

Introduction to

EXPERIMENTAL BIOPHYSICS

"This book will be appropriate for any experimentalist in chemistry or physics who is moving into biological work. It will also be excellent reading material for undergraduate or graduate students who will be working in a biologically oriented lab, as well as for an advanced lab class in biophysics or bioengineering."

—Professor Mark C. Williams, Northeastern University

"This book will be very useful for training the growing number of researchers and students from physical sciences who need to become more familiar with techniques used in biology. The author has made great effort to keep everything defined and simple."

—Professor James A. Forrest, University of Waterloo

"This book fills the need for a practical, hands-on guide for physical scientists who are moving into biological research."

—Professor Daniel A. Beard, Medical College of Wisconsin

The number of experimental techniques in biology is vast and often specific to particular subject areas; nonetheless, there are a few basic methods that provide a conceptual underpinning for broad application. *Introduction to Experimental Biophysics* is the ideal benchtop companion for physical scientists interested in getting their hands wet. Assuming familiarity with basic physics and the scientific method but no previous background in biology or chemistry, this book provides:

- A thorough description of modern experimental and analytical techniques used in biological and biophysical research
- Practical information and step-by-step guidance on instrumentation and experimental design
- Recipes for common solutions and media, lists of important reagents, and a glossary of biological terms used

Developed for graduate students in biomedical engineering, physics, chemical engineering, chemistry, mathematics, and computer science, *Introduction to Experimental Biophysics* is an essential resource for scientists to overcome conceptual and technical barriers to working in a biology wet lab.



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