



Physical Chemistry for the Biosciences

By Raymond Chang

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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.

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Editorial Review

Review

Raymond Chang has flawlessly condensed the fundamental concepts of Physical Chemistry. --Raymond Esquerra, San Francisco State University

Clearly explains the fundamental principles of physical chemistry with an emphasis on biological systems. --Gary A. Lorigan, Miami

A very user-friendly text. --Keith Orrell, University of Exeter

From the Publisher

The end-of-chapter problems have both physiochemical and biological applications.

About the Author

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.

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