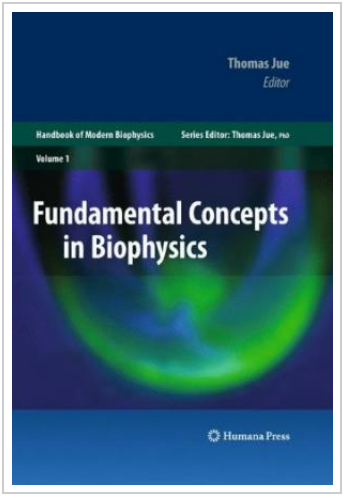

Fundamental Concepts in Biophysics: Volume 1

By -

Humana Press. Hardcover. Book Condition: New. Hardcover. 248 pages. Dimensions: 10.3in. x 7.5in. x 0.8in.In the first volume, Fundamental Concepts in Biophysics, the authors lay down a foundation for biophysics study. Rajiv Singh opens the book by pointing to the central importance of Mathematical Methods in Biophysics. William Fink follows with a discussion on Quantum Mechanics Basic to Biophysical Methods. Together, these two chapters establish some of the principles of mathematical physics underlying many biophysics techniques. Because computer modeling forms an intricate part of biophysics research, Subhadip Raychaudhuri and colleagues introduce the use of computer modeling in Computational Modeling of ReceptorLigand Binding and Cellular Signaling Processes. Yin Yeh and coworkers bring to the readers attention the physical basis underlying the common use of fluorescence spectroscopy in biomedical research in their chapter Fluorescence Spectroscopy. Electrophysiologists have also applied biophysics techniques in the study of membrane proteins, and Tsung-Yu Chen et al. explore stochastic processes of ion transport in their Electrophysiological Measurements of Membrane Proteins. Michael Saxton takes up a key biophysics question about particle distribution and behavior in systems with spatial or temporal inhomogeneity in his chapter SingleParticle Tracking. Finally, in NMR Measurement of Biomolecule Diffusion, Thomas Jue explains how magnetic...

Reviews

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