



Foundations of Crystallography with Computer Applications, Second Edition

By Maureen M. Julian

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Taking a straightforward, logical approach that emphasizes symmetry and crystal relationships, **Foundations of Crystallography with Computer Applications, Second Edition** provides a thorough explanation of the topic for students studying the solid state in chemistry, physics, materials science, geological sciences, and engineering. It is also written for scientists who want to teach themselves. Computers are an essential part of crystallography, and computer-based exercises are integrated into this book. The material is presented with the goal of creating an understanding of how atoms are arranged in crystals and how crystal systems are related to each other.

See What's New in the Second Edition:

New appendices contain detailed information about the 32 three-dimensional point groups and the 10 two-dimensional point groups. The book explains the individual entities, such as symmetry operations, and also explains how they fit together in a larger context. Coverage includes lattices, symmetry operations, metric matrices, point groups, space groups, reciprocal lattices, properties of x-rays, and electron density maps, all leading to a formal description of the crystal structures and an interpretation of the published crystallographic data. The author connects general properties such as the piezoelectric effect, compressibility, thermal expansion, and Mosely's relationship in ordering the elements of the periodic table giving students a thorough foundation in the subject.

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