

Contents – Volume 2

Contributors List	ix	CHAPTER 7 Wetting, Spreading and Penetration	119
Foreword <i>Brian Vincent</i>	xiii	<i>Karina Grundke</i>	
Preface	xv	CHAPTER 8 Foam Breaking in Aqueous Systems	143
PART 3 Colloidal Systems and Layer Structures at Surfaces	1	<i>Robert J. Pugh</i>	
CHAPTER 1 Solid Dispersions	3	CHAPTER 9 Solubilization	159
<i>Staffan Wall</i>		<i>Thomas Zemb and Fabienne Testard</i>	
CHAPTER 2 Foams and Foaming	23	CHAPTER 10 Rheological Effects in Surfactant Phases	189
<i>Robert J. Pugh</i>		<i>Heinz Hoffmann and Werner Ulbricht</i>	
CHAPTER 3 Vesicles	45	PART 5 Analysis and Characterization in Surface Chemistry	215
<i>Brian H. Robinson and Madeleine Rogerson</i>		CHAPTER 11 Measuring Equilibrium Surface Tensions	217
CHAPTER 4 Microemulsions	55	<i>Michael Mulqueen and Paul D. T. Huibers</i>	
<i>Klaus Wormuth, Oliver Lade, Markus Lade and Reinhard Schomäcker</i>		CHAPTER 12 Measuring Dynamic Surface Tensions	225
CHAPTER 5 Langmuir–Blodgett Films	79	<i>Reinhard Miller, Valentin B. Fainerman, Alexander V. Makievski, Michele Ferrari and Giuseppe Loglio</i>	
<i>Hubert Motschmann and Helmuth Möhwald</i>		CHAPTER 13 Determining Critical Micelle Concentration	239
CHAPTER 6 Self-Assembling Monolayers: Alkane Thiols on Gold	99	<i>Alexander Patist</i>	
<i>Dennis S. Everhart</i>			
PART 4 Phenomena in Surface Chemistry	117		

CHAPTER 14	Measuring Contact Angle	251	CHAPTER 19	Measurement of Electrokinetic Phenomena in Surface Chemistry	371
	<i>C. N. Catherine Lam, James J. Lu and A. Wilhelm Neumann</i>			<i>Norman L. Burns</i>	
CHAPTER 15	Measuring Micelle Size and Shape	281	CHAPTER 20	Measuring Interactions between Surfaces	383
	<i>Magnus Nydén</i>			<i>Per M. Claesson and Mark W. Rutland</i>	
CHAPTER 16	Identification of Lyotropic Liquid Crystalline Mesophases	299	CHAPTER 21	Measuring the Forces and Stability of Thin-Liquid Films	415
	<i>Stephen T. Hyde</i>			<i>Vance Bergeron</i>	
CHAPTER 17	Characterization of Microemulsion Structure	333	CHAPTER 22	Measuring Adsorption	435
	<i>Ulf Olsson</i>			<i>Bengt Kronberg</i>	
CHAPTER 18	Measuring Particle Size by Light Scattering	357	Index – Volume 2		445
	<i>Michal Borkovec</i>		Index – Volume 1		455
			Cumulative Index		467

Contents – Volume 1

Contributors List	ix	CHAPTER 7 Surface Chemistry of Paper	123
Foreword <i>Brian Vincent</i>	xiii	<i>Fredrik Tiberg, John Daicic and Johan Fröberg</i>	
Preface	xv	CHAPTER 8 Surface Chemistry in the Polymerization of Emulsion	175
PART 1 Surface Chemistry in Important Technologies	1	<i>Klaus Tauer</i>	
CHAPTER 1 Surface Chemistry in Pharmacy	3	CHAPTER 9 Colloidal Processing of Ceramics	201
<i>Martin Malmsten</i>		<i>Lennart Bergström</i>	
CHAPTER 2 Surface Chemistry in Food and Feed	39	CHAPTER 10 Surface Chemistry in Dispersion, Flocculation and Flotation	219
<i>Björn Bergenståhl</i>		<i>Brij M. Moudgil, Pankaj K. Singh and Joshua J. Adler</i>	
CHAPTER 3 Surface Chemistry in Detergency	53	CHAPTER 11 Surface Chemistry in the Petroleum Industry	251
<i>Wolfgang von Rybinski</i>		<i>James R. Kanicky, Juan-Carlos Lopez-Montilla, Samir Pandey and Dinesh O. Shah</i>	
CHAPTER 4 Surface Chemistry in Agriculture	73	PART 2 Surfactants	269
<i>Tharwat F. Tadros</i>		CHAPTER 12 Anionic Surfactants	271
CHAPTER 5 Surface and Colloid Chemistry in Photographic Technology	85	<i>Antje Schmalstieg and Guenther W. Wasow</i>	
<i>John Texter</i>		CHAPTER 13 Nonionic Surfactants	293
CHAPTER 6 Surface Chemistry in Paints	105	<i>Michael F. Cox</i>	
<i>Krister Holmberg</i>		CHAPTER 14 Cationic Surfactants	309
		<i>Dale S. Steichen</i>	

CHAPTER 15	Zwitterionic and Amphoteric Surfactants	349	CHAPTER 20	Surfactant–Polymer Systems	445
	<i>David T. Floyd, Christoph Schunicht and Burghard Gruening</i>			<i>Björn Lindman</i>	
CHAPTER 16	Polymeric Surfactants	373	CHAPTER 21	Surfactant Liquid Crystals . . .	465
	<i>Tharwat F. Tadros</i>			<i>Syed Hassan, William Rowe and Gordon J. T. Tiddy</i>	
CHAPTER 17	Speciality Surfactants	385	CHAPTER 22	Environmental Aspects of Surfactants	509
	<i>Krister Holmberg</i>			<i>Lothar Huber and Lutz Nitschke</i>	
CHAPTER 18	Hydrotropes	407	CHAPTER 23	Molecular Dynamics Computer Simulations of Surfactants . . .	537
	<i>Anna Matero</i>			<i>Hubert Kuhn and Heinz Rehage</i>	
CHAPTER 19	Physico-Chemical Properties of Surfactants	421			
	<i>Björn Lindman</i>				