



# The Electron Microprobe

**P.J. Potts**



## **The Electron Microprobe:**

**The Electron Microprobe** Theodore David McKinley, Kurt F. J. Heinrich, D. B. Wittry, David Beryle Wittry, 1966

**Practical Scanning Electron Microscopy** Joseph Goldstein, 2012-12-06 In the spring of 1963 a well known research institute made a market survey to assess how many scanning electron microscopes might be sold in the United States They predicted that three to five might be sold in the first year a commercial SEM was available and that ten instruments would saturate the marketplace In 1964 the Cambridge Instruments Stereoscan was introduced into the United States and in the following decade over 1200 scanning electron microscopes were sold in the U S alone representing an investment conservatively estimated at 50 000 100 000 each Why were the market surveyers wrong Perhaps because they asked the wrong persons such as electron microscopists who were using the highly developed transmission electron microscopes of the day with resolutions from 5 10 Å These scientists could see little application for a microscope that was useful for looking at surfaces with a resolution of only then about 200 Å Since that time many scientists have learned to appreciate that information content in an image may be of more importance than resolution per se The SEM with its large depth of field and easily that often require little or no sample preparation interpreted images of samples tion for viewing is capable of providing significant information about rough samples at magnifications ranging from 50 X to 100 000 X This range overlaps considerably with the light microscope at the low end and with the electron microscope at the high end

**Electron Microprobe Analysis** S. J. B. Reed, 1997-07-10 This 1993 book gives a comprehensive account of both experimental and theoretical aspects of electron microprobe analysis and is an extensively updated version of the seminal first edition published in 1975 The design and operation of the instrument including the electron column and both wavelength and energy dispersive X ray spectrometers are covered in the first part of the book Experimental procedures for qualitative and quantitative analysis using both types of spectrometer are then discussed Matrix ZAF corrections as required for quantitative analysis are treated in some detail from both theoretical and practical viewpoints Special considerations applying to the analysis of light elements atomic number below 10 are covered in a separate chapter The emphasis throughout is on a sound understanding of principles and the treatment is applicable equally to the electron microprobe in its classical form and to scanning electron microscopes fitted with X ray spectrometers

**Scanning Electron Probe Microanalysis** Kurt F. J. Heinrich, 1967 The combination of electron microprobe x ray emission spectrometry with the scanning techniques first developed for the scanning electron microscope permits using the scanning electron probe as a microscope sensitive to elemental composition This technique is particularly useful in the many applications in which spatial distribution of one or more elements in a specimen is more important than local composition Although oscilloscope representation of probe scanning is usually obtained by the simple technique of producing a dot of light for each arriving photon more sophisticated scanning techniques such as expanded contrast registration and concentration mapping can provide more quantitative

information Signals other than x rays such as target current electron backscatter or cathodoluminescence may be used for image formation Electron beam scanning can also be performed in a discontinuous fashion so that the electron beam irradiates in succession a number of spots arranged in a square or rectangular pattern and the number of photons registered in each position is retained in the memory of a multichannel analyzer The application of these diverse scanning techniques is illustrated Author

**Testing of Microelectronics. the Electron Microprobe and the Scanning Electron Microscope** Rolando Garcia, NEW YORK UNIV N Y SCHOOL OF ENGINEERING AND SCIENCE., 1967 An electron probe is a finely focused beam of electrons accelerated through a potential of 5 to 40kv When this beam strikes a substance it induces several phenomena whose effects can yield information about the irradiated area This report is concerned with two types of electron probe instruments the Electron Microprobe Analyzer and the Scanning Electron Microscope The principles of operation capabilities and design considerations for each instrument are discussed Their application to the testing of microelectronic circuits and components is described by examples taken from current technical literature and by figures and photographs which illustrate the results that can be obtained with these instruments A tabulation containing a partial list of commercially available microprobe analyzers and scanning electron microscopes together with their specifications and a bibliography of books periodicals and patents on electron probe instruments and related topics are included Author *Electron Probe Microanalysis* A. J. Tousimis, L. Marton, 2013-11-06 Electron Probe Microanalysis presents a collection of reviews on various aspects of electron probe microanalysis This book discusses the model for quantitative electron probe analysis Organized into 14 chapters this book begins with an overview of the various kinds of microanalysis followed by a discussion of the advantages that can be derived from using the electron probe method This text then examines the various applications of backscattered electron and specimen current methods for quantitative analysis Other chapters consider the fundamental concepts for quantitative electron probe microanalysis utilizing pure elements as standards This book discusses as well the absolute method of quantitative chemical analysis by emission X ray spectroscopy The final chapter deals with the main advantage of the Kossel technique in the study of the thermodynamic and mechanical characteristics of crystals This book is a valuable resource for scientists and research workers Non specialists who need information on this excellent analytical tool will also find this book useful *Fourth National Conference on Electron Microprobe Analysis*, 1969

