

Divided into five major parts, the two volumes of this ready reference cover the tailoring of theoretical methods for biochemical computations, as well as the many kinds of biomolecules, reaction and transition state elucidation, conformational flexibility determination, and drug design. Throughout, the chapters gradually build up from recent advances in theory and practical tutorials to comprehensive reviews of the latest research, and include all important compound classes, such as DNA, RNA, the ribosome, ATP, amino acids, proteins, enzymes, and vitamins. This broad but in-depth exposition of core knowledge meshed with topical research should be equally valuable for both the expert as well as those entering the field of quantum biochemistry.

With contributions by 82 exceptional scientists including Nobel Laureates Professor Jerome Karle (Nobel Prize in Chemistry 1985) and Professor Ada Yonath (Nobel Prize in Chemistry 2009).



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