



Biophysical Chemistry

James P. Allen

E-Book	ISBN: 978-1-444-30073-4	January 2009	£65.99
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DESCRIPTION

" *Biophysical Chemistry* is an outstanding book that delivers both fundamental and complex biophysical principles, along with an excellent overview of the current biophysical research areas, in a manner that makes it accessible for mathematically and non-mathematically inclined readers." (*Journal of Chemical Biology*, February 2009)

This text presents physical chemistry through the use of biological and biochemical topics, examples and applications to biochemistry. It lays out the necessary calculus in a step by step fashion for students who are less mathematically inclined, leading them through fundamental concepts, such as a quantum mechanical description of the hydrogen atom rather than simply stating outcomes. Techniques are presented with an emphasis on learning by analyzing real data.

- Presents physical chemistry through the use of biological and biochemical topics, examples and applications to biochemistry
- Lays out the necessary calculus in a step by step fashion for students who are less mathematically inclined
- Presents techniques with an emphasis on learning by analyzing real data
- Features qualitative and quantitative problems at the end of each chapter
- All art available for download online and on CD-ROM

ABOUT THE AUTHOR

James Allen is a professor at Arizona State University. He has won numerous honors including several study sections with the National Institutes for Health and was selected for Who's Who Among America's Teachers.

FEATURES

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- A rigorous, up-to-date text presenting physical chemistry through the use of biological and biochemical topics, examples, and applications to biochemistry, with cases drawn from timely research areas in biochemistry
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- Emphasizes important advances in biochemistry
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- Concepts are crystallized by an integrative examination of current research problems
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- Designed to accommodate students without presuming unrealistic prior knowledge of maths theory, it explains essential calculus models in a step-by-step fashion, and enables teachers to have flexibility in deciding which derivations to use in class
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- Every chapter features important recent advances in biochemistry, an examination of current research problems, maths and derivation boxes to guide students, and examples of both numerical and concept-based problems
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- Students are guided through an in-depth understanding of fundamental concepts and techniques are presented with an emphasis on learning through analysis of real data

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