



Aqueous Polymer Cosolute Systems

By Anghel, Dan F.

Book Condition: New. Publisher/Verlag: Springer, Berlin | Special Issue in Honor of Dr. Shuji Saito | Springer-Verlag 2003 This issue is dedicated to Doctor Shuji Saito on the occasion of the 50th anniversary of his first paper published in the Journal of German Colloid Society. The paper entitled Die Solubilisation von Polyvinylazetat by N. Sata and S. Saito appeared in the Kolloid Zeitschrift (1952) 128: 154. According to the title, the paper dealt with the solubilization of poly(vinyl acetate) (PVAc) in aqueous sodium dodecyl sulfate (SDS) solutions. The authors observed that PVAc, a water-insoluble polymer, is completely dissolved by micellar SDS solutions, a result that mostly intrigued them. One has to recall that at that time, the micellar solubilization was the only available theory to explain the dissolution of hydrophobic compounds in micellar systems. The theory worked well in the case of low molecular weight compounds like hydrocarbons, oleophilic dyes, etc., which are solubilized in the inner core of the micelle, but how can a small micelle accommodate a giant polymer molecule? To solve this problem Sata and Saito originally proposed a model consisting of surfactant aggregates formed along the polymer backbone. The model based on simple viscometric...



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