

Biophysical Chemistry

Biophysical Chemistry explores the concepts of physical chemistry and molecular structure that underlie biochemical processes. Ideally suited for students of life sciences, but equally accessible to students and scientists in related fields, the book concisely describes the fundamental aspects of biophysical chemistry, and puts them into a biochemical context.

The book is organized in four parts, covering thermodynamics, kinetics, molecular structure and stability, and biophysical methods. Cross-references within and between these parts emphasize common themes and highlight recurrent principles. End of chapter problems illustrate the main points explored and their relevance for biochemistry, enabling students to apply their knowledge and to transfer it to laboratory projects.

Features

- Provides a reference for students and scientists with backgrounds in physics, chemistry, or biology
- Connects principles of physical chemistry to biochemistry
- Emphasizes the role of organic reactions as tools for modification and manipulation of biomolecules
- Includes a comprehensive section on the theory of modern biophysical methods and their applications
- Contains access to a solutions manual, with annotated answers to problems



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6000 Broken Sound Parkway, NW
Suite 300, Boca Raton, FL 33487
711 Third Avenue
New York, NY 10017
2 Park Square, Milton Park
Abingdon, Oxon OX14 4RN, UK

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