

SPECTROCHEMICAL ANALYSIS BY X-RAY FLUORESCENCE

Rudolf O. Muller



Springer

Spectrochemical Analysis By X Ray Fluorescence

**Kouichi Tsuji, Jasna Injuk, René Van
Grieken**



Spectrochemical Analysis By X Ray Fluorescence:

Spectrochemical Analysis by X-Ray Fluorescence Rudolf Muller, 2012-12-06 In recent years the x ray fluorescence technique has become increasingly important in modern analysis and production control it can be classified as a spectroscopical method for the determination of the elemental composition Many articles treat this method however there exists no modern textbook suitable for the beginner as well as the practician and theoretician In this monograph the author intends to fill this need to present the principles of x ray fluorescence analysis and to develop a theoretical understanding of the technique Both principles and theory will be treated extensively for they are the basis for successful practical application of the method X ray fluorescence on the other hand is often carried out exclusively because of its practical usefulness For this reason theoretical investigations are used exclusively as a basis for practical work and the multitude of applications which constitute the value of the x ray fluorescence method will be explained on the basis of simple theory The idea to write this monograph originated and developed when efforts to train coworkers required a more complete treatise I would like to thank the elBA Aktiengesellschaft in Basel where this work originated for generous support and permission to publish the book The head of the Physics Department Dr E Ganz and my colleagues have contributed to this book by providing a stimulating working atmosphere I am grateful to my associates in particular Messrs E Eng S Gasser and H R

Spectrochemical Analysis by X-ray Fluorescence Rudolf O. Müller, Klaus Keil, 1972 *X-ray Spectrochemical Analysis* L. S. Birks, 1969 Simplified fundamentals principles of x ray generation diffraction and absorption Excitation for x ray analysis Dispersion spectrometer geometry and crystal properties Detectors and circuits Energy dispersion Analysis precision and accuracy Mathematical methods for quantitative analysis Applications and specimen preparation Electron probe microanalysis

Spectrochemical Analysis United States. National Bureau of Standards. Spectrochemical Analysis Section, 1965

Spectrochemical analysis by X-ray fluorescence, by Rudolf Olimpio Muller, *Spectrochemical Analysis* Bourdon Francis Scribner, 1965 A summary is given of the activities of the Spectrochemical Analysis Section for the period from July 1964 through June 1965 Activities in optical spectrometry included studies of excitation by arcs and sparks in controlled atmospheres and by the laser **Spectrochemical analysis** Bourdon F. Scribner, 1965 *Quantitative X-Ray Spectrometry*

Ron Jenkins, 1995-04-26 This work covers important aspects of X ray spectrometry from basic principles to the selection of instrument parameters and sample preparation This edition explicates the use of combined X ray fluorescence and X ray diffraction data and features new applications in environmental studies forensic science archeometry and the analysis of metals *Publications of the National Bureau of Standards 1978 Catalog* United States. National Bureau of Standards, 1979

Catalog of National Bureau of Standards Publications, 1966-1976 United States. National Bureau of Standards. Technical Information and Publications Division, Betty L. Burris, Rebecca J. Morehouse, 1978 *X-Ray Spectroscopy* Shatendra K Sharma, 2012-02-01 The x ray is the only invention that became a regular diagnostic tool in hospitals within a week of its first

observation by Roentgen in 1895 Even today x rays are a great characterization tool at the hands of scientists working in almost every field such as medicine physics material science space science chemistry archeology and metallurgy With vast existing applications of x rays it is even more surprising that every day people are finding new applications of x rays or refining the existing techniques This book consists of selected chapters on the recent applications of x ray spectroscopy that are of great interest to the scientists and engineers working in the fields of material science physics chemistry astrophysics astrochemistry instrumentation and techniques of x ray based characterization The chapters have been grouped into two major sections based upon the techniques and applications The book covers some basic principles of satellite x rays as characterization tools for chemical properties and the physics of detectors and x ray spectrometer The techniques like EDXRF WDXRF EPMA satellites micro beam analysis particle induced XRF and matrix effects are discussed The characterization of thin films and ceramic materials using x rays is also covered

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X-Ray Spectrometry Kouichi Tsuji,Jasna Injuk,René Van Grieken,2005-08-19 X Ray Spectrometry Recent Technological Advances covers the latest developments and areas of research in the methodological and instrumental aspects of x ray spectrometry Includes the most advanced and high tech aspects of the chemical analysis techniques based on x rays Introduces new types of X ray optics and X ray detectors covering history principles characteristics and future trends Written by internationally recognized scientists all of whom are eminent specialists in each of the sub fields Sections include X Ray Sources X Ray Optics X Ray Detectors Special Configurations New Computerization Methods New Applications This valuable book will assist all analytical chemists and other users of x ray spectrometry to fully exploit the capabilities of this set of powerful analytical tools and to further expand applications in such fields as material and environmental sciences medicine toxicology forensics archaeometry and many others

X-Ray Spectroscopy in Environmental Sciences Vlado Valkovic,2024-12-06 Applications of X ray spectroscopy to air water and soil pollution studies are covered in detail in this essential publication Air pollution can hardly be studied by any other method to such an extent Much of our present knowledge in this field was obtained by laboratories using many of the same methods described in this work A number of examples illustrate the contribution of X ray emission spectroscopy and its capabilities in the area of water pollution Examples of soil pollution studies by the use of biological monitors is also presented A comprehensive reference list with the help of author and subject indices provides direction for further investigation

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