



Physical Biochemistry: Principles and Applications

By David Sheehan

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An accessible and easy-to-read text for students requiring a broad overview of the key techniques used to characterise the structure and function of complex biomacromolecules such as proteins and DNA. It bridges the gap between general biochemistry textbooks and the more specialist texts covering individual techniques.

Topics covered include chromatography, spectroscopy, mass spectrometry, electrophoresis, X-ray diffraction, centrifugation and biocalorimetry. New developments are placed in context by describing the physical principles on which they depend, examining the range of biophysical applications most widely used and, emphasising the overall similarities of experimental approach.

Written by a biochemist with extensive teaching experience, the book:

- * describes the advantages and disadvantages of each technique and compares one technique to another;
- * introduces experimental approaches in a non-mathematical way, using practical examples; and
- * provides a bibliography, including useful web sites, at the end of each chapter.

This book will be invaluable to undergraduates and postgraduates studying biochemistry, molecular biology and related disciplines.

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Editorial Review

Review

"As will be seen, there is not much missing here. I thought that the sections were well balanced, with rarely too much or too little on a given topic....This is a text to be welcomed by both teachers and students."
(Biochemistry & Molecular Biology Education, No.29, 2001)

"the explanations are really clear" (Nahrung/Food Vol.45, No.4, 2001)

From the Back Cover

Physical Biochemistry: Principles and Applications provides a broad overview of the key techniques currently used to characterise the structure and function of complex biomacromolecules such as proteins and DNA. It bridges the gap between general biochemistry textbooks and the more specialist texts covering individual techniques. Topics covered include chromatography, spectroscopy, mass spectrometry, electrophoresis, X-ray diffraction, centrifugation and biocalorimetry. New developments are placed in context by describing the physical principles on which they depend, examining the range of biophysical applications most widely used and, emphasising the overall similarities of experimental approach. Written by a biochemist with extensive teaching experience, the book:

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