



Structure of Materials: An Introduction to Crystallography, Diffraction and Symmetry

Marc De Graef, Michael E. McHenry

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Blending rigorous presentation with ease of reading, this self-contained textbook covers the fundamentals of crystallography, symmetry and diffraction to several classes of materials. The first half of the book is a systematic treatment of the basics of crystallography, discussing bonding, crystal systems, symmetry, point groups and concepts of diffraction. The latter half is more advanced in scope, applying structural determination methods to the study of a broad range of materials, including metallic, ceramic, covalent, amorphous, molecular solids and nanomaterials. Throughout the text, mathematical theory and abstraction is complemented by a highly visual approach, allowing the reader to fully comprehend crystal structure. With over 430 illustrations, 400 homework problems and crystal structure files, this is suitable for advanced undergraduate or graduate courses on crystallography within materials science and engineering. Additional resources for this title including solutions for instructors, data files for crystal structures, and appendices, are available at www.cambridge.org/9780521651516.

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