



The Electron Microprobe

**Rolando Garcia, NEW YORK UNIV N Y
SCHOOL OF ENGINEERING AND
SCIENCE.**

The Electron Microprobe:

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

The Use of the Electron Probe Microanalyzer in Materials Research and Development Lawrence Kobren, 1968. The electron probe microanalyzer, a versatile tool for the analysis of areas as small as one micron in diameter, has been used at Goddard Space Flight Center in applications ranging from materials research to analysis of failures in mechanical parts. Methods of using the probe and representative results obtained are illustrated by several examples that include bonding of thermoelectric materials, alloy development, and analysis of materials failure. **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 to 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 to 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 obtained images that often require little or no sample preparation, interpreted images of samples for viewing is capable of providing significant information about rough samples at magnifications ranging from 50X to 100,000X. This range overlaps considerably with the light microscope at the low end and with the electron microscope at the high end. **Fourth National Conference on Electron Microprobe Analysis**, 1969

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 Quantitative Electron Microprobe Analysis Roger Theisen, 2013-11-11 Quantitative Electron Microprobe Analysis Roger Theisen, 1965-01-01 The Electron Microprobe X ray Analyzer conceived by R C S L I G and A C I L E I in 1949 has been developed as an extremely powerful tool in spectrochemical analysis for a wide range of applications ranging from qualitative elementary distribution studies to highly localized quantitative analysis on a one micron scale With the increasing number of versatile instruments commercially available the domain of applications in metallurgy solid state physics mineralogy and geology biology and medicine arts and archeology is rapidly expanding particularly because reliable quantitative analyses can be achieved It is well established that in multicomponent specimens the relative x ray intensity generated by the electron bombardment is the intensity ratio of the characteristic x ray radiation emitted under identical experimental conditions by the specimen and a calibration standard is not directly correlated to the elementary mass concentration The use of a wide scale of carefully prepared homogeneous calibration standards is generally very tedious and restricted to binary systems For more complex specimens the conversion of recorded x ray intensity ratios to elementary mass concentration requires besides careful selection of experimental conditions an adequate correction calculation to take account of the various physical phenomena occurring in the target electron retardation electron backscattering x ray excitation efficiency fluorescence enhancement by characteristic and continuous radiation and x ray mass absorption *Applications of the Electron Microprobe to Chemical Analysis*, 1964 *The Electron Microprobe* Electrochemical Society (U.S.). Electrothermics and Metallurgy Division, 1966

Electron Probe Quantitation K.F.J. Heinrich, D. Newbury, 1991-06-30 In 1968 the National Bureau of Standards NBS published Special Publication 298 Quantitative Electron Probe Microanalysis which contained proceedings of a seminar held on the subject at NBS in the summer of 1967 This publication received wide interest that continued through the years far beyond expectations The present volume also the result of a gathering of international experts in 1988 at NBS now the National Institute of Standards and Technology NIST is intended to fulfill the same purpose After years of substantial agreement on the procedures of analysis and data evaluation several sharply differentiated approaches have developed These are described in this publication with all the details required for practical application Neither the editors nor NIST wish to

endorse any single approach Rather we hope that their exposition will stimulate the dialogue which is a prerequisite for technical progress Additionally it is expected that those active in research in electron probe microanalysis will appreciate more clearly the areas in which further investigations are warranted

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 *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

The Use of the Electron Microprobe in Glass Science and Technology Norbert J. Kreidl, University of Missouri--Rolla, 1966

Third National Conference on Electron Microprobe Analysis , 1968

Combined Electron Microscope, Electron Diffraction, and Electron Microprobe Analysis of Identical Microstructures in the Debond Area of a Dissimilar Metal Joint L. G. Bostwick, R. Burton, 1971

The Electron Microprobe T. D. McKinley, K. F. J. Heinrich, David Beryle Wittry, 1966

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