Powders and Fibers: Interfacial Science and Applications (Surfactant Science)

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New analytical methods have provided further insight into the structure, surface characteristics, and chemistries of increasingly small particles. However, current literature offers information on only a limited number of powders being investigated. Written by renowned scientists in the field, Powders and Fibers: Interfacial Science and Applications examines the most appropriate characterization methods for analyzing powders and fibers. Using these techniques, the authors explore the formation and roles of various multiphase interfaces. They consider the potential for enhancing performance and highlight related applications, particularly for powders and fibers.

The book details characteristics such as morphology, surface energetics, surface ionization, and electrokinetics for solid-gas, solid-rubber, solid-solid, solid-liquid, and biological interfaces. Areas of multidisciplinary interest also include the adsorption of biomolecules and biocompatibility of powders and fibers, nanoparticles and nanocomposites, biochips, and other biomedical applications, the measurement and significance of wettability, recent rheological data on mixes, and computer simulations used for visualizing complex solid surfaces.

As interest in the behavior and applications of powders and fibers steadily increases, Powders and Fibers: Interfacial Science and Applications offers a diverse approach that bridges fundamental aspects of interfacial science with applications of powders and fibers that is useful for newcomers as well as practitioners in related fields.

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