

Rolf Erni



Aberration-Corrected Imaging in Transmission Electron Microscopy

An Introduction
Second Edition

Imperial College Press

Aberration Corrected Imaging In Transmission Electron Microscopy

Earl J. Kirkland



Aberration Corrected Imaging In Transmission Electron Microscopy:

Aberration-corrected Imaging In Transmission Electron Microscopy: An Introduction (2nd Edition) Rolf Erni, 2015-03-23
Aberration Corrected Imaging in Transmission Electron Microscopy provides an introduction to aberration corrected atomic resolution electron microscopy imaging in materials and physical sciences. It covers both the broad beam transmission mode TEM transmission electron microscopy and the scanning transmission mode STEM scanning transmission electron microscopy. The book is structured in three parts. The first part introduces the basics of conventional atomic resolution electron microscopy imaging in TEM and STEM modes. This part also describes limits of conventional electron microscopes and possible artefacts which are caused by the intrinsic lens aberrations that are unavoidable in such instruments. The second part introduces fundamental electron optical concepts and thus provides a brief introduction to electron optics. Based on the first and second parts of the book, the third part focuses on aberration correction; it describes the various aberrations in electron microscopy and introduces the concepts of spherical aberration correctors and advanced aberration correctors including correctors for chromatic aberration. This part also provides guidelines on how to optimize the imaging conditions for atomic resolution STEM and TEM imaging. This second edition has been completely revised and updated in order to incorporate the very recent technological and scientific achievements that have been realized since the first edition appeared in 2010. *Aberration-corrected Imaging in Transmission Electron Microscopy* Rolf Erni, 2015. *Aberration-Corrected Imaging in Transmission Electron Microscopy* Rolf Erni, 2010. *Aberration-corrected Imaging in Transmission Electron Microscopy* Rolf Erni, 2015. This book provides an introduction to aberration corrected atomic resolution electron microscopy imaging in materials and physical sciences. It covers both the broad beam transmission mode TEM transmission electron microscopy and the scanning transmission mode STEM scanning transmission electron microscopy.

Aberration-Corrected Analytical Transmission Electron Microscopy Rik Brydson, 2011-08-02. The book is concerned with the theory background and practical use of transmission electron microscopes with lens correctors that can correct the effects of spherical aberration. The book also covers a comparison with aberration correction in the TEM and applications of analytical aberration corrected STEM in materials science and biology. This book is essential for microscopists involved in nanoscale and materials microanalysis, especially those using scanning transmission electron microscopy and related analytical techniques such as electron diffraction, x-ray spectrometry, EDXS and electron energy loss spectroscopy (EELS).

Modeling Nanoscale Imaging in Electron Microscopy Thomas Vogt, Wolfgang Dahmen, Peter Binev, 2012-03-02. This book presents advances in nanoscale imaging capabilities of scanning transmission electron microscopes along with superresolution techniques, special denoising methods, application of mathematical statistical learning theory and compressed sensing. **Advances in Imaging and Electron Physics**, 2012-12-02. *Advances in Imaging and Electron Physics* features cutting edge articles on the physics of electron devices, especially semiconductor devices, particle optics at high and low

energies microlithography image science and digital image processing electromagnetic wave propagation electron microscopy and the computing methods used in all these domains Contributions from leading authorities Informs and updates on all the latest developments in the field

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

Handbook of Solid State Chemistry, 6 Volume Set Richard Dronskowski, Shinichi Kikkawa, Andreas Stein, 2017-10-23 This most comprehensive and unrivaled compendium in the field provides an up to date account of the chemistry of solids nanoparticles and hybrid materials Following a valuable introductory chapter reviewing important synthesis techniques the handbook presents a series of contributions by about 150 international leading experts the Who s Who of solid state science Clearly structured in six volumes it collates the knowledge available on solid state chemistry starting from the synthesis and modern methods of structure determination Understanding and measuring the physical properties of bulk solids and the theoretical basis of modern computational treatments of solids are given ample space as are such modern trends as nanoparticles surface properties and heterogeneous catalysis Emphasis is placed throughout not only on the design and structure of solids but also on practical applications of these novel materials in real chemical situations

