1. Record Nr. UNINA9910809084003321

Autore	Dewey Thomas Gregory <1952->
Titolo	Fractals in molecular biophysics
Pubbl/distr/stampa	New York ; , : Oxford University Press, , 2023
ISBN	0-19-770404-2 1-280-52698-X 9786610526987 0-19-535918-6 1-4294-0424-8
Edizione	[First edition.]
Descrizione fisica	1 online resource (289 pages)
Collana	Topics in physical chemistry. Oxford scholarship online.
Disciplina	574.8/8/0151474
Soggetti	Molecular biology - Mathematics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Previously issued in print: 1998.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Contents; 1 What Are Fractals?; 2 Fractal Aspects of Protein Structure; 3 Loops, Polymer Statistics, and Helix-Coil Transitions; 4 The Multifractality of Biomacromolecules; 5 Fractal Diffusion and Chemical Kinetics; 6 Are Protein Dynamics Fractal?; 7 Fractons and Vibrational Relaxation in Proteins; 8 Encoded Walks and Correlations in Sequence Data; 9 Percolation; 10 Chaos in Biochemical Systems; Index
Sommario/riassunto	With this volume, T. Gregory Dewey presents a unified treatment of the application of fractals in molecular biophysics. The book brings together diverse applications under a format that moves from structural to dynamic problems.