

# **ELECTRON PROBE QUANTITATION**

**Edited by  
K.F.J. Heinrich and Dale E. Newbury**

# Electron Probe Quantitation

**Michal Rosen-Zvi**



## **Electron Probe Quantitation:**

**Electron Probe Quantitation** K.F.J. Heinrich,D. Newbury,2013-06-29 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 Quantitative Electron-probe Microanalysis Victor D. Scott,Glyn Love,1983 Quantitative Electron Probe Microanalysis Kurt F. J. Heinrich,1968 **Quantitative Electron Microprobe Analysis** Roger Theisen,2013-11-11 Catalog of National Bureau of Standards Publications, 1966-1976: Key word index United States. National Bureau of Standards. Technical Information and Publications Division,1978 *NBS Special Publication* ,1968 Quantitative Electron Probe Microanalysis Kurt F. J. Heinrich,1968 **Electron Beam Microanalysis** Donald Robert Beaman,J. A. Isasi,1972 Quantitative Electron Probe Microanalysis Using a Scanning Electron Microscope and an X-ray Energy Spectrometer Canada. Department of National Defence. Research and Development Branch,Veinot, Dwight Earl,Defence Research Establishment Atlantic,1980 A procedure was developed to utilize a scanning electron microscope and X ray energy spectrometer to obtain quantitative elemental analysis The precision and accuracy of an X ray intensity ratio data processing technique has been evaluated In general the quantitative results obtained were accurate to better than or 1 percent of the certified elemental compositions of standard reference materials for all elements present at greater than 2 weight percent Results were reproducible to better than 1 percent of the determined percentage compositions Elements present at less than 0.1 weight percent composition and elements having atomic numbers less than 11 sodium were not detected Author Introduction to Quantitative Cytochemistry International Tutorial on Quantitative Cytochemistry,1966 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 *Electron Beam X-ray Microanalysis* Kurt F. J. Heinrich,1981 **Quantitative Scanning Electron Microscopy** D. B. Holt,1974 **Journal of Electron Microscopy Technique** ,1988 **Basic Methods in Biological X-ray Microanalysis** Godfried M. Roomans,1983 **A Simple Correction Procedure for Quantitative Electron Probe Microanalysis** Kurt F. J. Heinrich,1972 Micron ,1975 The international journal of electron microscopy electron probe micro analysis associated techniques **Optique des rayons X et microanalyse** Raymond Castaing,P. Deschamps,J. Philibert,1966 **Archiwum hutnictwa** ,1995 *Scanning Electron Microscopy* ,1984 Vols for 1968 77 include the proceedings of the annual Scanning Electron Microscope Symposium sponsored by the IIT Research Institute and other workshops

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