

Chapter 1 : Marc De Graef: Classes

Historical and biographical sections add colour and interest by giving an insight into those who have contributed significantly to the field. Supplementary online material includes password-protected solutions, over crystal structure data files, and Powerpoints of figures from the book.

Materials and material properties; 2. The periodic table and bonds; 3. What is a crystal structure? Additional crystallographic computations; 8. Symmetry in crystallography; 9. Plane groups and space groups; X-ray diffraction - geometry; X-ray diffraction - intensities; Other diffraction techniques; About crystal structures and diffraction patterns; Non-crystallographic point groups; Periodic and aperiodic tilings; Metallic and covalent structures I; Metallic crystal structures II; Metal structures IV - quasicrystals; Metal structures V - amorphous metals; Ceramic structures I; Ceramic structures II - high temperature superconductors; Ceramic crystal structures III - silicates and aluminates; Molecular solids; Bibliography; Index. Readers of this book will gain a full appreciation of material structure, including metallic, ceramic, amorphous, molecular solids and nanomaterials. In addition, the learning experience of the comprehensive contents and rigorous presentation is not dull. The book includes clear illustrations for more than crystal structures. Together with the writing style of the authors, the overall reading experience is enjoyable.

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Marc De Graef is a professor in the Department of Materials Science and Engineering at the Carnegie Mellon University in Pittsburgh, USA, where he is also co-director of the J. Earle and Mary Roberts Materials Characterization Laboratory.

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