countries and a wide variety of backgrounds attended the school **Scanning Electron Microscopy** ,1985 Vols for 1968 77 include the proceedings of the annual Scanning Electron Microscope Symposium sponsored by the IIT Research Institute and other workshops *Encyclopedia of Materials Science and Engineering* ,1990 **Journal of Electron Microscopy Technique** ,1988 Physical Methods of Chemistry Bryant W. Rossiter,Roger C Baetzold,1993 *Sira Abstracts & Reviews* ,1968

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