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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 introductory level to comprehensive reviews of the latest research, and include all important compound classes, such as DNA, RNA, enzymes, vitamins, and heterocyclic compounds.
The result is in-depth and vital knowledge for both readers already working in the field as well as those entering it. Includes contributions by Prof. Ada Yonath (Nobel Prize in Chemistry 2009) and Prof. Jerome Karle (Nobel Prize in Chemistry 1985).

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Editorial Review

From the Back Cover
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 edlucidation, 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).

About the Author
Ch?rif F. Matta is Associate Professor at the Department of Chemistry and Physics, Mount Saint Vincent University and an Honorary Adjunct Professor at the Department of Chemistry, Dalhousie University, both in Halifax, Canada. He obtained his BSc from Alexandria University, Egypt, in 1987 and gained his PhD in theoretical chemistry from McMaster University, Canada, in 2002. He was then a postdoctoral fellow at the University of Toronto, Canada, before being awarded an I. W. Killam Fellowship at Dalhousie University. In addition to his current academic appointments, which started in 2006, he has held adjunct/visiting Professorships at McMaster University and at the Universit? Henri Poincar? (UHP), Nancy Universit? - 1. In 2009, he received the HDR (Habilitation) degree from the UHP.
Professor Matta has published more than 50 research papers and book chapters, and edited the Quantum Theory of Atoms in Molecules: From Solid State to DNA and Drug Design (Wiley-VCH, 2007) with Russell J. Boyd. He is the recipient of the Molecular Graphics and Molecular Simulation Society Silver Jubilee Prize for 2009 and won the John C. Polanyi Prize in Chemistry in 2004. His research is in theoretical and computational chemistry with a focus on the analysis of molecular electron densities and its applications.

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