



Second
Edition

Protein Physics, Second Edition

A Course of Lectures

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PROTEIN PHYSICS

A Course of Lectures

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Fully revised and updated comprehensive reference providing the fundamental physics behind protein structures and functions.

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AUDIENCE: Graduate and advanced undergraduate students and researchers in academia and industry in biophysics, physics, biochemistry, biologists, biotechnology, and chemistry.

Protein Physics, Second Edition: A Course of Lectures covers the most general problems of protein structure, folding and function; describing key experimental facts and introduces concepts and theories. It deals with fibrous, membrane and especially water-soluble globular proteins, in both their native and denatured states. The book summarizes and presents in a systematic form the results of several decades of worldwide fundamental research on protein physics, structure and folding. It describes many physical models to help a reader to make estimates and predictions of physical processes occurring in proteins.

New to this revised edition is the inclusion of novel information on amyloid aggregation, natively disordered proteins, protein folding in vivo, protein motors, misfolding, chameleon proteins, advances in protein engineering & design and advances in modeling of protein folding. Further it provides problems with solutions, many new and updated references and physical and mathematical appendices. Besides, new figures (including stereo drawings, with a special appendix showing how to use them) are added.

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