



## Numerical Simulations of Biological Membrane Geometry

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Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Power of Mathematics in Biological Geometric Design | This book introduces a methodology for the numerical simulation of stable structures of fluid membranes and vesicles in biological organisms. In particular, the effects of spontaneous curvature on vesicle cell membranes under the bending energy for given volume and surface area are discussed. Furthermore, in this book also discusses the concept for geometric design of morphological motion of cells. In this book the concept of Partial Differential Equations for surface generations and for shape parameterization combined with techniques for numerical optimization are utilized to predict the stable structures of vesicles in biological organisms as well as prediction of morphological Processes. | Format: Paperback | Language/Sprache: english | 140 gr | 220x150x5 mm | 92 pp.



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