Record Nr.	UNINA9910829881103321
Autore	Brooks Charles L
Titolo	Advances in Chemical Physics [[electronic resource]] : Proteins: A Theoretical Perspective of Dynamics, Structure, and Thermodynamics
Pubbl/distr/stampa	Hoboken, : Wiley, 2009
ISBN	0-470-14120-4
Descrizione fisica	1 online resource (278 p.)
Collana	Advances in chemical physics ; ; v.148
Altri autori (Persone)	KarplusMartin PettittB. Montgomery
Disciplina	541.305 541/.08 547.75
Soggetti	Chemistry, Physical and theoretical Periodicals Chemistry, Physical and theoretical Physics Periodicals Physics Proteins
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di contenuto	PROTEINS: A THEORETICAL PERSPECTIVE OF DYNAMICS, STRUCTURE, AND THERMODYNAMICS; CONTENTS; I. INTRODUCTION; II. PROTEIN STRUCTURE AND DYNAMICS-AN OVERVIEW; III. POTENTIAL FUNCTIONS; IV. DYNAMICAL SIMULATION METHODS; V. THERMODYNAMIC METHODS; VI. ATOM AND SIDECHAIN MOTIONS; VII. RIGID-BODY MOTIONS; VIII. LARGER-SCALE MOTIONS; IX. SOLVENT INFLUENCE ON PROTEIN DYNAMICS; X. THERMODYNAMIC ASPECTS; XI. EXPERIMENTAL COMPARISONS AND ANALYSIS; XII. CONCLUDING DISCUSSION; REFERENCES; INDEX
Sommario/riassunto	Presenting a wide-ranging view of current developments in protein research, the papers in this collection, each written by highly regarded experts in the field, examine various aspects of protein structure, functions, dynamics, and experimentation. Topics include dynamical simulation methods, the biological role of atom fluctuations, protein folding, influences on protein dynamics, and a variety of analytical techniques, such as X-ray diffraction, vibrational spectroscopy,

1.