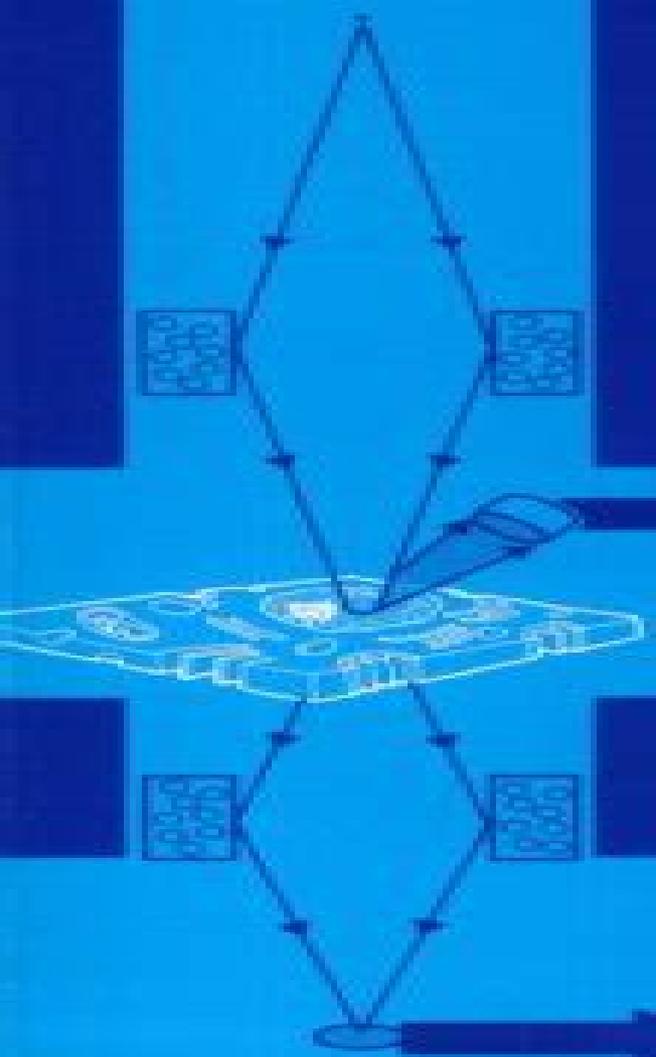


# X-ray Microanalysis in the Electron Microscope

J. A. Chandler



## Practical Methods in Electron Microscopy

Editor: Audrey M. Glauert



NORTH-HOLLAND

# X Ray Microanalysis In The Electron Microscope Practical Methods In Electron

**Joseph I. Goldstein, Dale E.  
Newbury, Joseph R. Michael, Nicholas  
W.M. Ritchie, John Henry J. Scott, David  
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**Scanning Electron Microscopy and X-Ray Microanalysis** Joseph Goldstein,Dale E. Newbury,David C. Joy,Charles E. Lyman,Patrick Echlin,Eric Lifshin,Linda Sawyer,J.R. Michael,2012-12-06

In the decade since the publication of the second edition of Scanning Electron Microscopy and X Ray Microanalysis there has been a great expansion in the capabilities of the basic scanning electron microscope SEM and the x ray spectrometers The emergence of the variable pressure environmental SEM has enabled the observation of samples containing water or other liquids or vapor and has allowed for an entirely new class of dynamic experiments that of direct observation of chemical reactions in situ Critical advances in electron detector technology and computer aided analysis have enabled structural crystallographic analysis of specimens at the micrometer scale through electron backscatter diffraction EBSD Low voltage operation below 5 kV has improved x ray spatial resolution by more than an order of magnitude and provided an effective route to minimizing sample charging High resolution imaging has continued to develop with a more thorough understanding of how secondary electrons are generated The field emission gun SEM with its high brightness advanced electron optics which minimizes lens aberrations to yield an effective nanometer scale beam and through the lens detector to enhance the measurement of primary beam excited secondary electrons has made high resolution imaging the rule rather than the exception Methods of x ray analysis have evolved allowing for better measurement of specimens with complex morphology multiple thin layers of different compositions and rough specimens and particles Digital mapping has transformed classic x ray area scanning a purely qualitative technique into fully quantitative compositional mapping

