



Foundations of Structural Biology

Leonard J. Banaszak

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Imagine trying to understand an engine without visualizing its moving parts. Biological processes involve far more complex chemical reactions and components than any engine. Furthermore, the parts work together to do many more functions than an engine which sole task is to turn a shaft. Understanding the implications of the three-dimensional coordinates for a molecule with several thousand atoms requires an understanding of, and practice with, 3D imaging. For many biologists, this means acquiring a whole new set of skills.

Foundations of Structural Biology is aimed at helping the reader develop visualization skills for protein or DNA segments, while also describing the fundamental principles underlying the organization and interaction between these complex molecules.

Key Features

- * Explains how to use coordinate databases and atomic coordinates of biological macromolecules
- * Teaches the skills of stereoviewing
- * Contains computer-generated stereographics
- * Describes the principles of symmetry and handedness in proteins and DNA
- * Introduces metal and lipid binding proteins and DNA-protein interactions
- * Explains the principles involved in understanding secondary and quaternary structure
- * Includes coverage of protein-metal, protein-nucleic acid, and protein-lipid interactions

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