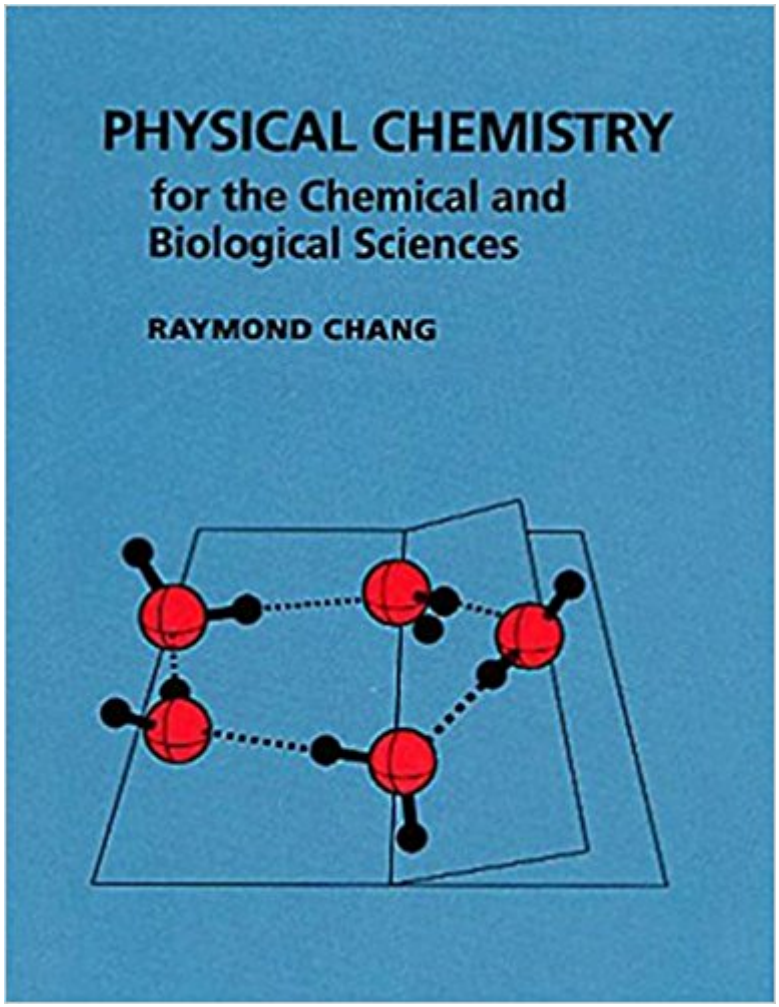
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Physical Chemistry For The Chemical And Biological Sciences



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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

A distinct and excellent publication worth recommending to biological chemists. --The Times Higher...particularly well suited for those who want to pursue a course of study more focused on the biological sciences. --Journal of Chemical EducationAn excellent text. --Christopher J. Barrett, McGill University

Raymond Chang was born in Hong Kong and grew up in Shanghai and Hong Kong, China. He received his B.Sc. degree in chemistry from London University, England and his Ph.D. in physical chemistry from Yale University. After doing postdoctoral research at Washington University and

teaching for a year at Hunter College of the City University of New York, he joined the chemistry department at Williams College. Chang has served on the American Chemical Society Examination Committee and the Graduate Record Examination (GRE) Committee. He is an editor of The Chemical Educator and has authored books on general chemistry and spectroscopy.

easy to read and understand. one of the best science books I own.

good examples, relatively easy to understand, it’s a very good entrance book to physical chemistry. I didn’t read the contents regarding biological science, but should be interesting also.

Great quality.

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. Among all the chemistry branches, physical chemistry really is the one that is hardest to comprehend on paper unless your mind is really good at math and mental 3D modeling. Running through some of the experimental work from a companion lab manual will probably help because you’ll be able to see from direct measurements how different things affect energy transfer and molecular structure.

This is a great text book, but the text created by the author is too long for use in my Thermodynamics class.

Great condition. Only problem is that the spine of the book is kind of detached from the actual text.

All the other students in my class bought used books for the same price I paid for a brand new. Fast shipping as well.

I am field-testing this text for a two-semester Physical Chemistry sequence. Initial impressions of the book are very favorable. In particular, I like Prof. Chang's use of several "real world" examples to illustrate important principles. My students find the math substantial but not very intimidating.Some colleagues of mine miss the mathematical rigor found in other Phy Chem texts like McQuarrie and Levine however.On a lighter note, the color scheme used for this text is excellent. It is just right, neither too drab nor too glaring.

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