

Many current questions in biology are probed by using a range of biophysical methods, often in tandem. These increasingly powerful and sophisticated tools allow us to study the structure and dynamics of the complicated mixture of interacting molecules that make up the living cell.

Biophysical Techniques explains in a readily accessible way the basics of the various methods available—including those used to study molecular structure, cell structure, and dynamic interactions—so that you can understand the principles behind the different methods used, which techniques to use when probing different biological questions, and the pros and cons of each.

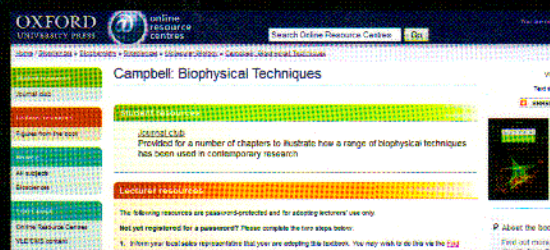
- ▶ Provides a broad-ranging overview of all of the key biophysical techniques that are routinely used to study biological systems, from classical spectroscopic tools to the latest computational techniques.
- ▶ Uses real experimental data throughout to present an explanation of the theoretical underpinning of the techniques alongside their real-world applications.
- ▶ Assumes little in the way of prior knowledge, providing explanations of key physical and mathematical concepts through a series of Tutorials and in-text boxes.
- ▶ Illustrated throughout with custom-drawn artwork to help you visualize the concepts being described.

In an age in which we are probing the working of biological systems in more detail, and with more refinement, than ever before, *Biophysical Techniques* is the ideal guide for any student who needs to understand the power of biophysical techniques in furthering our understanding of biological systems.



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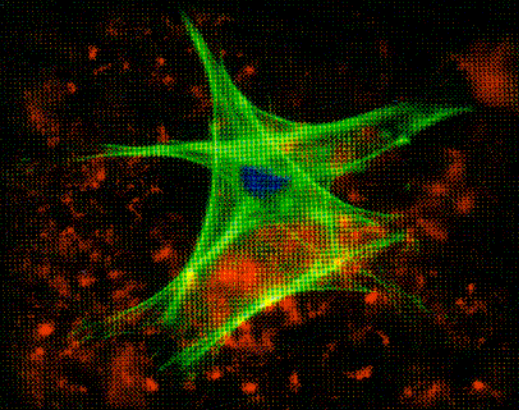


FOR STUDENTS:

Journal Clubs for a number of chapters illustrate how a range of biophysical techniques has been used in contemporary research

FOR REGISTERED ADOPTERS OF THE TEXT:

Figures from the book in electronic format



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