



Surface and Colloid Chemistry: Principles and Applications

K. S. Birdi

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Surface and colloid chemistry principles impact many aspects of our daily lives, ranging from the cleaners and cosmetics we use to combustion engines and cement. Exploring the range of this field of study, **Surface and Colloid Chemistry** provides a detailed analysis of its principles and applications and demonstrates how they relate to natural phenomena and industrial processes.

Surface and colloid chemistry at work in nature and industry:

- rain drops
- combustion engines
- soap bubbles
- foam
- food products
- air pollution
- waste-water treatment
- washing and cleaning
- cosmetics
- painting and printing
- oil and gas production
- oil spills
- plastics and polymers
- biology and pharmaceuticals
- milk products
- cement
- adhesive
- coal

The book begins with an introduction to surfaces and colloids. It describes basic considerations regarding liquids and capillarity, and examines the liquid-solid interface phenomena. It explores the physicochemical properties of surfactants, Langmuir-Blodgett films, adsorption on solid surfaces, and adsorption as it relates to cleaning processes. Then the author examines colloidal systems and thin liquid films before moving on to emulsion science and technology. The final chapter provides examples of applications in science and a range of industries.

Examples and Illustrations

Integrating real-world examples throughout the text, this volume stimulates readers to consider both fundamental theory and industrial applications. More than 100 figures elucidate the concepts described in the text. Sample questions and answers are provided where appropriate, along with detailed data and discussions. Pertinent references are offered to facilitate further study.

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