Surface Chemistry Essentials

By K. S. Birdi

Taylor & Francis Inc. Paperback. Book Condition: new. BRAND NEW, Surface Chemistry Essentials, K. S. Birdi, Surface chemistry plays an important role in everyday life, as the basis for many phenomena as well as technological applications. Common examples range from soap bubbles, foam, and raindrops to cosmetics, paint, adhesives, and pharmaceuticals. Additional areas that rely on surface chemistry include modern nanotechnology, medical diagnostics, and drug delivery. There is extensive literature on this subject, but most chemistry books only devote one or two chapters to it. Surface Chemistry Essentials fills a need for a reference that brings together the fundamental aspects of surface chemistry with up-to-date references and data from real-world examples. This book enables readers to better understand many natural phenomena and industrial processes. Mathematical treatment is mainly given as references to make the material accessible to individuals with a broader range of scientific backgrounds. The book begins by introducing basic considerations with respect to liquid and solid surfaces and describes forces in curved versus flat liquid surfaces. Chapters cover properties of surface active substances, such as surfactants and soaps; lipid films and Langmuir-Blodgett films; and adsorption and desorption on solid surfaces. The author discusses processes involved in liquid-solid interface...

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