Progress in Nanoscale Characterization and Manipulation Rongming Wang, Chen Wang, Hongzhou Zhang, Jing Tao, Xuedong Bai, 2018-08-30 This book focuses on charged particle optics and microscopy as well as their applications in the materials sciences Presenting a range of cutting edge theoretical and methodological advances in electron microscopy and microanalysis and examining their crucial roles in modern materials research it offers a unique resource for all researchers who work in ultramicroscopy and or materials research The book addresses the growing opportunities in this field and introduces readers to the state of the art in charged particle microscopy techniques It showcases recent advances in scanning electron microscopy transmission electron microscopy and helium ion microscopy including advanced spectroscopy spherical corrected microscopy focused ion imaging and in situ microscopy Covering these and other essential topics the book is intended to facilitate the development of microscopy techniques inspire young researchers and make a valuable

contribution to the field Springer Handbook of Microscopy Peter W. Hawkes, John C.H. Spence, 2019-11-02 This book features reviews by leading experts on the methods and applications of modern forms of microscopy The recent awards of Nobel Prizes awarded for super resolution optical microscopy and cryo electron microscopy have demonstrated the rich scientific opportunities for research in novel microscopies Earlier Nobel Prizes for electron microscopy the instrument itself and applications to biology scanning probe microscopy and holography are a reminder of the central role of microscopy in modern science from the study of nanostructures in materials science physics and chemistry to structural biology Separate chapters are devoted to confocal fluorescent and related novel optical microscopies coherent diffractive imaging scanning probe microscopy transmission electron microscopy in all its modes from aberration corrected and analytical to in situ and time resolved low energy electron microscopy photoelectron microscopy cryo electron microscopy in biology and also ion microscopy In addition to serving as an essential reference for researchers and teachers in the fields such as materials science condensed matter physics solid state chemistry structural biology and the molecular sciences generally the Springer Handbook of Microscopy is a unified coherent and pedagogically attractive text for advanced students who need an authoritative yet accessible guide to the science and practice of microscopy **Advanced Computing in Electron Microscopy** Earl J. Kirkland, 2020-03-09 This updated and revised edition of a classic work provides a summary of methods for numerical computation of high resolution conventional and scanning transmission electron microscope images At the limits of resolution image artifacts due to the instrument and the specimen interaction can complicate image interpretation Image calculations can help the user to interpret and understand high resolution information in recorded electron micrographs The book contains expanded sections on aberration correction including a detailed discussion of higher order multipole aberrations and their effect on high resolution imaging new imaging modes such as ABF annular bright field and the latest developments in parallel processing using GPUs graphic processing units as well as updated references Beginning and experienced users at the advanced undergraduate or graduate level will find the book to be a unique and essential guide to the theory and methods of computation in electron microscopy **Advances in Imaging and Electron Physics** Peter W. Hawkes, 2011-08-08 Advances in Imaging and Electron Physics merges two long running serials Advances in Electronics and Electron Physics and Advances in Optical and Electron Microscopy This series features extended articles on the physics of electron devices especially semiconductor devices particle optics at high and low energies microlithography image science and digital image processing electromagnetic wave propagation electron microscopy and the computing methods used in all these domains Contributions from leading international scholars and industry experts Discusses hot topic areas and presents current and future research trends Invaluable reference and guide for physicists engineers and mathematicians **Direct Imaging of Light Elements in Aberration-Corrected Scanning Transmission Electron Microscopy**, 2009
Scanning Transmission Electron Microscopy Stephen J. Pennycook, Peter D. Nellist, 2011-03-24 Scanning transmission

electron microscopy has become a mainstream technique for imaging and analysis at atomic resolution and sensitivity and the authors of this book are widely credited with bringing the field to its present popularity Scanning Transmission Electron Microscopy STEM Imaging and Analysis will provide a comprehensive explanation of the theory and practice of STEM from introductory to advanced levels covering the instrument image formation and scattering theory and definition and measurement of resolution for both imaging and analysis The authors will present examples of the use of combined imaging and spectroscopy for solving materials problems in a variety of fields including condensed matter physics materials science catalysis biology and nanoscience Therefore this will be a comprehensive reference for those working in applied fields wishing to use the technique for graduate students learning microscopy for the first time and for specialists in other fields of microscopy

