
Description: This comprehensively revised - essentially rewritten - new edition of the 1990 edition (described as "extremely useful" by MATHEMATICAL REVIEWS and as "understandable and comprehensive" by Scitech) guides readers through the dense array of mathematical information in the International Tables Volume A. Thus, most scientists seeking to understand a crystal structure publication can do this from this book without necessarily having to consult the International Tables themselves. This remains the only book aimed at non-crystallographers devoted to teaching them about crystallographic space groups.

- Reflecting the bewildering array of recent changes to the International Tables, this new edition brings the standard of science well up-to-date, reorganizes the logical order of chapters, improves diagrams and presents clearer explanations to aid understanding - Clarifies, condenses and simplifies the meaning of the deeply written, complete Tables of Crystallography into manageable chunks - Provides a detailed, multi-factor, interdisciplinary explanation of how to use the International Tables for a number of possible, hitherto unexplored uses - Presents essential knowledge to those needing the necessary but missing pedagogical support and detailed advice - useful for instance in symmetry of domain walls in solids

Contents: Ch-1: Historical Introduction to Space Groups
Ch-2: Symmetry Operations
Ch-3: Crystal systems
Ch-4: Lattices
Ch-5: Crystallographic Point Groups
Ch-6: Space Groups
Ch-7: Some Uses of Space groups
Ch-7: Normalisers
Ch-9: Space Groups and their Subgroups (from new volume A1 of the IT)
Ch-10: Applications (mainly related to phase transitions)
Ch-11 Advanced symmetry groups: frieze rod and layer groups, since these have applications in the newly growing area of the symmetries of surfaces and thin films, and in symmetry of domain walls in crystals. (From new Volume E of IT).

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