



Scanning Electron Microscopy and X-ray Microanalysis: Third Edition

By Joseph Goldstein, Dale E. Newbury, David C. Joy, Charles E. Lyman, Patrick Echlin, Eric Lifshin, Linda Sawyer, J.R. Michael

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This text provides students as well as practitioners with a comprehensive introduction to the field of scanning electron microscopy (SEM) and X-ray microanalysis. The authors emphasize the practical aspects of the techniques described. Topics discussed include user-controlled functions of scanning electron microscopes and x-ray spectrometers and the use of x-rays for qualitative and quantitative analysis. Separate chapters cover SEM sample preparation methods for hard materials, polymers, and biological specimens. In addition techniques for the elimination of charging in non-conducting specimens are detailed.

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Bibliography

- Sales Rank: #434804 in Books
- Published on: 2003-02
- Original language: English
- Number of items: 1
- Dimensions: 9.90" h x 1.40" w x 7.30" l, 3.55 pounds
- Binding: Hardcover
- 689 pages



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Editorial Review

Review

“There is no other single volume that covers as much theory and practice of SEM or X-ray microanalysis as Scanning Electron Microscopy and X-ray Microanalysis, 3rd Edition does. It is clearly written ... well organized. ... This is a reference text that no SEM or EPMA laboratory should be without.” (Thomas J. Wilson, Scanning, Vol. 27 (4), July/August, 2005)

“As the authors pointed out, the number of equations in the book is kept to a minimum, and important conceptions are also explained in a qualitative manner. A lot of very distinct images and schematic drawings make for a very interesting book and help readers who study scanning electron microscopy and X-ray microanalysis. The principal application and sample preparation given in this book are suitable for undergraduate students and technicians learning SEEM and EDS/WDS analyses. It is an excellent textbook for graduate students, and an outstanding reference for engineers, physical, and biological scientists.” (Microscopy and Microanalysis, Vol. 9 (5), October, 2003)

About the Author

This text is written by a team of authors associated with SEM and X-ray Microanalysis Courses presented as part of the Lehigh University Microscopy Summer School. Several of the authors have participated in this activity for more than 30 years.

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