



## **Structural Biology Using Electrons and X-rays: An Introduction for Biologists**

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## Structural Biology Using Electrons and X-rays: An Introduction for Biologists

*Structural Biology Using Electrons and X-rays* is the perfect book to provide advanced undergraduates or graduate students with an accessible introduction to the two major diffraction-based techniques of structural biology. While concentrating on electron cryo-microscopy with image analysis, it also includes X-ray crystallography in a coherent survey of fundamental principles. Starting with Fourier transforms and progressing through optics and imaging principles, symmetry and three-dimensional reconstruction theory, *Structural Biology Using Electrons and X-rays* ends in an account of the latest methods adapted to crystals, helices, viral heads, and single particles.

- Emphasis on common principles underlying all diffraction-based methods
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