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## Biomembrane Frontiers : Nanostructures, Models, and the Design of Life

By Thomas Jue

Springer-Verlag GmbH Jul 2009, 2009. Buch. Condition: Neu. Neuware - HANDBOOK OF MODERN BIOPHYSICS Series Editor Thomas Jue, PhD 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 explicate 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 explore independently the ideas presented. Volume II: Biomembrane Frontiers: Nanostructures, Models, and the Design of Life Editors: Roland Faller, PhD, Thomas Jue, PhD, Marjorie L. Longo, PhD, and Subhash H. Risbud, PhD In Biomembrane Frontiers: Nanostructures, Models, and the Design of Life , prominent researchers have established a foundation for the study of biophysics related to the following topics: Perspectives: Complexes in Liquids, 1900-2008 Molecular Theory Applied to Lipid Bilayers and Lipid-Protein Interactions Membrane Elasticity and Mediated Interactions in Continuum Theory: A Differential Geometric Approach Structure and Dynamics of Lipid Monolayers: Theory and Applications Multiscale Modeling of Supported Lipid Bilayers Collective Dynamics in Lipid Membranes: From Pore Formation to Flip-Flops Spatiotemporal Organization of Spin-Coated...



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