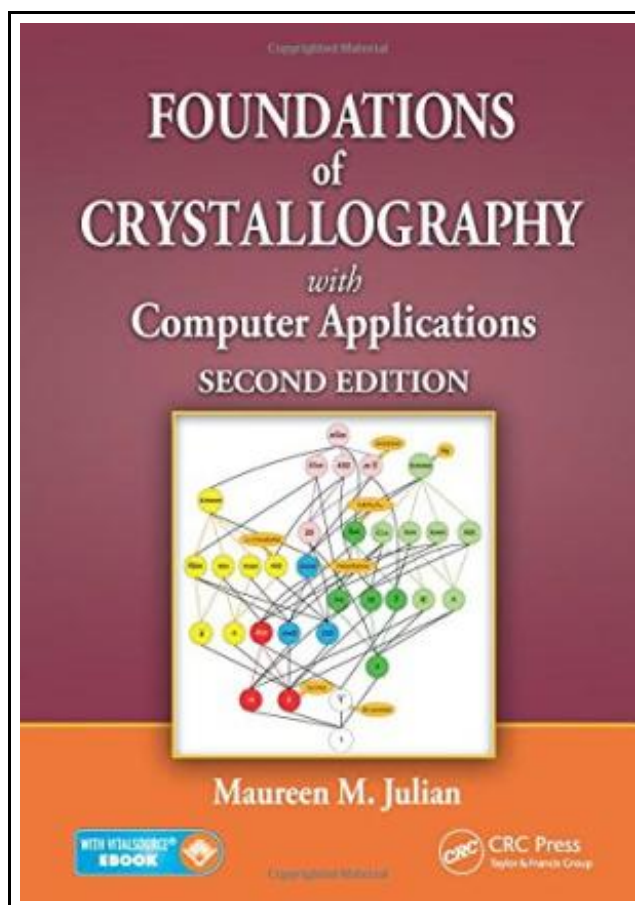


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Taylor Francis Inc, United States, 2014. Mixed media product. Book Condition: New. 2nd Revised edition. 260 x 190 mm. Language: English . Brand New Book. Taking a straightforward, logical approach that emphasizes symmetry and crystal relationships, *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: * Eight new chapters that give detailed crystallographic analyses of one crystal chosen for each crystal system * Numerous molecular examples and suggestions for student projects * Coverage of special topics that naturally arise in the treatment of the crystals * Suggestions for student projects with data that can be found in the free Teaching Subset of the Cambridge Structural Database * Point group and space group diagrams have been color coded using a new scheme devised by the author to emphasize the change of handedness of the symmetry operations * All the Starter Programs have been rewritten and improved, and a new one has been added in Chapter 6 on the graphing of intensity vs. 2θ for powder diffraction data * 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,...



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