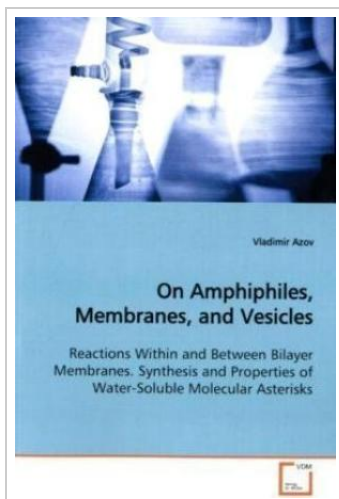




On Amphiphiles, Membranes, and Vesicles

By Azov, Vladimir

Condition: New. Publisher/Verlag: VDM Verlag Dr. Müller | Reactions Within and Between Bilayer Membranes. Synthesis and Properties of Water-Soluble Molecular Asterisks | The first part of the book describes kinetic studies between a nucleophile and an electrophile when one or both of the reagents were incorporated into vesicles (liposomes) and compares reaction rates for the same reagents in a solution. Several modes of reactivity under comparable conditions have rates of decreasing magnitude according to intra-vesicular solution/solution solution/vesicle inter-vesicular. Vesicle/vesicle reactivity models numerous cell/cell reactions found in biology. The second part of the book discusses a family of new asterisk-shaped amphiphiles, which were prepared and studied by means of tensiometry, calorimetry, dynamic light scattering, UV/Vis spectroscopy, fluorescence spectroscopy, conventional NMR spectroscopy and FT-PGSE NMR spectroscopy. These water-soluble asterisk-shaped amphiphiles belong to a fast-growing family of structurally novel amphiphiles, appearing on the scientific scene and expanding the scope of Colloid Chemistry. The book is aimed at a broad auditorium of scientists interested in Organic, Physical Organic, Supramolecular, and Colloid Chemistry. | Format: Paperback | Language/Sprache: english | 212 gr | 152 pp.



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