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Biophysics (Hardback)

By V. Pattabhi, N. Gautham

Alpha Science International Ltd, United Kingdom, 2010. Hardback. Book Condition: New. 2nd Revised edition. 242 x 188 mm. Language: English . Brand New Book. Biophysics is an interdisciplinary topic of great importance in Modern Biology. This volume not only addresses the needs of biologists and biochemists but also contains material for a one-semester course offered to Master s students of life sciences. It covers a wide range of topics from quantum mechanics to pre-biotic evolution. Key features: understanding the topics covered in the book requires only basic, school level mathematics; introduces and refreshes the reader s knowledge of physics and chemistry. Covers various physico - chemical techniques used to study biomolecular structures; treatment of spectroscopy, microscopy, diffraction and computational techniques; detailed coverage of X-ray crystallography and NMR; exemplifies results of applications covered in the book; and inclusion of related topics namely energy pathways, biomechanics and neuro-biophysics. New to the Second Edition: introductory topics extensively revised; explanations simplified to make them more accessible; new topics introduced - DNA nanostructure, mass spectroscopy; and figures and tables modified and improved.

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