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| Sommario/riassunto | This comprehensive volume, edited by Xuehai Yan, explores the fundamental principles, structures, and applications of peptide self-assembly. It delves into the molecular basis and synthesis methods of peptides, design rules for peptide materials, and the principles of self-assembly. The book covers advanced topics such as molecular simulations, computational chemistry, and the structural dynamics of peptide gels. It also discusses the design and control of self-sorting patterns, artificial viral capsids, and the role of water in peptide self-assembly. Intended for researchers and professionals in biochemistry, materials science, and molecular biology, this work aims to provide in-depth knowledge and innovative approaches to peptide engineering. |