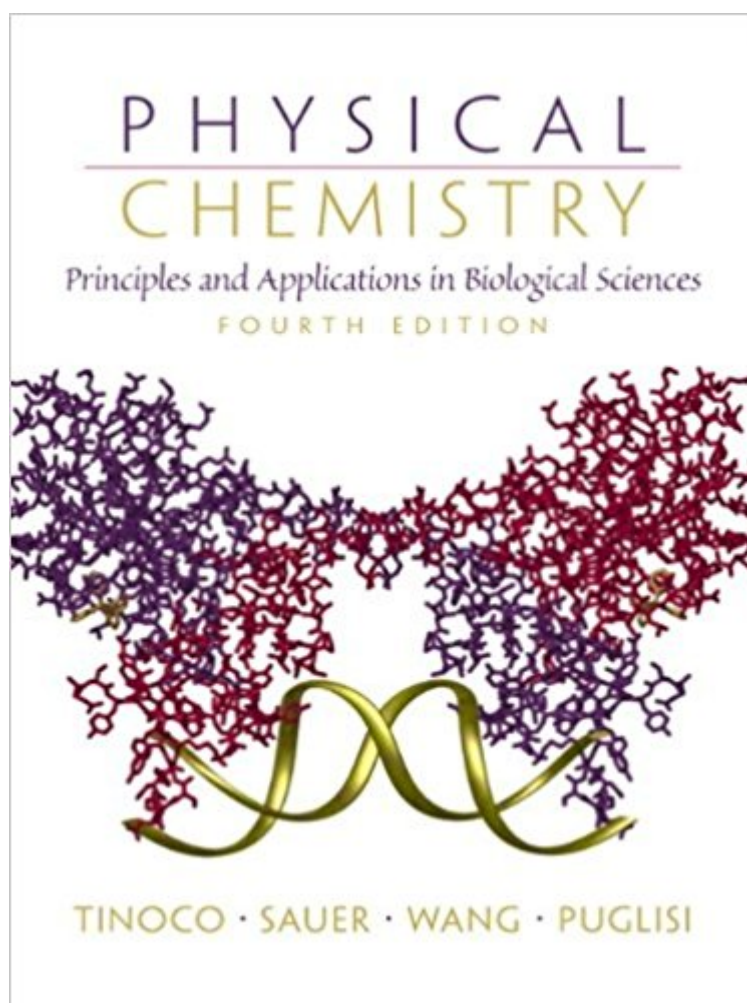


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Physical Chemistry: Principles And Applications In Biological Sciences (4th Edition)



Synopsis

This best-selling volume presents the principles and applications of physical chemistry as they are used to solve problems in biology and medicine. The First Law; the Second Law; free energy and chemical equilibria; free energy and physical Equilibria; molecular motion and transport properties; kinetics: rates of chemical reactions; enzyme kinetics; the theory and spectroscopy of molecular structures and interactions: molecular distributions and statistical thermodynamics; and macromolecular structure and X-ray diffraction. For anyone interested in physical chemistry as it relates to problems in biology and medicine.

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This best-selling volume presents the principles and applications of physical chemistry as they are used to solve problems in biology and medicine. The First Law; the Second Law; free energy and chemical equilibria; free energy and physical Equilibria; molecular motion and transport properties; kinetics: rates of chemical reactions; enzyme kinetics; the theory and spectroscopy of molecular structures and interactions: molecular distributions and statistical thermodynamics; and macromolecular structure and X-ray diffraction. For anyone interested in physical chemistry as it relates to problems in biology and medicine.

Ignacio Tinoco was an undergraduate at the University of New Mexico, a graduate student at the University of Wisconsin, and a postdoctoral fellow at Yale. He then went to the University of

California, Berkeley, where he has remained. His research interest has been on the structures of nucleic acids, particularly RNA. He was chairman of the Department of Energy committee that recommended in 1987 a major initiative to sequence the human genome. His present research is on unfolding single RNA molecules by force. Kenneth Sauer grew up in Cleveland, Ohio, and received his A.B. in chemistry from Oberlin College. Following his Ph.D. studies in gas-phase physical chemistry at Harvard, he spent three years teaching at the American University of Beirut, Lebanon. A postdoctoral opportunity to learn from Melvin Calvin about photosynthesis in plants led him to the University of California, Berkeley, where he has been since 1960. Teaching general chemistry and biophysical chemistry in the Chemistry Department has complemented research in the Physical Biosciences Division of the Lawrence Berkeley National Lab involving spectroscopic studies of photosynthetic light reactions and their role in water oxidation. His other activities include reading, renaissance and baroque choral music, canoeing, and exploring the Sierra Nevada with his family and friends.

This textbook made physical chemistry super easy and helped me to do really well in my course! I would definitely recommend this book to teachers and students for their p-chem courses!!!! It was really helpful!

As a graduate student in biochemistry who has never taken a physical chemistry class, but who has a good background in physics and calculus, I really like this book as a reference. Standard physical chemistry textbooks I looked at, such as Atkins, did not cover the biologically relevant topics I was interested in. This book contains just the right depth for a reference in biophysical chemistry. The concepts are always presented with biological applications in mind. The topics covered are exactly what I was looking for, including thermodynamics, kinetics, quantum chemistry and the theory behind the main biophysical techniques. I was originally intending to buy the 3 volume Cantor and Schimmel series, but I have found that this book gives me everything I need for a much lower price.

The layout of some of the beginning principles are a bit unorganized or just thrown in here and there but all around it's a good book for physical chemistry.

ok

Does not explain concepts very well.

Get it if required for class...but don't expect much out of it. Poor in chapter explanations and even poorer choice of questions.

Gives "detailed" information on most of the concepts.

The textbook is okay. The book features a lot of connections to biochemistry, which is where the world is going so that's good. The formulae are listed at the end of the book, but their implementation isn't always clear from reading the book. The book also makes you look up a lot of values on tables for the equations It's a bit of a pain. The Solutions manual, however, was conceived in the eye of the PChem Devil. The manual features wanton plug and chug of equations, without showing which equations to use. Its methodology for some questions is confusing and, worse still, some of the answers are wrong. Whoever wrote this exam must have a brain tumor that's corrupting their knowledge of Pchem, because I've never seen a worse answer guide.

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