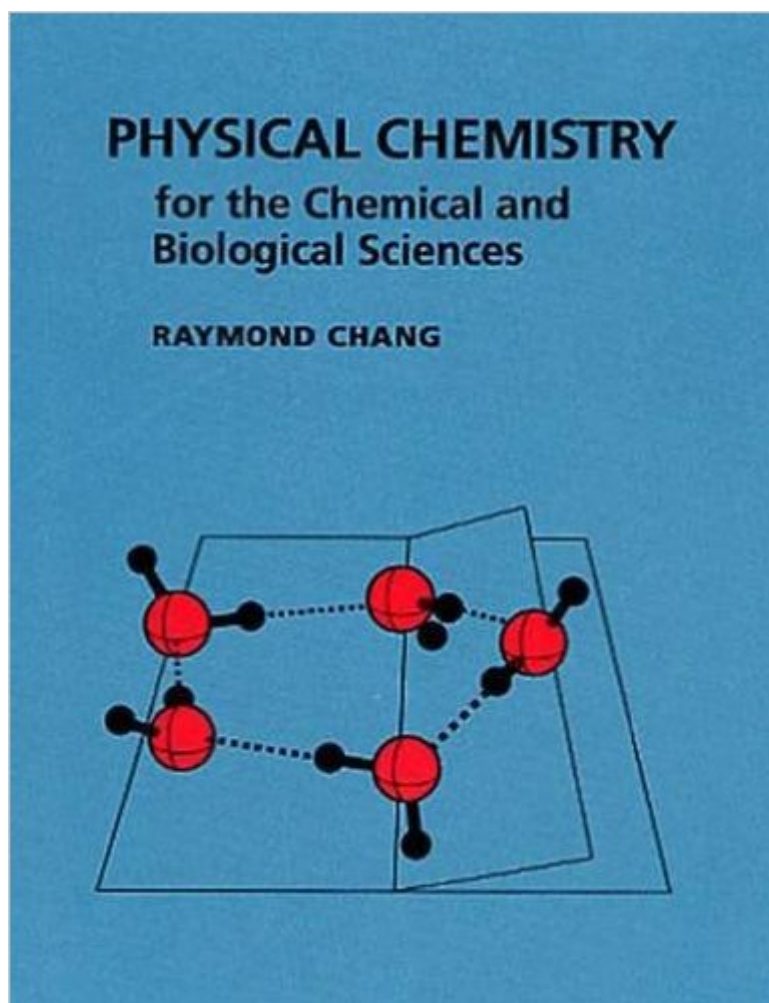


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Physical Chemistry For The Chemical And Biological Sciences



Synopsis

Hailed by advance reviewers as a kinder, gentler P. Chem. text, this book meets the needs of a one-semester course or a full-year course in physical chemistry. It is an ideal choice for classes geared toward pre-medical and life sciences students. Or, as stated in a May 2001 review in Journal of Chemical Education, this text meets these students where they are and opens the door to physical chemistry from a perspective they can appreciate. Physical Chemistry for the Chemical and Biological Sciences offers a wealth of applications to chemical and biological problems, numerous chapter-ending exercises, and an accompanying solutions manual. Well known for his clear writing and careful pedagogical approach, Raymond Chang has developed yet another masterpiece in chemical education.

Book Information

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Customer Reviews

I took a p-chem course many years ago, where the professor was using his handwritten notes from a book that was out of print. I learned almost nothing from that course because his handwriting was horrible and there was no uniform system of organizing his thoughts. I took another p-chem course more recently that used this book. This book is much better than no book. Chang does a really good job of organizing info by topic and presenting things in a sort of stepwise order that students can follow to get from one concept to the next. I have seen some better p-chem books on the market that are easier to read though. You will need to have a basic understanding of general chemistry principles, math (geometry, trigonometry, calculus 1 & 2, differential equations) and basic physics

(Newtonian and electronics/magnetism at least so you know the difference between electricity and electromagnetism); and a good ability to mentally convert a paper image into 3 dimensions for some of the more advanced stuff. This book will teach you thermodynamics from a chemistry perspective, so if you are an engineer or physicist and have already learned your thermodynamics you will be required to look at the same topics from a different frame of reference, defining "system" and "surroundings" a bit differently so in some cases the flow of energy will be depicted BACKWARDS compared to what you're used to. If you are a chemist, this is not a problem because for the rest of your career you will probably see energy flows depicted the same way they are in this book. If your school offers a p-chem lab course, I highly recommend that in addition to reading this book.

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