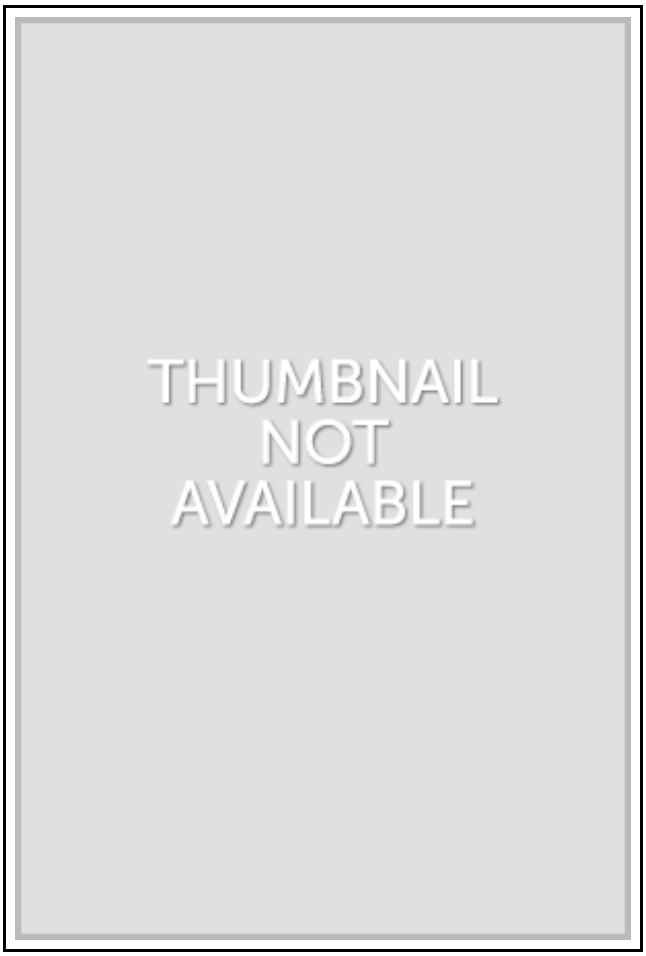
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Springer. Hardcover. Book Condition: New. Hardcover. 238 pages. Dimensions: 9.2in. x 6.1in. x 0.8in.Themulticomponentnatureofbiologicalmembranesandtheirintra- andextracel- lar interactions make direct investigations on the membrane structure and processes nearly impossible. Clearly, a better understanding of the membrane properties and the mechanisms determining membrane protein functions is crucial to the imp- mentation of biosensors, bioreactors and novel platforms for medical therapy. For this reason, the interest in model systems suitable for the construction and study of complex lipidprotein membrane architectures has increased steadily over the years. The classical portfolio of model membranes used for biophysical and - terfacial studies of lipid (bi)layers and lipidprotein composites includes Langmuir monolayers assembled at the waterair interface, (uni- and multi-lamellar) vesicles in bulk (liposomal) dispersion, bimolecular lipid membranes (BLMs), and various types of solid-supported membranes. All these have specic advantages but also suffer from serious drawbacksthat limit their technical applications. Polymer m- branes comprised of entirely synthetic or hybrid (synthetic polymerbiopolymer) block copolymersappeared to be an attractive alternative to the lipid-based models. Generally, the synthetic block copolymer membranes are thicker and more stable and the versatility of polymer chemistry allows the adoption of relevant properties for a wide range of applications. This volume provides a vast overview of the physico-chemical and synthetic - pectsofarticial membranes. Numerousmembranemodelsaredescribed, including their properties(i. e. swelling, drying, lateral mobility, stability, electrical conduct- ity, etc.), advantages, and drawbacks. The potential applications of these models are discussed and supported by real examples. Chapter 1 summarizesmethodsfor the stabilizationof articial lipid membranes. This item ships from multiple locations. Your book may arrive from Roseburg,OR, La Vergne,TN. Hardcover.

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