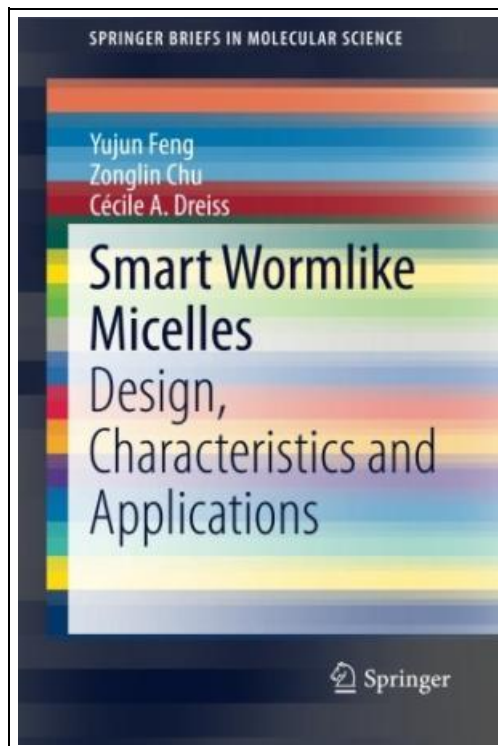


Smart Wormlike Micelles



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SMART WORMLIKE MICELLES



Springer-Verlag Gmbh Feb 2015, 2015. Taschenbuch. Book Condition: Neu. 23.5x15.5x cm. Neuware - This Brief provides an up-to-date overview of smart surfactants and describes a broad spectrum of triggers that induce the formation of wormlike micelles or reversibly tune the morphology of surfactant aggregates from wormlike micelles to another state, or vice versa. Combining the fields of chemistry, physics, polymer science, and nanotechnology, its primary focus is on the design, formulation, and processing of intelligent viscoelastic surfactant solutions, covering the scientific principles governing responsiveness to one or more particular triggers, down to the end-use-driven functions. The first chapter explains why and how surfactants self-assemble into viscoelastic wormlike micellar solutions reminiscent of polymer solutions, while the following chapters show how the response to a given trigger translates into macroscopic rheological changes, including temperature, light, pH, CO₂, redox, hydrocarbon, etc. The last chapter demonstrates the applications of these viscoelastic assemblies in oil and gas production, drag reduction, biomaterials, cleaning processes, electrorheological and photorheological fluids. Comments and perspectives are provided at the end to conclude this Brief. This Brief is aimed at chemists, physicists, chemical engineers and nano-scientists who are involved in self-assemblies and applications of surfactants, as well as graduates in physical chemistry. Yujun Feng, Ph.D., is a professor at the State Key Laboratory of Polymer Materials Engineering, Polymer Research Institute of Sichuan University, Chengdu, Sichuan Province, P. R. China. Zonglin Chu, Ph.D., is a post-doctoral fellow working at the Physical Chemistry Institute, University of Zürich, Switzerland. Cécile A. Dreiss, Ph.D., is a senior lecturer at the Institute of Pharmaceutical Science, King's College London, UK. 91 pp. Englisch.



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