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Membranes and Molecular Assemblies: The Synkinetic Approach

By Jürgen-Hinrich Fuhrhop, Freie Universität Berlin, Germany Jürgen Köning, Freie Universität Berlin, Germany

Membranes and Molecular Assemblies: The Synkinetic Approach is an inspiring, illustrated text in glorious full colour. It contains 118 colour illustrations and a further 70 in black and white. Great care has been taken to choose graphics that illustrate difficult concepts. The book describes the wealth of membrane structures realized by chemists mainly within the last two decades - micelles, vesicles, fibres, and surface monolayers - from the point of view of supramolecular chemistry. It puts new emphasis on "synkinetic" procedures for the preparation of non-covalent assemblies as well as their structural characterization by electron microscopy, solid state NMR spectroscopy, and comparison to X-ray crystal structures. The supramolecular structure of well-defined molecular assemblies and their use as complex reaction systems is also emphasized. Stereoselective surface recognition, asymmetric membranes, vectorial photoreactions, solid molecular bilayers in the form of tubules or helical rods, and sealable nanopores in membranes or on electrode surfaces are a few outstanding examples. In addition, the importance of well-defined gaps on surfaces and within membranes and crystals is discussed in context for the first time.

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