

Electron Microprobe Proc Of The Symposiu

Committee E-3 Staff

Electron Microprobe Proc Of The Symposiu:

The Electron Microprobe T. D. McKinley, K. F. J. Heinrich, David Beryle Wittry, 1966 **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 Activities of the NBS Spectrochemical Analysis Section Bourdon Francis Scribner, Institute Technical Note .1967-02 for Materials Research (U.S.). Analytical Chemistry Division. Spectrochemical Analysis Section, 1966 Activities in optical spectrometry included development of programs for calculations on a time sharing computer measurement of arc temperatures applications of the laser probe and the plasma jet and studies on atomic absorption spectrometry In x ray spectroscopy there were some modifications of equipment improvements in computation methods and several applications Improvements and additions were made to the electron probe analyzer along with studies on measurement techniques including nondispersive analysis and computation procedures The spark source mass spectrometer was also modified and a new analog computer has been built and tested for reduction of photographic plate data applications of this instrument to analyses of pure materials are described Enrichment methods are being studied for the analysis of pure materials by emission spectroscopy particularly with an electro deposition technique Homogeneity studies and analyses were performed in the development of standard reference materials Author Electron Beam Microanalysis, Determination of Nonmetallic Compounds in Steel Committee E-3 Staff, 1966 *Applications of Modern Metallographic Techniques* American Society for Metals, 1970 NBS Special Publication ,1968 Analytical Mass Spectrometry Section: Instrumentation and Procedures for Isotopic Analysis William R. Shields, 1966 Nuclear Science Abstracts, 1976-06 Advances in **Geophysics**, 1973-10-19 Advances in Geophysics Characterization of Ceramics Larry L. Hench, Robert William Gould, 1971 Electrochemical Analysis United States. National Bureau of Standards, 1966 The Electron Microprobe: Proceedings of the Symposium Sponsored by the Electrothermics and Metallurgy Division ..., Washington, October, 1964

Electrochemical Society, Metallography Abrams H., 1986 Metallography - A Practical Tool for Correlating the Geological Survey Professional Paper ,1968 Structure and Properties of Materials, *Vth International Congress on* X-Ray Optics and Microanalysis / V. Internationaler Kongreß für Röntgenoptik und Mikroanalyse / Ve Congrès International sur l'Optique des Rayons X et la Microanalyse Gottfried Möllenstedt, K.H. Gaukler, 2013-06-29 The Fifth International Congress on X Ray Optics and Microanalysis was organized by the Institute of Applied Physics at T bingen University in Western Germany from September 9th through 14th 1968 Since 1956 when the First Conference was arranged in Cambridge England by one of the pioneers in this field V E CossLETT the experts in the fields of X Ray Optics and Microanalysis have met every third year to exchange their scientific experiences Later meetings were held at Uppsala Sweden in 1959 at Stanford California in 1962 and at Orsay Francein 1965 The participants in the 1968 Conference came from the following countries Germany 140 France 60 Great Britain 55 USA 20 Netherlands 16 Switzerland 12 Austria 9 Sweden 7 Belgium 6 Japan 5 Italy 4 two each from Israel Yugoslavia Canada Norway Hungary and one each from Argentine Poland South Africa As at the latest congress in Paris the following central topics were treated General problems of X ray optics physical bases of electron beam microanalysis quantitative problems of X ray microanalysis instrumentation microdiffraction applications to metal lurgy mineralogy and biology An exhibition showing some of the most modern instruments formed an important part of the conference The Springer Verlag Heidelberg deserves thanks for the careful and speedy work they have performed in printing these conference proceedings We are further indebted to all contributors of this volume for their kind cooperation T bingen August 1969 G M LLENSTEDT and K H List of Conference Proceedings in Science and Technology, 1948-1969 Kokuritsu Kokkai Toshokan (Japan),1972

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