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| Nota di contenuto | X-Ray Fluorescence Spectrometry; CONTENTS; PREFACE TO THE FIRST EDITION; PREFACE TO THE SECOND EDITION; CUMULATIVE LISTING OF VOLUMES IN SERIES; CHAPTER 1 PRODUCTION AND PROPERTIES X-RAYS; 1.1 Introduction; 1.2 Continuous Radiation; 1.3 Characteristic Radiation; 1.4 Absorption of X-Rays; 1.5 Coherent and Incoherent Scattering; 1.6 Interference and Diffraction; Bibliography; CHAPTER 2 INDUSTRIAL APPLICATIONS OF X-RAYS; 2.1 Introduction; 2.2 Diagnostic Uses of X-Rays; 2.3 Tomography; 2.4 Level and Thickness Gauging; 2.5 X-Ray Thickness Gauging; 2.6 Nondestructive Testing 2.7 Security Screening Systems2.8 X-Ray Lithography; 2.9 X-Ray Astronomy; Bibliography; CHAPTER 3 X-RAY DIFFRACTION; 3.1 Use of X-Ray Diffraction to Study the Crystalline State; 3.2 The Powder Method; 3.3 Use of X-Ray Powder Cameras; 3.4 The Powder Diffractometer; 3.5 Qualitative Applications of the X-Ray Powder Method; 3.6 Quantitative Methods in X-Ray Powder Diffraction; 3.7 Other Applications of X-Ray Diffraction; Bibliography; CHAPTER 4 X-RAY SPECTRA; 4.1 Introduction; 4.2 Electron Configuration of the Elements; 4.3 Fluorescent Yield; 4.4 Relationship Between Wavelength |

and Atomic Number

4.5 Normal Transitions (Diagram Lines) 4.6 Satellite Lines; 4.7
Characteristic Line Spectra; 4.8 K Spectra; 4.9 L Spectra; 4.10 M
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Rebirth of X-Ray Fluorescence; 5.4 Evolution of Hardware Control
Methods; 5.5 The Growing Role of X-Ray Fluorescence Analysis in
Industry and Research; 5.6 The Arrival of Energy Dispersive
Spectrometry; 5.7 Evolution of Mathematical Correction Procedures
5.8 X-Ray Analysis in the 1970s 5.9 More Recent Development of X-Ray
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Energy Dispersive Spectrometers; Bibliography; CHAPTER 7
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Concentrations; 7.5 Qualitative Analysis
7.6 Geometric Constraints of Wavelength and Energy Dispersive
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Fluorescence in Industry and Research; 8.2 Scope of the X-Ray
Fluorescence Method; 8.3 The Determination of Low Atomic Number
Elements; 8.4 Total Reflection X-Ray Fluorescence; 8.5 Synchrotron
Source X-Ray Fluorescence-SSXRF; 8.6 Proton Induced X-Ray
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PRESENTATION; 9.1 Form of the Sample for X-Ray Analysis; 9.2 Direct
Analysis of Solid Samples
9.3 Preparation of Powder Samples

Sommario/riassunto

X-ray fluorescence spectroscopy, one of the most powerful and flexible techniques available for the analysis and characterization of materials today, has gone through major changes during the past decade. Fully revised and expanded by 30%, X-Ray Fluorescence Spectrometry, Second Edition incorporates the latest industrial and scientific trends in all areas. It updates all previous material and adds new chapters on such topics as the history of X-ray fluorescence spectroscopy, the design of X-ray spectrometers, state-of-the-art applications, and X-ray spectra. Ron Jenkins draws on his exte

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