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Structure and Functional Properties of Colloidal Systems (Hardback)

By -

Taylor Francis Inc, United States, 2009. Hardback. Book Condition: New. New.. 257 x 175 mm. Language: English . Brand New Book. Integrating fundamental research with the technical applications of this rapidly evolving field, Structure and Functional Properties of Colloidal Systems clearly presents the connections between structure and functional aspects in colloid and interface science. It explores the physical fundamentals of colloid science, new developments of synthesis and conditioning, and many possible applications. Theory Divided into three parts, the book begins with a discussion of the theoretical side of colloid dynamics. It then transitions to dynamically arrested states and capillary forces in colloidal systems at fluid interfaces. Structure Covering the structural aspects of different colloidal systems, the second section examines electric double layers and effective interactions as well as the structure of extremely bimodal suspensions and filaments made up of micro-sized magnetic particles. The contributors analyze the role played by the attractive interaction, confinement, and external fields on the structure of colloidal systems. They also discuss structural aspects in food emulsions and the rheological properties of structured fluids. Functional Materials The last part focuses on examples of functional colloids. These include polymer colloids, protein-functionalized colloidal particles, magnetic particles, metallic nanoparticles, micro-...



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