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## Modern Tools of Biophysics (Hardback)

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Language: English . Brand New Book. Handbook of Modern Biophysics brings current biophysics topics into focus, so that biology, medical, engineering, mathematics, and physical-science students or researchers can learn fundamental concepts and the application of new techniques in addressing biomedical challenges. Chapters will develop the conceptual framework of the physics formalism and illustrate the biomedical applications. With the addition of problem sets, guides to further study, and references, the interested reader can continue to independently explore the ideas presented. Volume 5: Modern Tools of Biophysics Editor: Thomas Jue, PhD In Modern Tools of Biophysics, a group of prominent professors have provided insights into the tools used in biophysics with respect to the following topics: Wave Theory of Image Formation in a Microscope: Basic Theory and Experiments Computer Simulations and Nonlinear Dynamics of Cardiac Action Potentials Myoglobin and Hemoglobin Contribution to the NIRS Signal in Muscle Anomalous Low Angle X-Ray Scattering of Membrane with Lanthanides Recording of Ionic Currents under Physiological Conditions-Action Potential-Clamping and Onion-Peeling Techniques Patch Clamp Technique and Applications About the Editor Thomas Jue is a Professor in the Department of Biochemistry and Molecular Medicine at the University of California,...



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