



Colloidal Silica: Fundamentals and Applications (Surfactant Science)

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In spite of the apparent simplicity of silica's composition and structure, scientists are still investigating fundamental questions regarding the formation, constitution, and behavior of colloidal silica systems. **Colloidal Silica: Fundamentals and Applications** introduces new information on colloid science related to silica chemistry as well as theoretical and experimental aspects of significant areas of colloidal silica science and technology. This resource is dedicated to helping researchers find new uses of silica and answers to practical problems as its industrial use continues to grow steadily in traditional and novel areas.

Written by leading silica scientists around the world, this book reflects developments in the field since silica scientist Ralph K. Iler published his authoritative book on silica chemistry in 1979. It discusses properties and methods of characterization, synthesis, and preparation of silica in terms of industrial applications. Following an analysis of the surface chemistry of various silicas, the book explores methods for measuring particle size and useful characterization techniques for determining structure, stability, and reactivity. The authors then focus on various studies, analytical methods, and current applications involving silica gels and powders, silica coatings, colloidal silica, and sol-gel technology.

Colloidal Silica: Fundamentals and Applications features up-to-date material relating to fields as diverse as catalysis, metallurgy, electronics, glass, ceramics, paper and pulp technology, optics, elastomers, food, health care, and industrial chromatography. It is ideal for scientists interested in silica chemistry and physics as well as those not familiar with the subject.

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Editorial Review

About the Author

Bergna is a Senior Research Associate at the DuPont Experimental Station. Bergna received his Licenciado and doctorate in chemistry at the National University of La Plata in Argentina.

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