**The Electron Microprobe Analyzer as a Research Instrument** E. Eichen, F. Kunz, J. Tabock, 1970 The use of an electron microprobe as a research tool will be considered The theory of operation of this instrument will be briefly discussed The different possible modes of data presentation will be given These will include graphical representation on a recorder video representation of scanned area using backscattered electrons absorbed electrons and X rays and the accumulation of quantitative data on scalers Qualitative semiquantitative and quantitative analysis will be included in the discussion Also included will be the importance of specimen preparation in microprobe analysis and a number of different examples for various types of

specimens will be given These will include such materials as metals glasses ceramics and semiconductors Consideration will be given to the analysis of thin films as well as bulk materials Some of the problems encountered in the analysis of thin films will be discussed as well as ways of circumventing these problems Examples will be given to illustrate the type of problems and the means of approach in cases where qualitative analysis semiquantitative analysis and quantitative analysis are desired In the latter case the different types of corrective procedures which can be used will be discussed These include correction for absorption fluorescence and atomic number

[Electron Microprobe Analysis and Scanning Electron Microscopy in Geology](#) S. J. B. Reed, 2005-08-25 Originally published in 2005 this book covers the closely related techniques of electron microprobe analysis EMPA and scanning electron microscopy SEM specifically from a geological viewpoint Topics discussed include principles of electron target interactions electron beam instrumentation X ray spectrometry general principles of SEM image formation production of X ray maps showing elemental distributions procedures for qualitative and quantitative X ray analysis both energy dispersive and wavelength dispersive the use of both true electron microprobes and SEMs fitted with X ray spectrometers and practical matters such as sample preparation and treatment of results Throughout there is an emphasis on geological aspects not mentioned in similar books aimed at a more general readership The book avoids unnecessary technical detail in order to be easily accessible and forms a comprehensive text on EMPA and SEM for geological postgraduate and postdoctoral researchers as well as those working in industrial laboratories

*The Electron Microprobe* Theodore David McKinley, 1966

*Microprobe Techniques in the Earth Sciences* Philip J. Potts, J.F. Bowles, Stephen J. Reed, R. Cave, 2012-12-06 30% discount for members of The Mineralogical Society of Britain and Ireland This text covers the range of microanalytical techniques available for the analysis of geological samples principally in research applications Each chapter is written in a clear informative style and has a tutorial element designed to introduce each technique for the beginning and experienced researcher alike

[The Electron Microprobe. Applications in Metallurgy](#) V. Leroy, L. Habraken, United Kingdom Atomic Energy Authority, 1964

**A Handbook of Silicate Rock Analysis** P.J. Potts, 2013-11-11 without an appreciation of what happens in between The techniques available for the chemical analysis of silicate rocks have undergone a revolution over the last 30 years However to use an analytical technique most effectively No longer is the analytical balance the only instrument used it is essential to understand its analytical characteristics in for quantitative measurement as it was in the days of classi particular the excitation mechanism and the response of the cal gravimetric procedures A wide variety of instrumental signal detection system In this book these characteristics techniques is now commonly used for silicate rock analysis have been described within a framework of practical ana lytical applications especially for the routine multi element including some that incorporate excitation sources and detec tion systems that have been developed only in the last few analysis of silicate rocks All analytical techniques available years These instrumental developments now permit a wide for routine silicate rock analysis are discussed including range of trace elements to be

determined on a routine basis some more specialized procedures Sufficient detail is In parallel with these exciting advances users have tended included to provide practitioners of geochemistry with a firm to become more remote from the data production process base from which to assess current performance and in some This is in part an inevitable result of the widespread intro cases future developments

Energy Dispersive X-ray Analysis in the Electron Microscope DC Bell,AJ Garratt-Reed,2003-07-10 This book provides an in depth description of x ray microanalysis in the electron microscope It is sufficiently detailed to ensure that novices will understand the nuances of high quality EDX analysis Includes information about hardware design as well as the physics of x ray generation absorption and detection and most post detection data processing Details on electron optics and electron probe formation allow the novice to make sensible adjustments to the electron microscope in order to set up a system which optimises analysis It also helps the reader determine which microanalytical method is more suitable for their planned application

**The Electron Microprobe** T. D. McKinley,K. F. J. Heinrich,David Beryle Wittry,1966 Electron Microprobe Facility, University of Oregon , Presents information on the Electron Microprobe Facility of the Department of Geological Sciences at the University of Oregon in Eugene Offers information on the Facility s electron microprobe and the scanning electron microscope Includes a list of the investigators of the Facility Contains a glossary of related terms and a collection of scanning electron microscopy SEM images Links to other electron microbeam facilities

Quantitative Electron Microprobe Analysis Roger Theisen,2013-11-11 **The Use of the Electron Microprobe in Glass Science and Technology** Norbert J. Kreidl,University of Missouri--Rolla,1966 *Methods of Soil Analysis* Soil Science Society of America,April L. Ulery,L. Richard Drees,2008 The latest installment in the well received *Methods of Soil Analysis* series *Methods of Soil Analysis Part 5 Mineralogical Methods* presents valuable techniques that will enable researchers to analyze mineralogy for a wide variety of applications An understanding of mineralogical composition provides crucial insight into the fundamental behavior of soils and their response to environmental conditions and management Highlights include extensive coverage of new techniques such as X ray absorption and diffuse reflectance spectroscopy and updated chapters on thermal analysis and selective dissolution methodologies Each chapter provides the basic principles of the method guides the reader through the method itself and finally assists in the interpretation and analysis of results collected

**The Electron Microprobe** Electrochemical Society (U.S.). Electrothermics and Metallurgy Division,1966

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