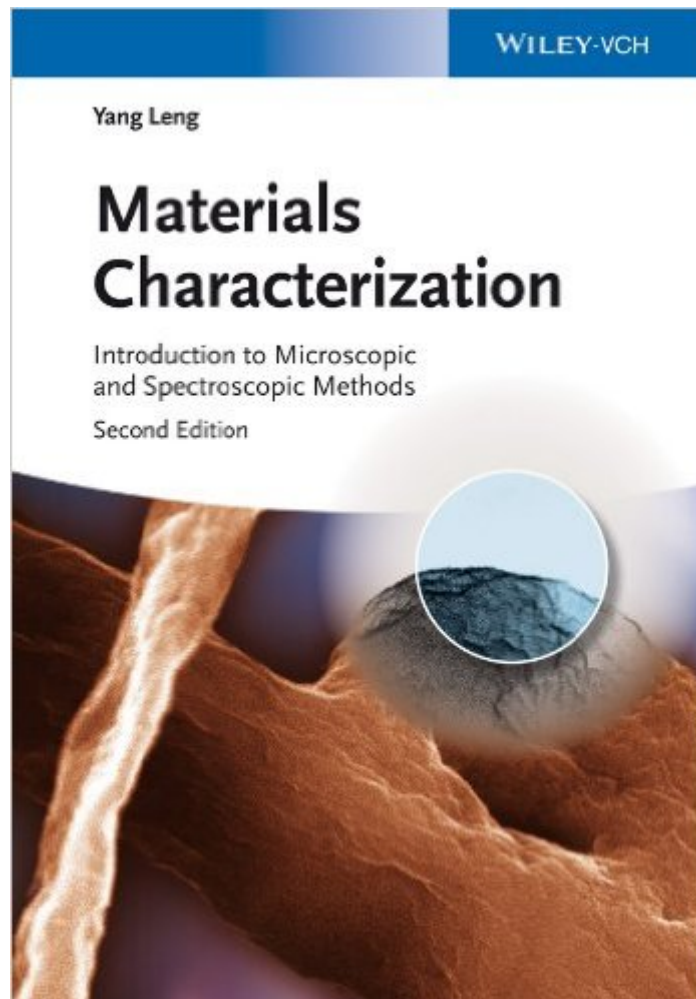


The book was found

# Materials Characterization: Introduction To Microscopic And Spectroscopic Methods



## Synopsis

Now in its second edition, this continues to serve as an ideal textbook for introductory courses on materials characterization, based on the author's experience in teaching advanced undergraduate and postgraduate university students. The new edition retains the successful didactical concept of introductions at the beginning of chapters, exercise questions and an online solution manual. In addition, all the sections have been thoroughly revised, updated and expanded, with two major new topics (electron backscattering diffraction and environmental scanning electron microscopy), as well as fifty additional questions - in total about 20% new content. The first part covers commonly used methods for microstructure analysis, including light microscopy, X-ray diffraction, transmission and scanning electron microscopy, as well as scanning probe microscopy. The second part of the book is concerned with techniques for chemical analysis and introduces X-ray energy dispersive spectroscopy, fluorescence X-ray spectroscopy and such popular surface analysis techniques as photoelectron and secondary ion mass spectroscopy. This section concludes with the two most important vibrational spectroscopies (infra-red and Raman) and the increasingly important thermal analysis. The theoretical concepts are discussed with a minimal involvement of mathematics and physics, and the technical aspects are presented with the actual measurement practice in mind. Making for an easy-to-read text, the book never loses sight of its intended audience.

## Book Information

File Size: 18394 KB

Print Length: 392 pages

Publisher: Wiley-VCH; 2 edition (August 7, 2013)

Publication Date: August 7, 2013

Sold by: Digital Services LLC

Language: English

ASIN: B00EMC8Q2Q

Text-to-Speech: Enabled

X-Ray: Not Enabled

Word Wise: Not Enabled

Lending: Not Enabled

Enhanced Typesetting: Not Enabled

Best Sellers Rank: #927,169 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #105

in Books > Science & Math > Experiments, Instruments & Measurement > Microscopes &

Microscopy #223 in Kindle Store > Kindle eBooks > Engineering & Transportation > Engineering > Materials Science #2335 in Books > Engineering & Transportation > Engineering > Materials & Material Science

## Customer Reviews

It is a good book for beginners but not deep enough for learning techniques or appropriate way of data analysis.

Great book for XRD, Raman, TGA/DSC, SEM, TEM. The only reason I did not give it 5 stars was because I would have liked it if it also included DMA which it does not.

Very good

Good book , its a rental so not much to say about that, fast shipping

[Download to continue reading...](#)

Materials Characterization: Introduction to Microscopic and Spectroscopic Methods Polymer Characterization: Physical Property, Spectroscopic, and Chromatographic Methods (ACS Advances in Chemistry) American Herbal Pharmacopoeia: Botanical Pharmacognosy - Microscopic Characterization of Botanical Medicines Spectroscopic Methods in Organometallic Chemistry Spectroscopic Measurement: An Introduction to the Fundamentals Low-Dimensional and Nanostructured Materials and Devices: Properties, Synthesis, Characterization, Modelling and Applications (NanoScience and Technology) Surface Wave Methods for Near-Surface Site Characterization Ion Spectroscopies for Surface Analysis (Methods of Surface Characterization) Spectroscopic Techniques in Biophysics (Veneto Institute of Sciences, Letters and Arts Series, 4) Fundamentals of Powder Diffraction and Structural Characterization of Materials, Second Edition Materials Characterization Techniques Histopathology of Blistering Diseases: With Clinical, Electron Microscopic, Immunological and Molecular Biological Correlations Textbook and Atlas Veterinary Dermatopathology: A Macroscopic and Microscopic Evaluation of Canine and Feline Skin Disease Permar's Oral Embryology and Microscopic Anatomy: A Textbook for Students in Dental Hygiene Cell Biology of Tooth Enamel Formation: Functional Electron Microscopic Monographs (Monographs in Oral Science, Vol. 14) SAFE MICROSCOPIC TECHNIQUES FOR AMATEURS Slide Mounting High Throughput Screening: Methods and Protocols (Methods in Molecular Biology) (Methods in Molecular Biology, 190) Characterization of Porous Solids and Powders: Surface Area,

Pore Size and Density (Particle Technology Series) Colloidal Carriers for Controlled Drug Delivery and Targeting: Modification, Characterization, and In Vivo Distribution Light Scattering, Size Exclusion Chromatography and Asymmetric Flow Field Flow Fractionation: Powerful Tools for the Characterization of Polymers, Proteins and Nanoparticles

[Dmca](#)