



## Crystallography of Modular Materials

By Giovanni Ferraris

OUP Oxford. Paperback. Book Condition: New. Paperback. 416 pages. Dimensions: 9.0in. x 6.1in. x 0.9in. This is the first book to provide a comprehensive treatment of theories and applications in the rapidly expanding field of the crystallography of modular materials. Molecules are the natural modules from which molecular crystalline structures are built. Most inorganic structures, however, are infinite arrays of atoms and some kinds of surrogate modules, e. g. coordination polyhedra, are usually used to describe them. In recent years the attention has been focused on complex modules as the basis for a systematic description of polytypes and homologous polysomatic series (modular structures). This representation is applied to the modelling of unknown structures and understanding nanoscale defects and intergrowths in materials. The OrderDisorder (O. D. ) theory is fundamental to developing a systematic theory of polytypism, dealing with those structures based on both ordered and disordered stacking of one or more layers. Twinning at both unit-cell and micro-scale, together with disorder, causes many problems, demons, for computer-based methods of crystal structure determination. This book develops the theory of twinning with the inclusion of worked examples, converting the demons into useful indicators for unravelling crystal structures. In spite of the increasing use of...



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