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| Nota di contenuto | Colloids in Paints; Contents; Preface; 1 Colloids in Paints; 1.1 The Disperse Particles; 1.2 The Dispersion Medium and Film Formers; 1.3 Deposition of Particles and Their Adhesion to the Substrate; 1.4 Flow Characteristics (Rheology) of Paints; References; 2 Emulsion, Dispersion and Suspension Polymerization: Preparation of Polymer Colloids and Their Stabilization; 2.1 Emulsion Polymerization; 2.1.1 Mechanism of Emulsion Polymerization; 2.1.2 Block Copolymers as Stabilizers in Emulsion Polymerization; 2.1.3 Graft Copolymers as Stabilizers in Emulsion Polymerization 2.2 Polymeric Surfactants for Stabilization of Preformed Latex Dispersions 2.3 Dispersion Polymerization; 2.3.1 Mechanism of Dispersion Polymerization; 2.3.2 Influence of Polymeric Surfactant Concentration and Molecular Weight on Particle Formation; 2.3.3 Effect of Monomer Solubility and Concentration in the Continuous Phase; 2.3.4 Stability/Instability of the Resulting Latex; 2.3.5 Particle Formation in Polar Media; References; 3 Pigment Dispersion; 3.1 Powder Wetting; 3.1.1 Wetting of Substrates; 3.1.2 Adhesion Tension; 3.1.3 Work of Adhesion, Wa; 3.1.4 The Work of Cohesion |

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4.2.2 Flocculation of Electrostatically Stabilized Suspensions

Sommario/riassunto

The first modern approach to relate fundamental research to the applied science of colloids, this series bridges academic research and practical applications, thus providing the information vital to both. Written by the very best scientists in their respective disciplines, this volume describes the role of colloids in paints, highlighting the importance of fundamental research in industrial applications. For surface, polymer and physicochemists, materials scientists, and chemical engineers.
