

Chemical Engineering Methods and Technology Series

Non-Ionic Surfactants

Pierce L. Wendt
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Editors

NOVA

Non Ionic Surfactants Chemical Engineering Methods And Technology

Wioletta Podgórska



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Non-Ionic Surfactants Pierce L. Wendt, 2014-05-14 **Chemical Engineering and Chemical Process Technology -**

Volume VII Ryzhard Pohorecki, John Bridgwater, M. Molzahn. Rafiqul Gani and Crispulo Gallegos, 2010-11-30 Chemical Engineering and Chemical Process Technology is a theme component of Encyclopedia of Chemical Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty Encyclopedias Chemical engineering is a branch of engineering dealing with processes in which materials undergo changes in their physical or chemical state These changes may concern size energy content composition and or other application properties Chemical engineering deals with many processes belonging to chemical industry or related industries petrochemical metallurgical food pharmaceutical fine chemicals coatings and colors renewable raw materials biotechnological etc and finds application in manufacturing of such products as acids alkalis salts fuels fertilizers crop protection agents ceramics glass paper colors dyestuffs plastics cosmetics vitamins and many others It also plays significant role in environmental protection biotechnology nanotechnology energy production and sustainable economical development The Theme on Chemical Engineering and Chemical Process Technology deals in five volumes and covers several topics such as Fundamentals of Chemical Engineering Unit Operations Fluids Unit Operations Solids Chemical Reaction Engineering Process Development Modeling Optimization and Control Process Management The Future of Chemical Engineering Chemical Engineering Education Main Products which are then expanded into multiple subtopics each as a chapter These five volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs **Electrochemical**

Remediation Technologies for Polluted Soils, Sediments and Groundwater Krishna R. Reddy, Claudio Cameselle, 2009-08-04 An unmatched reference on electrochemical technologies for soil sediment and groundwater pollution remediation Electrochemical technologies are emerging as important approaches for effective and efficient pollution remediation both on their own and in concert with other remediation techniques Electrochemical Remediation Technologies for Polluted Soils Sediments and Groundwater provides a systematic and clear explanation of fundamentals field applications as well as opportunities and challenges in developing and implementing electrochemical remediation technologies Written by leading authorities in their various areas the text summarizes the latest research and offers case studies that illustrate equipment installation and methods employed in real world remediations Divided into nine sections the coverage includes Introduction and fundamental principles Remediation of heavy metals and other inorganic pollutants Remediation of organic pollutants Remediation of mixed contaminants Electrokinetic barriers Integrated coupled technologies Mathematical modeling Economic and regulatory considerations Field applications and performance assessment Unique as a comprehensive reference on the subject Electrochemical Remediation Technologies for Polluted Soils Sediments and

Groundwater will serve as a valuable resource to all environmental engineers scientists regulators and policymakers

Multiphase Particulate Systems in Turbulent Flows Wioletta Podgórska,2019-09-17 Multiphase Particulate Systems in Turbulent Flows Fluid Liquid and Solid Liquid Dispersions provides methods necessary to analyze complex particulate systems and related phenomena including physical chemical and mathematical description of fundamental processes influencing crystal size and shape suspension rheology interfacial area of drops and bubbles in extractors and bubble columns Examples of mathematical model formulation for different processes taking place in such systems is shown Discussing connections between turbulent mixing mechanisms and precipitation it discusses influence of fine scale structure of turbulence including its intermittent character on breakage of drops bubbles cells plant cell aggregates An important aspect of the mathematical modeling presented in the book is multi fractal taking into account the influence of internal intermittency on different phenomena Key Features Provides detailed descriptions of dispersion processes in turbulent flow interactions between dispersed entities and continuous phase in a single volume Includes simulation models and validation experiments for liquid liquid gas liquid and solid liquid dispersions in turbulent flows Helps reader learn formulation of mathematical models of breakage or aggregation processes using multifractal theory Explains how to solve different forms of population balance equations Presents a combination of theoretical and engineering approaches to particulate systems along with discussion of related diversity with exercises and case studies

