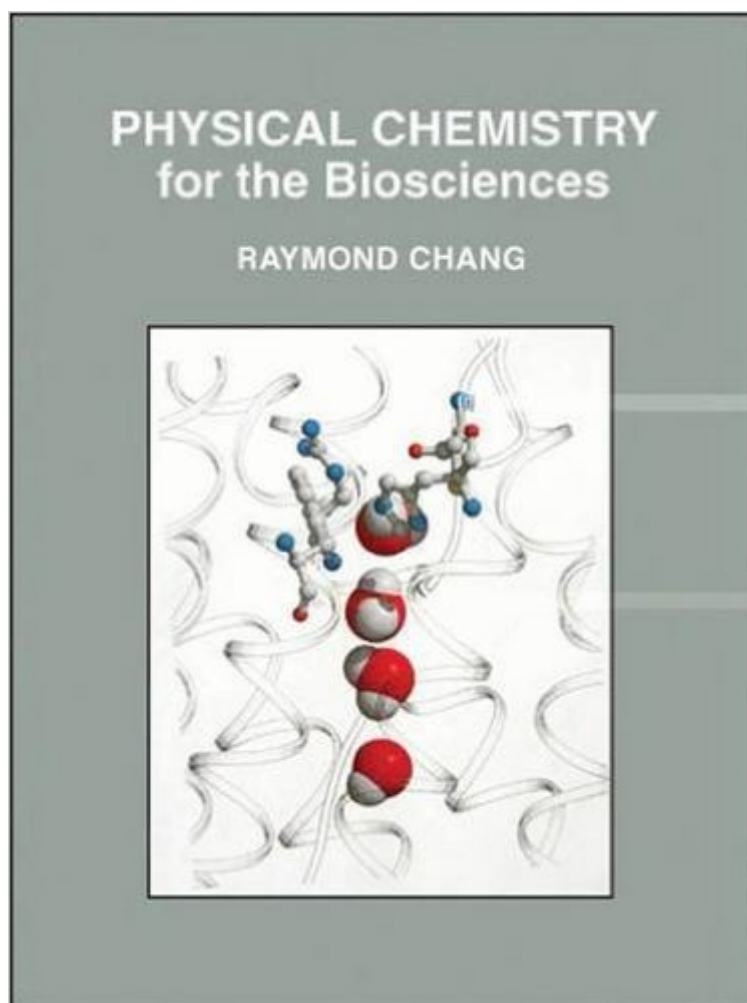


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# Physical Chemistry For The Biosciences



## Synopsis

Chang's newest text has been shortened, streamlined and optimized for a one-semester introductory course in physical chemistry for students of biosciences. Most students enrolled in this course have taken general chemistry, organic chemistry, and a year of physics and calculus. Only basic skills of differential and integral calculus are required for understanding the equations. For premedical students, this text will form the basis for taking courses like physiology in medical school. For those intending to pursue graduate study in biosciences, the material presented here will serve as an introduction to topics in biophysical chemistry courses, where more advanced texts such as those by Gennis, van Holde, and Cantor & Schimmel are used. The author's aim is to emphasize understanding physical concepts rather than focus on precise mathematical development or on actual experimental details. The end-of-chapter problems have both physiochemical and biological applications.

## Book Information

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Average Customer Review: 4.2 out of 5 stars [See all reviews](#) (14 customer reviews)

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## Customer Reviews

Surprisingly good. The biological examples in the textbook have been very useful in post-undergraduate research, both in lab practice and experiment development. Compared to a standard physical chemistry textbook, you are losing a lot of the math and intricate details associated with pchem. However, what you lose in detail, you make up for in biological relevance. An example being a study of the governing rate law in PCR. Another great example is the role of quantum tunneling in enzyme mechanics. This book will not hand-feed you the concepts. You

will have to incorporate supplemental material. This is common for upper-division, specialized, or graduate level courses. The textbook will provide you with the core concepts, but it will be up to you to truly understand the governing maths and applications. Best of luck in pchem! It will all make sense about 6 months after the class ends.

This book skims over concepts and instead focuses on equations. Equations are great and all but more conceptual knowledge of the subject would definitely help you understand the equations and make it easier to memorize. Instead, it is a very barebones textbook. Covers the topics you need to know, and writes just enough of the topics so you can understand what concept they're positing an equation for.

Quite possibly one of the best textbooks I have ever used. Each chapter is short and concise and effectively communicates large quantities of information in only a few short pages. I can learn more by spending 2 hours with this textbook than I can from an entire week of attending lecture. Buy this book.

We used this textbook in a two-term physical chemistry for biochemists course when I was an undergrad. It still requires calculus and full derivation in order to successfully understand the concepts, and I would say it does NOT dilute the key concepts of physical chemistry. Rather, it distills them into a more digestible form that is more relevant to a biological chemist. I absolutely love the clear and concise way this book is written, and the accompanying solutions manual was pretty useful, too. I use this book to this day to brush up on concepts as well as for helping my more advanced college freshmen understand more about general chemistry (even though I have a McQuarrie and Simon P-Chem book sitting on my shelf!).

One of the best books I came across at the library when studying biophysical chem. I have a very a biological background, so I have little experience with the different methods and basic physical concept - and found this book to be extremely clear! This might not be the best book for someone who is very familiar with the topic, but I will definitely advise students who are "scared" or have a weak background in this field to get this book for their course (!!).

all the concepts in the book were explained clearly and had several interesting practice problems at the end of each chapter

This textbook is incredible. Very concise and straight to the point. Great textbook! Highly recommend it, if it's required for your class.

This book is not very exciting at all. It's just text and problems, over and over again. I only used it to work on assigned problems, and would have preferred another book.

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