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Principles of colloid and surface chemistry solutions

8 Colloidal structures of the Surfactant Solutions Association Colloids I for my part have never known an irregular, which was not also what Nature evidently intended him to be- ... up to the limits of his power, a perpetrator of all forms of mischief. From Abbott's Flatland 8.1 INTRODUCTION 8.1a What is The Self-Assembly and What Are Association Colloids? In the last chapter, we examined the tendency of surfactant molecules in aqueous solutions to adsorb on a surface in the form of a monolayer. In this chapter we continue to study surfactant solutions, this time considering a few of the many possible forms of organization they can adopt within a bulk phase. This process of organization is thermodynamically driven and is spontaneous, as in the case of Langmuir ... This work aims to familiarize students with the basics of colloidal and surface science, from different types of colloids and colloidal phenomena, and classical and modern characterization/measurement techniques to applications of colloids and surface sciences in engineering, technology, chemistry, physics and biological and medical sciences. The Journal of Textile Studies proclaims high praise from peers ... contains valuable information on many topics of interest to food reologists and polymer researchers... [The book] should be in the libraries of academic and industrial food research organizations, and Chromatographia describes the book as ... an excellent textbook, excellently organized, clearly written and well laid out. Colloidal and surface chemistry - scope and variables; sedimentation and diffusion and their equilibrium solution thermodynamics - osmotic and Donnan equilibrium; scattering reology static and dynamic light sprawl and other radiation bursting surface tension and contact angle - application to pure substances adsorption from solution and monolayering colloidal structures in surfactant solutions - association colloids; adsorption at gassolid interfaces van der Waal's strengths; the electrical double layer and double layer interactions electrophoresis and other electrokinetic phenomena electrostatic and polymer-induced colloidal stability Appendix A - examples of extensions in this book; Appendix B - units - CGS-SI interconverting versions Appendix C - statistics on discrete and continuous data distributions Appendix D - list of prepared examples. High praise from peers ... contains valuable information on many topics of interest to food ologists and polymer researchers. ... libraries of academic and industrial food research organisations. ---Journal of Texture Studies ... treatment is unique. Perhaps the most striking thing is the introduction of short vignettes. ..., which elaborates on the most important point in the text. This is a fine revision of a fine book. Highly recommended. ---journal of Science and technology ... an excellent textbook, excellently organized, clearly written and well laid out. ---Chromatographia Controlled release researchers will find the book of greater help in solving problems related to diffusion, sedimentation, osmosis, dispersion, colloidal suspensions, light dispersion, surface tension, double-layer theory, electroninetic phenomena and colloidal stability. ... Recommended. ---Journal of Controlled Release 0 CrossRef quotes to date Page 2 DOI link for principles of colloidal and surface chemistry, revised and expanded Principles of Colloidal and Surface Chemistry, revised and expanded book