

Based on the expertise of more than 60 research groups from around the globe, this unique reference integrates theoretical, biophysical, biochemical and medical aspects of protein folding for an in-depth coverage of the entire field.

Part I

- Principles of Protein Stability
- Kinetics of Protein Folding
- Folding of Membrane Proteins
- Structure and Dynamics of Unfolded States
- Folding Intermediates
- Molecular Dynamics Simulations of Protein Folding

Part II

- In vivo Study of Protein Folding
- Cellular Function and Regulation of Chaperones
- Misfolded Proteins and Prions
- Protein Folding Diseases
- Design of Stable Proteins
- Biotechnology of Protein Folding

Throughout the book, theoretical as well as practical aspects are addressed, including detailed protocols for key techniques in protein folding research.

The comprehensiveness and outstanding quality of the carefully selected contributions render this the ultimate resource for every scientist with an interest in protein folding.



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