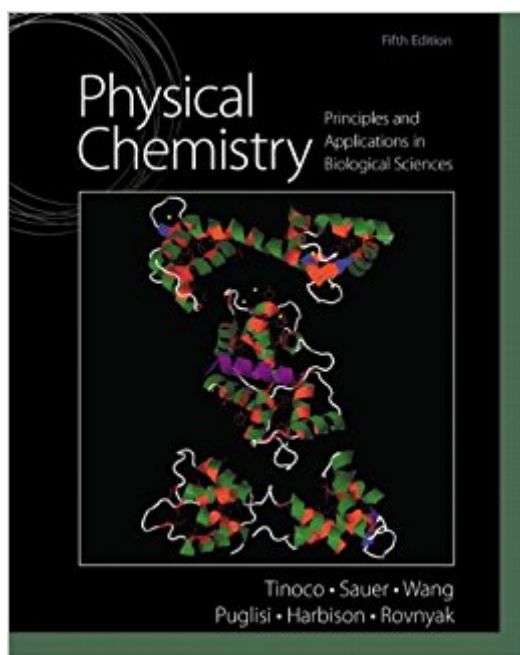


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Physical Chemistry: Principles And Applications In Biological Sciences (5th Edition)



Synopsis

Introducing readers to the latest research applications, the new Fifth Edition of the bestselling *Physical Chemistry: Principles and Applications in Biological Sciences* puts the study of physical chemistry in context. Clear writing and the ideal level of mathematics combine for an engaging overview of the principles and applications of contemporary physical chemistry as used to solve problems in biology, biochemistry, and medicine.

Book Information

Hardcover: 696 pages

Publisher: Pearson; 5 edition (January 13, 2013)

Language: English

ISBN-10: 0136056067

ISBN-13: 978-0136056065

Product Dimensions: 8.1 x 1.3 x 10.1 inches

Shipping Weight: 3 pounds (View shipping rates and policies)

Average Customer Review: 2.6 out of 5 stars 12 customer reviews

Best Sellers Rank: #40,270 in Books (See Top 100 in Books) #16 in Books > Science & Math > Chemistry > Physical & Theoretical > Physical Chemistry #71 in Books > Engineering & Transportation > Engineering > Bioengineering > Biochemistry #286 in Books > Textbooks > Science & Mathematics > Chemistry

Customer Reviews

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. Å Å James C. Wang was on the faculty of the University of California, Berkeley, from 1966 to 1977. He then joined the faculty of Harvard University, where he is presently Mallinckrodt Professor of Biochemistry and Molecular Biology. His research focuses on DNA and enzymes that act on DNA, especially a class of enzymes known as DNA topoisomerases. He has taught courses in biophysical chemistry and molecular biology and has published over 200 research articles. He is a member of Academia Sinica, the American Academy of Arts and Sciences, and the U.S. National Academy of Sciences. Å Å Joseph Puglisi was born and raised in New Jersey. He received his B.A. in chemistry from The Johns Hopkins University in 1984 and his Ph.D. from the University of California, Berkeley, in 1989. He has studied and taught in Strasbourg, Boston, and Santa Cruz, and is currently professor of structural biology at Stanford University. His research interests are in the structure and mechanism of the ribosome and the use of NMR spectroscopy to study RNA structure. He has been a Dreyfus Scholar, Sloan Scholar, and Packard Fellow. Å Å Gerard Harbison was born in the United Kingdom and raised there and in Ireland. He received his B.A. in biochemistry from Trinity College, Dublin, and his Ph.D. in biophysics from Harvard University. After a brief postdoctoral sojourn at the Max-Planck Institute for Polymer Research in Mainz, Germany, he joined the faculty of Stony Brook University, and then moved to the University of Nebraska Lincoln. He is a Dreyfus Scholar, Lilly Foundation Teacher-Scholar and Presidential Young Investigator. His research interests are in nuclear magnetic resonance and electronic structure theory. Å Å David Rovnyak, a native of Charlottesville, Virginia, earned his B.S. in Chemistry at the University of Richmond and Ph.D. in physical chemistry from the Massachusetts Institute of Technology. Å Å After performing post-doctoral study at the Harvard Medical School under an NIH-NRSA fellowship, he joined Bucknell University where he has been recognized with the Bucknell Presidential Teaching Award for Excellence. Å Å His research focuses on new methods for NMR spectroscopy and physico-chemical behavior of bile acids.

I know calculus because I have taken quite a bit but this book just sucks at explaining. I have found a few errors in the example problems and have spent more time searching how they got an answer than I should of. It is written in a very boring fashion and non-eye pleasing way; so if you feel you are a boring teacher please don't pick this book. The only color in the text is green, neither good or bad.

One of the better Pchem books I've run into. Their detail is great for when you are struggling to remember something, and the problems are wonderful to go over before tests.

Interesting.

Good book

Great conditions

Honestly, could have been written much better. Only had the (fortunate) requirement of reading through chapters 11-15 for my survey class at UC Berkeley (Chem 130B); chapters 11-15 are the book's treatment of quantum/spectroscopy. Honestly, it seems like the authors are trying to maximize "watering down" material (because students who use are probably in the equivalent of a very "un-rigorous" survey course like the one I took), and this doesn't help explanations in the book at all (which are already not very well-written to begin with). Because the book isn't built from the ground-up (i.e. derivation-based), chapters 11-15 just become a mesh of equations that are being thrown at you one after another, with not much text in-between to explain really what is going on physically. It's hard to blame the authors because I'm guessing the assumed audience is one with not a strong mathematical background or something. But this in turn leads to confusing text and overall not a thorough understanding of the topic

It's a decent book. It's not an easy read but I guess it really isn't supposed to be. My biggest problem is that there are a number of errors in the supplementary equations and problems at the end of each chapter. However, if you have access to the solutions manual they usually correct and account for these errors. Moreover, from what I have seen, the chapter bodies are generally error free. I would speculate that the supplementary problems/equations were not edited or proofread as rigorously as the chapter content. Disclaimer: I have only studied chapters 2,3,4 and 6 thus far.

Many typos and multiple questions with incorrect answers made this textbook confusing and frustrating (as if p-chem isn't fun enough already). I can not recommend this textbook.

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