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Abstract In Chapter 1 you learned how crystals of a protein can be grown and you observed a diffraction pattern. The crystalline form of a protein is required

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The crystals of a pure protein are exposed to X-ray beam and X-ray is diffracted by atoms present in a protein crystal. Depending on the organization of atoms within a crystal and the

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number of electrons in the atoms, an X-ray beam is diffracted into many specific directions.

## **X-Ray Crystallography - an overview | ScienceDirect Topics**

The sample rotates on the goniometer so that a series of 2D diffraction patterns are generated from various sides of the

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## **The Applications & Principles of X-Ray Crystallography**

Suitable both as a text and reference

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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. By measuring the angles and intensities of

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these diffracted beams, a crystallographer can produce a three-dimensional picture of the density of electrons within the ...

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X-ray crystallography is an established method for studying the structure of proteins and other macromolecules. As

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