



# Transmission Electron Microscopy and Diffractometry of Materials

*Brent Fultz, James M. Howe, B. Fultz*

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**Transmission Electron Microscopy and Diffractometry of Materials** Brent Fultz, James M. Howe, B. Fultz

This text covers the concepts of transmission electron microscopy (TEM) and x-ray diffractometry (XRD) that are important for the characterization of materials. It emphasizes themes common to both techniques, such as scattering from atoms and the formation and analysis of diffraction patterns. It also describes unique aspects of each technique, especially imaging and spectroscopy in the TEM. The textbook thoroughly develops both introductory and advanced-level material, using over 400 accompanying illustrations. Problems are provided at the end of each chapter to reinforce key concepts. Simple citations of rules are avoided as much as possible, and both practical and theoretical issues are explained in detail.

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