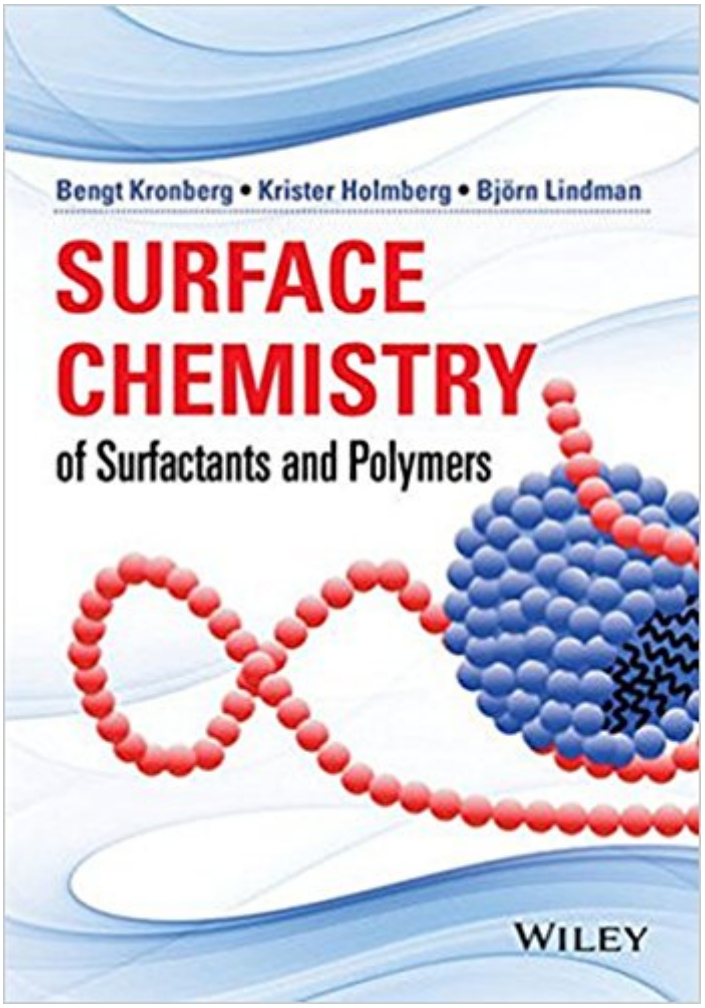
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Surface Chemistry Of Surfactants And Polymers



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Synopsis

This book gives the reader an introduction to the field of surfactants in solution as well as polymers in solution. Starting with an introduction to surfactants the book then discusses their environmental and health aspects. Chapter 3 looks at fundamental forces in surface and colloid chemistry. Chapter 4 covers self-assembly and 5 phase diagrams. Chapter 6 reviews advanced self-assembly while chapter 7 looks at complex behaviour. Chapters 8 to 10 cover polymer adsorption at solid surfaces, polymers in solution and surface active polymers, respectively. Chapters 11 and 12 discuss adsorption and surface and interfacial tension, while Chapters 13- 16 deal with mixed surfactant systems. Chapter 17, 18 and 19 address microemulsions, colloidal stability and the rheology of polymer and surfactant solutions. Wetting and wetting agents, hydrophobization and hydrophobizing agents, solid dispersions, surfactant assemblies, foaming, emulsions and emulsifiers and microemulsions for soil and oil removal complete the coverage in chapters 20-25.

Book Information

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Customer Reviews

Ã¢â ¬Å“It is definitely of great value to practitioners in the surface chemistry field.Ã¢â ¬Â•Ã Â (Chemistry in Australia, 1 July 2015)

Krister Holmberg is Professor of Surface Chemistry and Director of Materials Science Area of Advance at Chalmers University of Technology in GÃƒÂ¶teborg (Sweden). He was awarded a PhD at Chalmers University and after gaining his doctorate, he worked as a researcher at a number of

Swedish chemical companies. From 1991 to 1997 he was head of the Surface Chemistry Institute, Stockholm (Sweden). He was also adjunct professor at GÃƒÂ¶teborg University in Biotechnical Surface Chemistry and at the Royal Institute of Technology in Technical Surface and Colloid Chemistry. Professor Holmberg's current research interests include novel surfactants, organic and bioorganic reactions in organized media such as microemulsions and suspensions of mesoporous materials, and controlled delivery of active substances. Professor Bengt Kronberg is a Senior Research Fellow and Course Director at SP Technical Research Institute of Sweden. He has a long experience in teaching fundamental and applied aspects of surface chemistry. He has published over 80 papers in the field and is a co-author of the book "Surfactants and Polymers in Aqueous Solution". Professor Kronberg supervises research in the fields of microemulsions, adsorption of surfactants and polymers, fuel formulations, and polymeric networks. Professor BjÃƒÂ¶rn Lindman is senior scientist at the Department of Physical Chemistry, University of Lund, Sweden and Visiting Professor at School of Materials Science & Engineering at Nanyang Technological University, Singapore. He has published more than 600 papers, and co-authored three books and edited more than ten books in the field of surface and colloid chemistry. Furthermore he is a well-known lecturer and consultant worldwide. Professor Lindman's current research projects include: DNA gel particles and cross-linked DNA gels, Controlling the phase behavior of polyion-surfactant ion complex salts by cyclodextrins and associative effects of polyacrylates in surfactant systems.

That's a very good book on surfactants and polymers in liquid.

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