



## The Physics of Living Processes: A Mesoscopic Approach (Paperback)

By Thomas Andrew Waigh

John Wiley Sons Inc, United States, 2014. Paperback. Condition: New. 1. Auflage. Language: English . Brand New Book. This full-colour undergraduate textbook, based on a two semester course, presents the fundamentals of biological physics, introducing essential modern topics that include cells, polymers, polyelectrolytes, membranes, liquid crystals, phase transitions, self-assembly, photonics, fluid mechanics, motility, chemical kinetics, enzyme kinetics, systems biology, nerves, physiology, the senses, and the brain. The comprehensive coverage, featuring in-depth explanations of recent rapid developments, demonstrates this to be one of the most diverse of modern scientific disciplines. The Physics of Living Processes: A Mesoscopic Approach is comprised of five principal sections: Building Blocks Soft Condensed Matter Techniques in Biology Experimental Techniques Systems Biology Spikes, Brains and the Senses The unique focus is predominantly on the mesoscale structures on length scales between those of atoms and the macroscopic behaviour of whole organisms. The connections between molecules and their emergent biological phenomena provide a novel integrated perspective on biological physics, making this an important text across a variety of scientific disciplines including biophysics, physics, physical chemistry, chemical engineering and bioengineering. An extensive set of worked tutorial questions are included, which will equip the reader with a range of new physical...



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