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Dishwashing Formulations and the Physico-Chemical Processes They Facilitate; 1. Introduction; 2. Evolution of the field
 3. Hand dishwashing vs machine dishwashing4. Components; 5. Additives; 6. Market progressions; 7. Ingredients and functionalities of mainwash products; overview; 8. Summary/future; 9. Where to next?; References; Chapter C.1 Personal Cleansing; 1. Introduction; 2. Anatomy of a skin cleanser; 3. Commonly used surfactants in cleansing; 4. Other elements of a skin cleanser; 5. Effects of cleansing on skin structure and function; 6. Effect of surfactants on SC; 7. Technology of mild cleansing; 8. Minimizing surfactant protein damage; 9. Minimizing surfactant lipid damage
 10. Compensating for damage: enhancing moisturization11. Summary; References; Chapter C.2 Shampoo Formulation; 1. Anionic surfactants; 2. Amphoteric surfactants; 3. Pseudoamphoteric surfactants; 4. Nonionics; 5. Cationic materials and ""other"" conditioning agents; 6. Thickening shampoos; 7. Shampoo additives; 8. Other additives; 9. Fragrance and color; 10. Shampoo evaluation; 11. Shampoo formulations; Chapter C.3 Surfactant Action on Skin and Hair: Cleansing and Skin Reactivity Mechanisms; 1. Introduction; 2. Surfactants in cleansing systems for skin and hair; 3. Cleaning mechanisms
 4. Efficacy of soil removal by cleansers5. Interactions of surfactants with skin - understanding and controlling irritation; References; Chapter C.4 The Cleaning of Teeth; 1. Introduction; 2. The human dentition and its environment; 3. Oral accumulations; 4. Oral care products; 5. Evaluation of oral care products; 6. Cleaning agents in oral care products; References; Chapter D.1 Dry Cleaning of Textiles; 1. Dry cleaning - definition; 2. Dry cleaning - history; 3. Dry cleaning - characteristics; 4. Dry cleaning - solvents; 5. Dry cleaning - detergents; 6. Dry cleaning - machines
 7. Dry cleaning - process technology

Sommario/riassunto

The focus of Handbook for Cleaning/Decontamination of Surfaces lies on cleaning and decontamination of surfaces and solid matter, hard as well as soft. Bringing together in a 2-volume reference source: - current knowledge of the physico-chemical fundamentals underlying the cleaning process; - the different needs for cleaning and how these needs are met by various types of cleaning processes and cleaning agents, including novel approaches; - how to test that cleaning has taken place and to what extent; - the effects of cleaning on the environment; - future trends