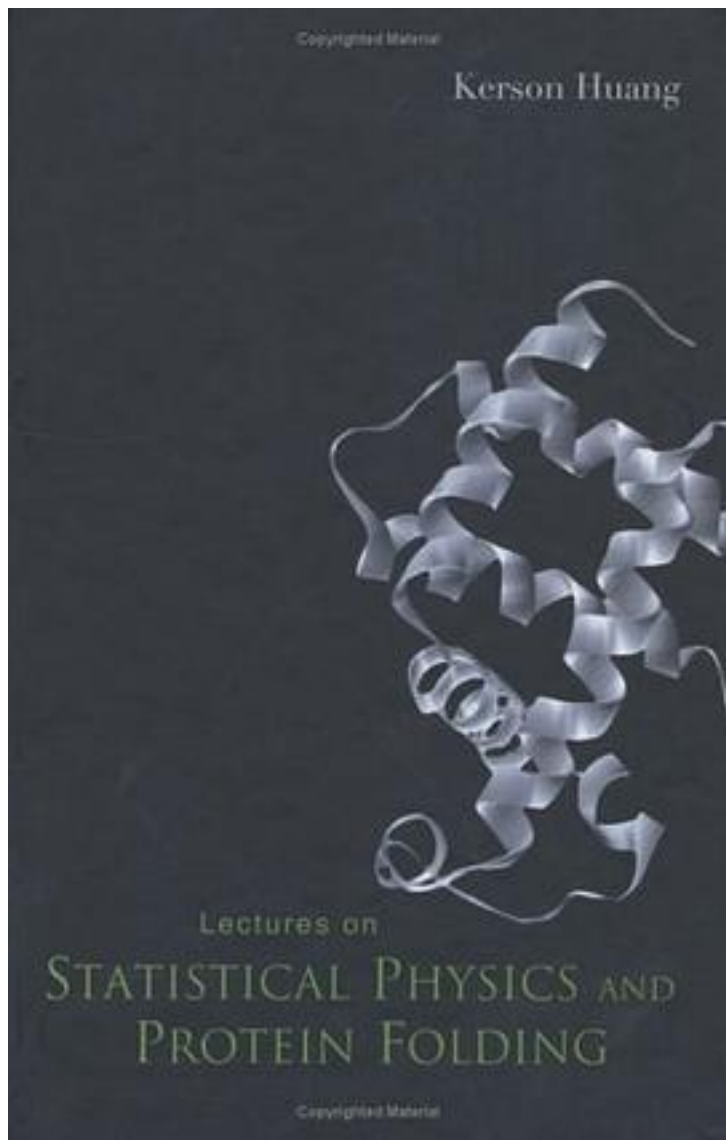


Lectures On Statistical Physics And Protein Folding



[Lectures On Statistical Physics And Protein Folding_ 下载链接1_](#)

著者:Kerson Huang

出版者:World Scientific Publishing Company

出版时间:2005-08-03

装帧:Hardcover

isbn:9789812561435

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 suggestion on possible research directions, as developed by the author in collaboration with C. C. Lin. The first half of this invaluable book contains a concise but relatively complete review of relevant topics in statistical mechanics and kinetic theory. It includes standard topics such as thermodynamics, the Maxwell-Boltzmann distribution, and ensemble theory. Special discussions include the dynamics of phase transitions, and Brownian motion as an illustration of stochastic processes. The second half develops topics in molecular biology and protein structure, with a view to discovering mechanisms underlying protein folding. Attention is focused on the energy flow through the protein in its folded state. A mathematical model, based on the Brownian motion of coupled harmonic oscillators, is worked out in the appendix.

作者介绍:

目录:

[Lectures On Statistical Physics And Protein Folding_ 下载链接1](#)

标签

统计物理

计算

蛋白

英文原版

生物物理

生物力学

物理

评论

黄克孙

斯人已逝——纪念黄克逊教授。您的笔记还在我的书架上。黄教授上课从来不用讲义，统计力学烂熟于胸。

[Lectures On Statistical Physics And Protein Folding_下载链接1](#)

书评

[Lectures On Statistical Physics And Protein Folding_下载链接1](#)