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(Kian Harber)

MATERIALS OF MODERN MICRO-ANALYTICAL TECHNIQUES - BASIC PRINCIPLES AND APPLICATIONS (COLLEGES AND UNIVERSITIES TEACHING MATERIALS)

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paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Pages Number: 170 Publisher: Chemical Industry Pub. Date :2011-08-01 version 1 by Li Yan compiled the material of modern micro-analytical techniques - basic principles and application of modern micro-analytical techniques in materials microstructure analysis. analysis of surface morphology. crystal structure analysis. elemental analysis. focusing introduce transmission electron microscopy. scanning electron microscopy. electron diffraction (including EBSD). X-ray diffraction. energy dispersive spectroscopy. spectroscopy. scanning probe microscopy structure principle. the operation of the instrument used. the physical basis of analytical methods. specific test methods. and application examples. Micro-analytical techniques of modern materials - basic principles and applications describes the widespread use of modern analytical instrumentation and experimental methods have been rarely used for analytical instruments and methods only in passing. the book's most instances the micro analysis of reference materials the latest results. End of the book with experimental instructions. and appendices. Micro-analytical techniques of modern materials - basic principles and applications can be used as materials science and engineering undergraduate teaching or teaching reference books are also available for testing in materials research and analysis work of science and technology officers. Contents: Chapter 1 Introduction 1.1 Materials 1.2 Engineering and micro-analytical techniques the development process of micro-analytical techniques of modern micro-analytical instruments 1.3 Introduction 1.3.1 The interaction of electronic and physical micro-analyzer 1.3.2 Exercises Chapter 2 Introduction to electron optics-based 2.1 Electron beam characteristics of 2.2 2.2.1 thermionic emission electron gun-type field emission electron gun electron gun 2.2.2 2.3 2.3.1 Electromagnetic electromagnetic lens lens lens aberrations electromagnetic structure 2.3.2 2.3.3 2.3.4 resolution of the electromagnetic lens electromagnetic lens focal length and depth of field exercises in Chapter 3 Transmission electron microscope TEM 3.1 Classification 3.2 The basic composition of transmission electron...



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