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Articles included are not only concerned with the characterization techniques of specific materials such as polymers, metals, ceramics and semiconductors but also techniques which can be applied to materials in general.

The techniques described cover bulk methods, and also a number of specific methods to study the topography and composition of surface and near-surface regions. These techniques range from the well-established and traditional to the very latest including: atomic force microscopy; confocal optical microscopy; gamma ray diffractometry; thermal wave imaging; x-ray diffraction and time-resolved techniques.

This unique concise encyclopedia comprises 116 articles by leading experts in the field from around the world to create the ideal guide for materials scientists, chemists and engineers involved with any aspect of materials characterization. With over 540 illustrations, extensive cross-referencing, approximately 900 references, and a detailed index, this concise encyclopedia will be a valuable asset to any materials science collection.

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