



The Colloidal Domain: Where Physics, Chemistry, Biology, and Technology Meet

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The Colloidal Domain Encompasses Many Biological and Technological Systems xxv. Understanding of Colloidal Phenomena Is Advancing Rapidly xxvii. Association Colloids Display Key Concepts That Guided the Structure of this Book xxix. Literature 35. 2 / Surface Chemistry and Monolayers 37. 2.1 We Can Comprehend Surface Tension in Terms of Surface Free Energy 41. 2.1.1. Molecular Origins of Surface Tension Can Be Understood in Terms of the Difference in Interaction Between Molecules in the Bulk and at the Interface 41. 2.1.2. Two Complementary Concepts Define Surface Tension: Line of Force and Energy Required to Create New Surface Area 43. Colloid chemistry Recommended readings: E. Tombacz: Colloid Chemistry for Pharmaceutical Students. Manuscript, Szeged 1988. D. F. Evans, H. Wennerström: The Colloidal Domain: Where Physics, Chemistry, Biology and Technology Meet. 2nd Ed., Wiley-VCH, New York 1999. D. H. Everett: Basic Principles of Colloid Science. List and explain several technological applications of colloids. As a child, you may have made suspensions such as mixtures of mud and water, flour and water, or a suspension of solid pigments in water, known as tempera paint. These suspensions are heterogeneous mixtures composed of relatively large particles that are visible (or that can be seen with a magnifying glass). They are cloudy, and the suspended particles settle out after mixing. On the other hand, when we make a solution, we prepare a homogeneous mixture in which no settling occurs and in which the dissolved species are molecules or ions. Recommended readings: "The Colloidal Domain: Where Physics, Chemistry, Biology, and Technology Meet" by D Fennell Evans, "Nanoscience: Colloidal and Interfacial Aspects" by Victor M Starov, "Fluids, Colloids and Soft Materials: An Introduction to Soft Matter Physics" by Alberto Fernandez-Nieves, "Physical-Chemical Mechanics of Disperse Systems and Materials" by Eugene D Shchukin, "Oil Spill Remediation: Colloid Chemistry-Based Principles and Solutions" by Ponisseril Somasundaran. Manish Bhojasia, a technology veteran with 20+ years @ Cisco & Wipro, is Founder and CTO at Sanfoundry. He is Linux Kernel Developer & SAN Architect and is passionate about competency developments in these areas. He lives in Bangalore and delivers focused