In-Situ Transmission Electron Microscopy Experiments Renu Sharma, 2023-05-15 In Situ Transmission Electron Microscopy Experiments Design and execute cutting edge experiments with transmission electron microscopy using this essential guide In situ microscopy is a recently discovered and rapidly developing approach to transmission electron microscopy TEM that allows for the study of atomic and or molecular changes and processes while they are in progress Experimental specimens are subjected to stimuli that replicate near real world conditions and their effects are observed at a previously unprecedented scale Though in situ microscopy is becoming an increasingly important approach to TEM there are no current texts combining an up to date overview of this cutting edge set of techniques with the experience of in situ TEM professionals In Situ Transmission Electron Microscopy Experiments meets this need with a work that synthesizes the collective experience of myriad collaborators It constitutes a comprehensive guide for planning and performing in situ TEM measurements incorporating both fundamental principles and novel techniques Its combination of technical detail and practical how to advice makes it an indispensable introduction to this area of research In Situ Transmission Electron Microscopy Experiments readers will also find Coverage of the entire experimental process from method selection to experiment design to measurement and data analysis Detailed treatment of multimodal and correlative microscopy data processing and machine learning and more Discussion of future challenges and opportunities facing this field of research In Situ Transmission Electron Microscopy Experiments is essential for graduate students post doctoral fellows and early career researchers entering the field of in situ TEM

Liquid Cell Electron Microscopy Frances M. Ross, 2017 2 6 2 Electrodes for Electrochemistry

High-Resolution Electron Microscopy John C. H. Spence, 2013-09-12 This book gives the basic theoretical background needed to understand how electron microscopes allow us to see atoms together with highly practical advice for electron microscope operators It covers the usefulness of seeing atoms in the semiconductor industry in materials science in condensed matter physics and in biology

Advances in Imaging and Electron Physics, 2009-06-12 The invention of the electron microscope more than 70 years ago made it possible to visualize a new world far smaller than anything that could be seen with the traditional microscope The biologist could study viruses and the components of cells the materials

scientist could study the structure of metals and alloys and many other substances and especially their defects But even the electron microscope had limits and truly atomic structure was still too small to be observed directly The so called limit of resolution of the microscope was well understood but attempts to use the necessary correctors were unsuccessful until the late 1990s Such correctors now equip many microscopes in Europe the USA and Japan and the results are extremely impressive Moreover microscopists feel that they are only at the beginning of a new era of subatomic microscopic imaging In the present volume we have brought together the principal contributors instrument designers and microscopists to discuss this topic in depth First book on the subject of correctors Well known contributors from academia and microscope manufacturers Provides an ideal starting point for preparing funding proposals

Scanning Transmission Electron Microscopy Alina Bruma, 2020-12-20 Scanning Transmission Electron Microscopy is focused on discussing the latest approaches in the recording of high fidelity quantitative annular dark field ADF data It showcases the application of machine learning in electron microscopy and the latest advancements in image processing and data interpretation for materials notoriously difficult to analyze using scanning transmission electron microscopy STEM It also highlights strategies to record and interpret large electron diffraction datasets for the analysis of nanostructures This book Discusses existing approaches for experimental design in the recording of high fidelity quantitative ADF data Presents the most common types of scintillator photomultiplier ADF detectors along with their strengths and weaknesses Proposes strategies to minimize the introduction of errors from these detectors and avenues for dealing with residual errors Discusses the practice of reliable multiframe imaging along with the benefits and new experimental opportunities it presents in electron dose or dose rate management Focuses on supervised and unsupervised machine learning for electron microscopy Discusses open data formats community driven software and data repositories Proposes methods to process information at both global and local scales and discusses avenues to improve the storage transfer analysis and interpretation of multidimensional datasets Provides the spectrum of possibilities to study materials at the resolution limit by means of new developments in instrumentation Recommends methods for quantitative structural characterization of sensitive nanomaterials using electron diffraction techniques and describes strategies to collect electron diffraction patterns for such materials This book helps academics researchers and industry professionals in materials science chemistry physics and related fields to understand and apply computer science derived analysis methods to solve problems regarding data analysis and interpretation of materials properties

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