Ionic Liquid-Based Technologies for Environmental Sustainability Mohammad Jawaid,Akil Ahmad,A. Vijaya Bhaskar Reddy,2021-12-04 Ionic Liquid based Technologies for Environmental Sustainability explores the range of sustainable and green applications of IL materials achieved in recent years such as gas solubility biomass pre treatment bio catalysis energy storage gas separation and purification technologies The book also provides a reference material for future research in IL based technologies for environmental and energy applications which are much in demand due to sustainable reusable and eco friendly methods for highly innovative and applied materials Written by eminent scholars and leading experts from around the world the book aims to cover the synthesis and characterization of broad range of ionic liquids and their sustainable applications Chapters provide cutting edge research with state of the art developments including the use of IL based materials for the removal of pharmaceuticals dyes and value added metals Describes the fundamentals and major applications of ionic liquid materials Covers up to date developments in novel applications of IL materials Provides practical tips to aid researchers who work on ionic liquid applications

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27th European Symposium on Computer Aided Process Engineering, 2017-09-21 27th European Symposium on Computer Aided Process Engineering Volume 40 contains the papers presented at the 27th European Society of Computer Aided Process Engineering ESCAPE event held in Barcelona October 1-5 2017 It is a valuable resource for chemical engineers chemical process engineers researchers in industry and academia students and consultants for chemical industries Presents findings and discussions from the 27th European Society of Computer Aided Process Engineering ESCAPE event

Sustainable Development in Chemical Engineering Vincenzo Piemonte, Marcello De Falco, Angelo Basile, 2013-05-28 Sustainable development is an area that has world wide appeal from developed industrialized countries to the developing world Development of innovative technologies to achieve sustainability is being addressed by many European countries the USA and also China and India The need for chemical processes to be safe compact flexible energy efficient and environmentally benign and conducive to the rapid commercialization of new products poses new challenges for chemical engineers This book examines the newest technologies for sustainable development in chemical engineering through careful analysis of the technical aspects and discussion of the possible fields of industrial development The book is broad in its coverage and is divided into four sections Energy Production covering renewable energies innovative solar technologies cogeneration plants and smart grids Process Intensification describing why it is important in the chemical and petrochemical industry the engineering approach and nanoparticles as a smart technology for bioremediation Bio based Platform Chemicals including the production of bioethanol and biodiesel bioplastics production and biodegradability and biosurfactants Soil and Water Remediation covering water management and re use and soil remediation technologies Throughout the book there are case studies and examples of industrial processes in practice

Process and Chemical Engineering, 2002

Surfactants in Solution K.L. Mittal, D.O. Shah, 2013-03-08 This volume chronicles the proceedings of the 8th International Symposium on Surfactants in Solution SIS held in Gainesville FL June 10-15 1990 This series of symposia have been smoothly running since 1976 but the appellation Surfactants in Solution was used for the first time in 1982 in Lund Since then our logo SIS has become very familiar to everyone involved in surfactants In Lund the meeting was billed as the Fourth International Symposium on Surfactants in Solution Earlier three events were held under different rubrics but proceedings of all these symposia except the 7th SIS held in Ottawa in 1988 have been properly documented As a matter of fact so far 10 volumes have appeared under the title Surfactants in Solution 1 2 3 The program for the 9th SIS was

very comprehensive and many ramifications of surfactants were covered and it was a veritable international event It contained a total of 384 papers by 869 authors from practically every corner of our planet Just the sheer number of papers is a testimonial to the high tempo of research and tremendous interest in this wonderful class of materials As in the past there were plenary lectures 5 invited talks 37 oral presentations 195 and poster presentations 147 The plenary lectures were given by Prof J Th G Overbeek Prof C A Bunton Prof H Ti Tien and Dr J Swalen The lecture by Prof Overbeek the doyen of surface and colloid science was a real treat

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