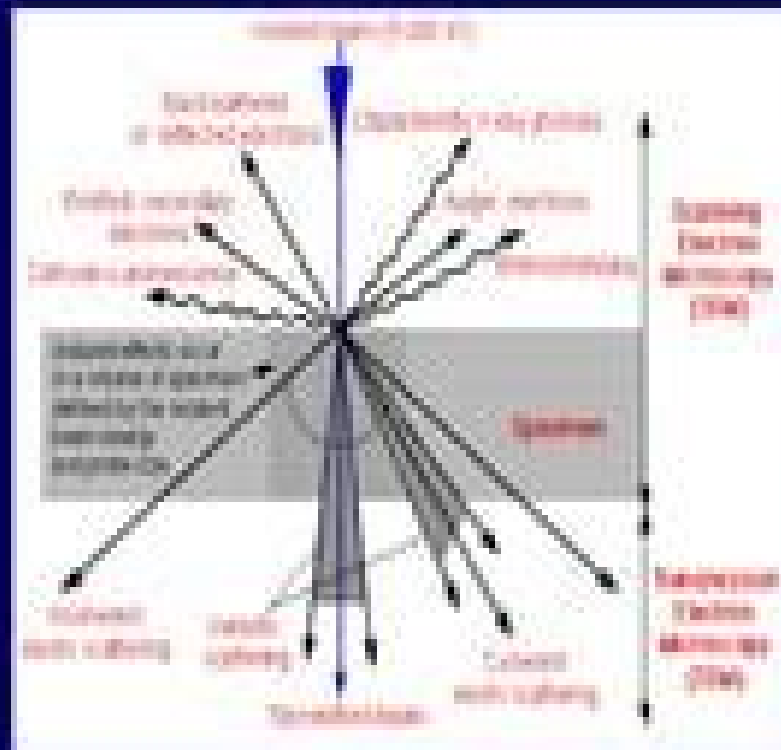


Electron Probe Microanalysis



- Primary ion beam: 5-20 kV electrons
- Detection limit in the region of 100 ppm
- Quantitative
- Lateral resolution of 1 μm
- Cryochamber
- Specimen maintained at 80 K

Quantitative Electron Probe Microanalysis

K.F.J. Heinrich, D. Newbury



Quantitative Electron Probe Microanalysis:

Quantitative Electron Probe Microanalysis Kurt F. J. Heinrich, 1968 *FRAME* Harvey Yakowitz, Robert L. Myklebust, Kurt F. J. Heinrich, 1973 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 Quantitative Electron Microprobe Analysis Roger Theisen, 2013-11-11 A Manual of Quantitative Electron Probe Microanalysis William J. M. Salter, E. R. Denton, 1970 *Quantitative Electron-probe Microanalysis* Victor D. Scott, Glyn Love, 1983 Uncertainty in Quantitative Electron Probe Microanalysis , Quantitative Electron Probe Microanalysis... Charles Alan Friskney, 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 A Manual of Quantitative Electron Probe Microanalysis William John Malcolm Salter, 1970 **Present State of the Classical Theory of Quantitative Electron Probe Microanalysis** Kurt F. J. Heinrich, 1970 Although the foundations for a procedure of data reduction in quantitative electron probe analysis have not been changed for several years there has been progress in the choice of expressions parameters and constants A brief account of recommended expressions and procedures is given Reference is made to the Standard Reference Materials of Au Ag and Au Cu alloys issued for electron probe microanalysis These are especially useful for investigating the application of

correction procedures **Quantitative Electron Probe Microanalysis** Kurt F. J. Heinrich, 1968 *A Rigorous Correction Procedure for Quantitative Electron Probe Microanalysis (COR 2)* Jean Hénoc, Kurt F. J. Heinrich, Robert L. Myklebust, 1973

A Simple Correction Procedure for Quantitative Electron Probe Microanalysis Kurt F. J. Heinrich, 1972 Proceedings :
Quantitative Electron Probe Microanalysis European Workshop on Modern Developments and Applications in Microbeam Analysis, European Microbeam Analysis Society, 1989 *Diagrams and Tables for Quantitative Electron Probe Microanalysis* Toyota Chūō Kenkyūjo, 1970 Quantitative Electron Probe Microanalysis K. F. J. Heinrich, 2018-08-15 Excerpt from Quantitative Electron Probe Microanalysis Proceedings of a Seminar Held at the National Bureau of Standards Gaithersburg Maryland June 12 13 1967 Electron probe microanalysis is extensively used as a research tool in a wide range of scientific disciplines including metallurgy solid state physics mineralogy and biology Scientists in several laboratories at locations distributed over the world are seeking to improve our knowledge of the physical bases and the quantitative aspects of this analytical technique To stimulate this research it is important to establish and maintain free interchange of ideas among the investigators It is equally important to render the results of the research activity accessible to those whose interest in microprobe analysis is more recent or incidental About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books Find more at www.forgottenbooks.com This book is a reproduction of an important historical work Forgotten Books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy In rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition We do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works *Diagrams and Tables for Quantitative Electron Probe Microanalysis-Epma* Toyota Central R & D Laboratories, 1970 Quantitative Electron Probe Microanalysis, 1968 Quantitative Electron Probe Microanalysis. Proceedings of a Seminar, Gaithersburg, Md. 1967 K. F. J. Heinrich, NBS., 1968

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