**Scanning Electron Microscopy and X-Ray Microanalysis** Joseph I. Goldstein,Dale E. Newbury,Joseph R. Michael,Nicholas W.M. Ritchie,John Henry J. Scott,David C. Joy,2017-11-17 This thoroughly revised and updated Fourth Edition of a time honored text provides the reader with a comprehensive introduction to the field of scanning electron microscopy SEM energy dispersive X ray spectrometry EDS for elemental microanalysis electron backscatter diffraction analysis EBSD for micro crystallography and focused ion beams Students and academic researchers will find the text to be an authoritative and scholarly resource while SEM operators and a diversity of practitioners engineers technicians physical and biological scientists clinicians and technical managers will find

that every chapter has been overhauled to meet the more practical needs of the technologist and working professional. In a break with the past, this Fourth Edition de-emphasizes the design and physical operating basis of the instrumentation, including the electron sources, lenses, detectors, etc. In the modern SEM, many of the low-level instrument parameters are now controlled and optimized by the microscope's software, and user access is restricted. Although the software control system provides efficient and reproducible microscopy and microanalysis, the user must understand the parameter space wherein choices are made to achieve effective and meaningful microscopy, microanalysis, and micro-crystallography. Therefore, special emphasis is placed on beam energy, beam current, electron detector characteristics and controls, and ancillary techniques such as energy-dispersive x-ray spectrometry (EDS) and electron backscatter diffraction (EBSD). With 13 years between the publication of the third and fourth editions, new coverage reflects the many improvements in the instrument and analysis techniques. The SEM has evolved into a powerful and versatile characterization platform in which morphology, elemental composition, and crystal structure can be evaluated simultaneously. Extension of the SEM into a dual-beam platform incorporating both electron and ion columns allows precision modification of the specimen by focused ion beam milling. New coverage in the Fourth Edition includes the increasing use of field emission guns and SEM instruments with high-resolution capabilities, variable pressure SEM, operation theory, and measurement of x-rays with high-throughput silicon drift detector (SDD) EDS x-ray spectrometers. In addition to powerful vendor-supplied software to support data collection and processing, the microscopist can access advanced capabilities available in free, open-source software platforms, including the National Institutes of Health (NIH) ImageJ/Fiji for image processing and the National Institute of Standards and Technology (NIST) DTSA II for quantitative EDS x-ray microanalysis and spectral simulation, both of which are extensively used in this work. However, the user has a responsibility to bring intellect, curiosity, and a proper skepticism to information on a computer screen and to the entire measurement process. This book helps you to achieve this goal. Realigns the text with the needs of a diverse audience, from researchers and graduate students to SEM operators and technical managers. Emphasizes practical, hands-on operation of the microscope, particularly user selection of the critical operating parameters to achieve meaningful results. Provides step-by-step overviews of SEM, EDS, and EBSD, and checklists of critical issues for SEM imaging, EDS x-ray microanalysis, and EBSD crystallographic measurements. Makes extensive use of open-source software: NIH ImageJ/Fiji for image processing and NIST DTSA II for quantitative EDS x-ray microanalysis and EDS spectral simulation. Includes case studies to illustrate practical problem solving. Covers Helium ion scanning microscopy. Organized into relatively self-contained modules; no need to read it all to understand a topic. Includes an online supplement: an extensive Database of Electron-Solid Interactions, which can be accessed on SpringerLink in Chapter 3.

*Scanning Electron Microscopy and X-Ray Microanalysis* Joseph Goldstein, Dale E. Newbury, Patrick Echlin, David C. Joy, Alton D. Romig Jr., Charles E. Lyman, Charles Fiori, Eric Lifshin, 2012-12-06. In the last decade since the publication of the first edition of *Scanning Electron*

Microscopy and X ray Microanalysis there has been a great expansion in the capabilities of the basic SEM and EPMA High resolution imaging has been developed with the aid of an extensive range of field emission gun FEG microscopes The magnification ranges of these instruments now overlap those of the transmission electron microscope Low voltage microscopy using the FEG now allows for the observation of noncoated samples In addition advances in the development of x ray wavelength and energy dispersive spectrometers allow for the measurement of low energy x rays particularly from the light elements B C N O In the area of x ray microanalysis great advances have been made particularly with the phi rho z Ij pz technique for solid samples and with other quantitation methods for thin films particles rough surfaces and the light elements In addition x ray imaging has advanced from the conventional technique of dot mapping to the method of quantitative compositional imaging Beyond this new software has allowed the development of much more meaningful displays for both imaging and quantitative analysis results and the capability for integrating the data to obtain specific information such as precipitate size chemical analysis in designated areas or along specific directions and local chemical inhomogeneities

