

Handbook of X-Ray Spectrometry

Methods and Techniques

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Marcel Dekker, Inc.

New York • Basel • Hong Kong

Handbook Of X Ray Spectrometry Methods And Techniques

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Handbook Of X Ray Spectrometry Methods And Techniques:

Handbook of X-ray Spectrometry René Grieken, Andrzej Markowicz, 1993 Provides coverage of all aspects of X ray spectrometry including thorough treatments of each X ray emission analysis technique The book brings together in depth discussions of radioisotope X ray analysis synchrotron radiation induced X ray emission total reflection X ray fluorescence analysis and polarized beam X ray fluorescence analysis environmental chemists and biochemists applied physicists biologists geologists metallurgists and upper level undergraduate and graduate students in these disciplines *Handbook of X-Ray Spectrometry* Rene Van Grieken, A. Markowicz, 2001-11-27 Updates fundamentals and applications of all modes of x ray spectrometry including total reflection and polarized beam x ray fluorescence analysis and synchrotron radiation induced x ray emission Promotes the accurate measurement of samples while reducing the scattered background in the x ray spectrum

Handbook of Practical X-Ray Fluorescence Analysis Burkhard Beckhoff, Birgit Kanngießer, Norbert Langhoff, Reiner Wedell, Helmut Wolff, 2007-05-18 X Ray fluorescence analysis is an established technique for non destructive elemental materials analysis This book gives a user oriented practical guidance to the application of this method The book gives a survey of the theoretical fundamentals analytical instrumentation software for data processing various excitation regimes including grating incidents and microfocus measurements quantitative analysis applications in routine and micro analysis mineralogy biology medicine criminal investigations archeology metallurgy abrasion microelectronics environmental air and water analysis This book is the bible of X Ray fluorescence analysis It gives the basic knowledge on this technique information on analytical equipment and guides the reader to the various applications It appeals to researchers analytically active engineers and advanced students Handbook of Raman Spectroscopy Ian R. Lewis, Howell Edwards, 2001-08-08 This work covers principles of Raman theory analysis instrumentation and measurement specifying up to the minute benefits of Raman spectroscopy in a variety of industrial and academic fields and how to cultivate growth in new disciplines It contains case studies that illustrate current techniques in data extraction and analysis as well as over 500 drawings and photographs that clarify and reinforce critical text material The authors discuss Raman spectra of gases Raman spectroscopy applied to crystals applications to gemology in vivo Raman spectroscopy applications in forensic science and collectivity of vibrational modes among many other topics Handbook of Near-Infrared Analysis, Second Edition Donald A. Burns, Emil W. Ciurczak, 2001-06-28 With contributions from over 40 experts in the field this reference presents comprehensive single source coverage of the instrumentation computerization calibration and methods development of NIR spectroscopy It provides novel applications for accurate time and cost effective analyses of pharmaceuticals polymers textiles agricultural products dairy products foods and beverages Emphasizing trends in sample preparation the book covers historical development calibration transfer biomedical applications plastics and counterfeiting on line in line and at line analyses for process control multilinear regression and principal component analysis and more *Quantitative X-Ray Spectrometry,*

Second Edition, 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 and alloys minerals and ore ceramic materials catalysts and trace metals This work is intended for spectroscopists analytical chemists materials scientists experimental physicists mineralogists biologists geologists and graduate level students in these disciplines

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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

Engineered Materials Handbook, Desk Edition ASM International. Handbook Committee, 1995-11-01 A comprehensive reference on the properties selection processing and applications of the most widely used nonmetallic engineering materials Section 1 General Information and Data contains information applicable both to polymers and to ceramics and glasses It includes an illustrated glossary a collection of engineering tables and data and a guide to materials selection Sections 2 through 7 focus on polymeric materials plastics elastomers polymer matrix composites adhesives and sealants with the information largely updated and expanded from the first three volumes of the Engineered Materials Handbook Ceramics and glasses are covered in Sections 8 through 12 also with updated and expanded information Annotation copyright by Book News Inc Portland OR

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