

1. Record Nr.	UNINA9910783719103321
Autore	Huang Kerson <1928-2016.>
Titolo	Lectures on statistical physics and protein folding [[electronic resource] /] / Kerson Huang
Pubbl/distr/stampa	Hackensack, N.J., : World Scientific, c2005
ISBN	1-281-88105-8 9786611881054 981-256-938-3
Descrizione fisica	1 online resource (159 p.)
Disciplina	530.15/95
Soggetti	Statistical physics Protein folding
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Entropy. -- Maxwell-Boltzmann distribution. -- Free energy. -- Chemical potential. -- Phase transitions. -- Kinetics of phase transitions. -- The order parameter. -- Correlation function. -- Stochastic processes. -- Langevin equation. -- The life process. -- Self-assembly. -- Kinetics of protein folding. -- Power laws in protein folding. -- Power laws in protein folding. -- Self-avoiding walk and turbulence. -- Convergent evolution in protein folding. -- Model of energy cascade in a protein molecule.
Sommario/riassunto	This book introduces an approach to protein folding from the point of view of kinetic theory. There is an abundance of data on protein folding, but few proposals are available on the mechanism driving the process. Here, presented for the first time, are suggestions on possible research directions, as developed by the author in collaboration with C C Lin.