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The theoretical basis of methods used in refinement of protein crystal structures are then covered in depth along with the crucial task of defining the binding sites of ligands and drug molecules. The complementary roles of other diffraction methods which reveal further detail of great functional importance in a crystal structure are outlined.

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Crystals, x-rays and proteins: comprehensive protein crystallography, by Dennis Sherwood and Jon Cooper E. von Castelmur Department of Biochemistry , The Netherlands Cancer Institute , Plesmanlaan 121, 1066CX Amsterdam , The Netherlands Correspondence a.perrakis@nki.nl

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A complete account of the theory of the diffraction of X-rays by crystals, with particular reference to the processes of determining the structures of protein molecules. This book is aimed primarily at structural biologists and biochemists but will also be valuable to those entering the field with a background in physical sciences or chemistry.

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Crystallography. by D. Sherwood and J. Cooper.. Oxford University Press (2010, 2015) ISBN: 019955904X

## **Errata for Crystals, X-rays and Proteins: Comprehensive**

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Cooper, Jon (Jonathan B.) Sherwood, Dennis. Crystals, X-rays,  
and proteins. Notes Update to: Crystals, X-rays, and proteins /  
Dennis Sherwood. 1976. Includes bibliographical references and  
index. Contents. 1. The crystalline state and its study 2. Vector  
analysis and complex algebra 3. Crystal systematics 4.

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Dennis Sherwood read Natural Sciences as a scholar at Clare  
College, Cambridge, and subsequently won a Mellon Fellowship

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to the Department of Molecular Biophysics and Biochemistry at Yale University (MPhil), and a Calbiochem Scholarship to the University of California at San Diego (PhD).

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He has been working in the protein crystallography field since the mid-1980s when he started a PhD at Birkbeck College London where he later became a post-doctoral fellow and subsequently a lecturer. He is a member of Biological Structures Group of the British Crystallographic Association...

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X-ray crystallography (XRC) is the experimental science determining the atomic and molecular structure of a crystal, in which the crystalline structure causes a beam of incident X-rays to diffract into many specific directions.

## **X-ray crystallography - Wikipedia**

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Protein crystallization is the process of formation of a protein crystal. Protein crystals are useful in the study of protein structures for use in medicine, amongst other applications. In the

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process of protein crystallization, proteins are dissolved in an aqueous environment and sample solution in order to reach the supersaturated state.

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