**Practical Methods in Electron Microscopy: Chandler, J. A. X-ray microanalysis in the electron microscope** Audry M. Glauert, 1972 Scanning Electron Microscopy, X-Ray Microanalysis, and Analytical Electron Microscopy Charles E. Lyman, Dale E. Newbury, Joseph Goldstein, David B. Williams, Alton D. Romig Jr., John Armstrong, Patrick Echlin, Charles Fiori, David C. Joy, Eric Lifshin, Klaus-Rüdiger Peters, 2012-12-06

During the last four decades remarkable developments have taken place in instrumentation and techniques for characterizing the microstructure and microcomposition of materials Some of the most important of these instruments involve the use of electron beams because of the wealth of information that can be obtained from the interaction of electron beams with matter The principal instruments include the scanning electron microscope electron probe x ray microanalyzer and the analytical transmission electron microscope The training of students to use these instruments and to apply the new techniques that are possible with them is an important function which has been carried out by formal classes in universities and colleges and by special summer courses such as the ones offered for the past 19 years at Lehigh University Laboratory work which should be an integral part of such courses is often hindered by the lack of a suitable laboratory workbook While laboratory workbooks for transmission electron microscopy have been in existence for many years the broad range of topics that must be dealt with in scanning electron microscopy and microanalysis has made it difficult for instructors to devise meaningful experiments The present workbook provides a series of fundamental experiments to aid in hands on learning of the use of the instrumentation and the techniques It is written by a group of eminently qualified scientists and educators The importance of hands on learning cannot be overemphasized

*Biological Electron Microscopy* Michael J. Dykstra, 1992-11-30 In this practical text the author covers the fundamentals of biological electron microscopy including fixation instrumentation and darkroom work to provide an excellent introduction to the subject for the advanced undergraduate or graduate student

*Clay Mineralogy:*

*Spectroscopic and Chemical Determinative Methods* M.H. Repacholi, 2012-12-06 A knowledge of clay is important in many spheres of scientific endeavor particularly in natural sciences such as geology mineralogy and soil science but also in more applied areas like environmental and materials science Over the last two decades research into clay mineralogy has been strongly influenced by the development and application of a number of spectroscopic techniques which are now able to yield information about clay materials at a level of detail that previously would have seemed inconceivable This information relates not only to the precise characterization of the individual clay components themselves but also to the ways in which these components interact with a whole range of adsorbate molecules At present however the fruits of this research are to be found principally in a somewhat widely dispersed form in the scientific journals and it was thus considered to be an appropriate time to bring together a compilation of these spectroscopic techniques in a way which would make them more accessible to the non specialist This is the primary aim of this book The authors of the various chapters first describe the principles and instrumentation of the individual spectroscopic techniques assuming a minimum of prior knowledge and then go on to show how these methods have been usefully applied to clay mineralogy in its broadest context

**A Beginner's Handbook in Biological Transmission Electron Microscopy** Brenda S. Weakley, 1981 Simplified basic theory of transmission electron microscopy The processing of tissues The preparation of ultrathin sections for electron microscopy Staining of biological materials for electron microscopy Routine operation of the electron microscope Darkroom procedures Some general suggestions for the study of ultrastructure Ultrastructural cytochemistry Autoradiography with the electron microscope A brief synopsis of other techniques for the electron microscope Routine maintenance of the electron microscope

*Atlas of Invertebrate Viruses* Jean R. Adams, Jean R. Bonami, 2017-09-18 The Purpose of this book is to provide a helpful reference for invertebrate pathologist virologists and electron microscopists on invertebrate viruses Investigators from around the world have shared their expertise in order to introduce scientists to the exciting advances in invertebrate virology

X-ray Microanalysis in Electron Microscopy for Biologists A. John Morgan, 1985 This compact guide provides a straightforward introduction to electron microprobe x ray analysis a nondestructive technique that greatly facilitates the study of the chemistry of cells Assuming no prior knowledge of electron optics Morgan explains the principle of x ray production and detection describes the various methods for converting measured x ray intensities to element concentrations in thin specimens and directs the reader to primary sources for more definitive practical guidelines A painless introduction to a powerful laboratory technique this book will be a useful aid for cell biologists biological electron microscopists and electrolyte physiologists

*Electron Microscopy* John J. Bozzola, Lonnie Dee Russell, 1999 New edition of an introductory reference that covers all of the important aspects of electron microscopy from a biological perspective including theory of scanning and transmission specimen preparation darkroom digital imaging and image analysis laboratory safety interpretation of images and an atlas of ultrastructure Generously illustrated with bandw line drawings and photographs

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