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Descrizione fisica	1 online resource (156p.) : illustrations
Altri autori (Persone)	KobayashiYukio
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Nota di bibliografia	Includes bibliographical references (p. 135-142) and index.
Nota di contenuto	Generalities: helix-coil transition in polypeptide; some aspects of protein folding. Mechanism of protein folding: island model; a-helical proteins; lysozyme and phospholipase; bovine pancreatic trypsin inhibitor; flavodoxin and thioredoxin; ferredoxin. Folding of a protein of unknown structure: ab initio method of prediction of protein structure; search for the conformation of minimum energy. Topics related to protein structures: phase transition; module; molecular chaperones; membrane proteins; structure prediction based on protein data.
Sommario/riassunto	This work elucidates the mechanism of various processes in protein folding. The main features of protein folding are shown to be described by the island model with long range hydrophobic interaction which is capable of finding the specific residue, and the lampshade criterion for disulfide bonding.