

Specialist Surfactants

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surfactants are vital components in biological systems are key ingredients in many formulated products and play an important role in many industrial processes the property which makes surfactants so useful is their ability to stabilize complex colloidal and interfacial systems it is not surprising therefore that many new surfactant materials are developed many of which have novel properties however because their potential is not fully appreciated they remain underutilized by industry the main purpose of this book is to illustrate the utility of a range of novel surfactants in particular those which have been found useful in specific areas and which seem to offer promise across a wider range of applications the contributors are drawn from industry and academic research and provide a comprehensive account of the preparation properties and applications of these specialist surfactants research chemists in industry and academia will find this book a concise and authoritative account of this important group of surfactants

a solid introduction to the field of surfactant science this new edition provides updated information about surfactant uses structures and preparation as well as seven new chapters expanding on technology applications offers a comprehensive introduction and reference of the science and technology of surface active materials elaborates more fully than prior editions aspects of surfactant crystal structure as well as their effects on applications adds more information on new classes and applications of natural surfactants in light of environmental consequences of surfactant use

an introduction to the state of the art of the diverse self assembly systems self assembly from surfactants to nanoparticles provides an effective entry for new researchers into this exciting field while also giving the state of the art assessment of

the diverse self assembling systems for those already engaged in this research over the last twenty years self assembly has emerged as a distinct science technology field going well beyond the classical surfactant and block copolymer molecules and encompassing much larger and complex molecular biomolecular and nanoparticle systems within its ten chapters each contributed by pioneers of the respective research topics the book discusses the fundamental physical chemical principles that govern the formation and properties of self assembled systems describes important experimental techniques to characterize the properties of self assembled systems particularly the nature of molecular organization and structure at the nano meso or micro scales provides the first exhaustive accounting of self assembly derived from various kinds of biomolecules including peptides dna and proteins outlines methods of synthesis and functionalization of self assembled nanoparticles and the further self assembly of the nanoparticles into one two or three dimensional materials explores numerous potential applications of self assembled structures including nanomedicine applications of drug delivery imaging molecular diagnostics and theranostics and design of materials to specification such as smart responsive materials and self healing materials highlights the unifying as well as contrasting features of self assembly as we move from surfactant molecules to nanoparticles written for students and academic and industrial scientists and engineers by pioneers of the research field self assembly from surfactants to nanoparticles is a comprehensive resource on diverse self assembly systems that is simultaneously introductory as well as the state of the art

volume 40 of carbohydrate chemistry chemical and biological approaches demonstrates the importance of the glycosciences for innovation and societal progress carbohydrates are molecules with essential roles in biology and also serve as renewable resources for the generation of new chemicals and materials honouring professor andré lubineau s memory this volume resembles a special collection of contributions in the fields of green and low carbon chemistry innovative synthetic methodology and design of carbohydrate architectures for medicinal and biological chemistry green methodology is illustrated by accounts on the industrial development of water promoted reactions c glycosylation cycloadditions and the design of green processes and synthons towards sugar based surfactants and materials the especially challenging transformations at the anomeric center are presented in several contributions on glycosylation methodologies using iron or gold catalysis electrochemical or enzymatic thio glycosylation exo glycal chemistry and bioengineering of carbohydrate synthases then synthesis and structure of multivalent and supramolecular oligosaccharide architectures are discussed and related to their physical properties and application potential e g for deepening our understanding of biological processes such as enzymatic pathways or bacterial adhesion and design of antibacterial antifungal and innovative anticancer vaccines or drugs

this volume seeks to advance cost effective methods using newly developed surfactants it summarizes data from physical chemical surface detergency cleaning toxicity and environmental sources for designing new formulations of classic organic head tail surfactants in response to increased environmental toxicity safety and performance demands

a general introduction to surfactants surface activity and surfactant applications important advances in the tools available for studying the activity of surfactants has significantly increased scientific understanding of interfaces at the molecular level however there is still much to be learned in this third edition of the successful classic author and expert drew myers combines the latest information available in the field of surfactants with his original accessible text on the subject now fully updated to reflect recent developments in working with surfactants in both model and practical systems the third edition of surfactant science and technology provides a solid introduction to the field of surfactant science written especially for beginners and nonspecialists who would like a practical but not necessarily comprehensive knowledge of the field this clear cogent text conveys the most fundamental and useful concepts of surfactant action and application new chapters bring readers up to date on current biological and medical applications of surfactants as well as applications in food science cosmetics and other areas in addition to new chapters surfactant science and technology includes illustrative problems at the end of each chapter these problems explain concepts discussed and stimulate imaginative solutions on the part of the reader a helpful bibliography of supplementary resources for readers who desire more detail has also been included surfactant science and technology third edition is an invaluable resource for surface and polymer chemists chemical and industrial engineers and a wide range of chemistry students

while currently available titles either focus on the basics or on very specific subtopics this text meets the need for a comprehensive survey of surfactants and their properties with a strong emphasis on applications and their correlation to the fundamentals the author covers their classification physical properties phase behavior adsorption effects such as wetting spreading and adhesion as well as industrial applications in personal care and cosmetics pharmaceuticals agrochemicals and food products professor tadros is a well known expert on the topic of surfactants with much experience in colloid science here he uses his industrial experience to close the gap between fundamentals of surfactants and their relevance and applications in practice

design and selection of performance surfactants is the resource for clear informative in depth reviews of the most topical areas of surfactant science and technology this is the second volume in an annual series already recognized as an essential resource for major developments in the field topics in this volume include spontaneous polymerization in organized micellar media the catalytic and kinetic effects in ethoxylation processes narrow and secondary alcohol ethoxylates plus the latest advances in fluorsurfactants and carbohydrate derived surfactants further readings cover the cutting edge microbial and enzymatic production of biosurfactants advances in the computer modeling of surfactants international contributors detail the latest applications in oil drilling floor polishes and food emulsification science and industry are constantly refining research and finding new applications for surface chemical technology reading design and selection of performance surfactants is the most efficient and accessible way for chemists researchers and manufacturers to stay abreast of the latest developments

holberg materials and surface chemistry chalmers u of technology sweden presents

updated versions of the first edition's eleven chapters and includes six new chapters mostly dealing with the concept of natural surfactants each chapter deals with a particular class of surfactant and is present

in the tradition of the popular first edition analysis of surfactants second edition offers a comprehensive and practical account of analysis methods for determining and understanding commercially important surfactants individually and in compounds combining a complete review of the literature with a variety of evaluation procedures and the specifications for commercial products this useful reference explores the key stages and latest developments for surfactant applications this edition has been thoroughly expanded and features new sections on capillary electrophoresis ether carboxylates and ester quats it is also more globally accessible with foreign language citations and SI units containing over 2400 references drawings tables and equations analysis of surfactants second edition is an recommended reference for physical surface colloid and oil chemists analytical research and quality assurance chemists working in the soap and detergent pharmaceuticals and cosmetic industries regulatory and food scientists and upper level undergraduate and graduate students in these disciplines

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