

Crystal Structure Analysis for Chemists and Biologists (Methods in Stereochemical Analysis)

By Jenny P. Glusker, Mitchell Lewis, Miriam Rossi

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The fields of structural chemistry and biochemistry have blossomed in the last seventy years since X-ray diffraction was discovered in 1912. Dorothy Hodgkin, who obtained a Nobel Prize in 1965 for her X-ray diffraction work wrote 'a great advantage of X-ray analysis as a method of chemical structure analysis is its power to show some totally unexpected and surprising structure with, at the same time, complete certainty.' The results of all X-ray diffraction studies are used by chemists and buiochemists but these scientists need to be able to appreciate the significance and extent to which these results may be used.

A number of books written for practicing crystallographers cover the theory and applications of X-ray diffraction, but few are of real practical use to non-specialists. In 'Crystal Structure Analysis for Biologists and Chemists', the general principles of crystal structure are presented in a highly readable way. The book of Glusker, who is internationally renowned, provides good coverage of theory, including data and understanding their significance.

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Editorial Review

From the Publisher
This book presents the general principles of crystal structure in a highly readable way. Written for the non-specialist, the information is given in non-technical jargon making this text an excellent tool for those learning crystallography. Provides essential theory, including all equations used by crystallographers, but the emphasis is on interpreting data and understanding it. Takes readers from the physical definition of a crystal, through the X-ray diffraction experiment, to analysis of the results.

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