



Molecular Biophysics

M Volkenstein

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Molecular Biophysics presents the fundamental principles of biophysics and their application to the study of the physical properties of biological macromolecules. The merger of biology and physics involves the development of sophisticated instrumentation and the molecular approach to the study of life phenomena. This book is composed of nine chapters and begins with an overview of the thermodynamical aspects and chemical foundations of biophysics. These topics are followed by the physical aspects of macromolecules, with a particular emphasis on the biological functions, conformation, and hydrophobic interactions of proteins. The subsequent chapter describes the structural and electro-optical properties of biopolymers based on X-ray, optical, and spectroscopic analysis. The discussion then shifts to enzymes, their chemical kinetics, catalytic potential, and conformational and cooperative properties. The remaining chapters explore the physical aspects of nucleic acids and the biosynthesis of proteins. This book will prove useful to molecular biophysicists, biologists, physicists, and researchers in the fields of life sciences.

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