

Sulphonation Technology In The Detergent Industry

Encyclopedia of Chemical Technology: Sugar to thin films Raymond Eller Kirk 1991 This work contains a library of information for the chemical industry. The 4th edition has undergone a complete revision, with the inclusion of many new subjects which reflect the growth in chemical technology through the 1990s.

Sulphonation Technology in the Detergent Industry W. Herman de Groot 2013-03-14 This book is about Sulph(on)ation Technology in its technical entirety, aiming at superiority in final product quality, raw material utilisation, sustained plant reliability and safety, minimisation of liquid effluent and gaseous emissions; it is about the total quality of the operation. It will be of value to engineers and chemists who are, or will be, involved in the practical daily operation of sulphonation plants or R&D activities. The book can also be used as a tool for the teacher in preparing final year projects in a chemical engineering curriculum. The book covers sulphonation of alkylbenzenes, primary alcohols, alcohol ethers, alpha-olefins and fatty acid methyl esters, with a strong emphasis on the sulphur-based S₂O₈²⁻/air sulphonation technology. The first part deals with raw material specifications, hazards, storage, handling and physical properties. In the following section the process chemistry is discussed, indicating main chemical reactions, undesired parallel and consecutive reactions, exothermal heat effects and all other process chemistry data that are relevant for process selection and equipment design. The section about the actual process equipment from the various plant equipment suppliers (Ballestra, Chemithon, Mazzoni, Meccaniche Modeme and Lion Corp.) takes into account the chemical reaction engineering aspects derived from the sulphonation technology processing chemistry. Product quality, product storage and handling, product safety and physical properties are the contents of the next section. The effluent handling and exhaust gas treatment of the SO₂/air sulphonation technology are further discussed in detail.

Chemical Industry News 1979

Advanced Composites Technologies Society for the Advancement of Material and Process Engineering 1993

Advances in Chemical Engineering Zeeshan Nawaz 2012-03-23 Chemical engineering applications have been a source of challenging optimization problems in terms of economics and technology. The goal of this book is to enable the reader to get instant information on fundamentals and advancements in chemical engineering. This book addresses ongoing evolutions of chemical engineering and provides overview to the state of the art advancements. Molecular perspective is increasingly important in the refinement of kinetic and thermodynamic modeling. As a result, much of the material was revised on industrial problems and their sophisticated solutions from known scientists around the world. These issues were divided into two sections, fundamental advances and catalysis and reaction engineering. A distinct feature of this text continues to be the emphasis on molecular chemistry, reaction engineering and modeling to achieve rational and robust industrial design. Our perspective is that this background must be made available to undergraduate, graduate and professionals in an integrated manner.

Handbook of Detergents - 6 Volume Set Uri Zoller 2008-11-23 With contributions from experts and pioneers, this set provides readers with the tools they need to answer the need for sustainable development faced by the industry. The six volumes constitute a shift from the traditional, mostly theoretical focus of most resources to the practical application of advances in research and development. With con

Powdered Detergents Michael Showell 2017-10-06 Facilitating the development of important processes that yield increased detergency performance from smaller dosages, this work examines up-to-date and emerging process and chemical technologies used in the formulation of compact powdered detergents. It provides a survey of technological developments fundamental to powder compaction, such as the replacement of traditional phosphate builders and the introduction of insoluble zeolites as particle process aids.

Second World Conference on Detergents A. R. Baldwin 1987

Handbook of Detergents, Part F Uri Zoller 2008-11-20 This sixth part of the multi-volume Handbook of

Detergents focuses on the production of surfactants, builders and other key components of detergent formulations, including the various multi-dimensional aspects and implications on detergent formulations and applications domestically, institutionally, in industry and agriculture, with all the environmental consequences involved. Thus, Part F constitutes a comprehensive treatise of the multi-dimensional issues relating to this industry production technology, emphasizing the alignment of scientific knowledge and up-to-date technological and technical know-how with the relevant contemporary applied practice. An international effort and industry-academia collaboration, this volume features expert contributions, focusing on the contemporary state-of-the-art concerning the many facets of the production of detergents and surfactants. Thus, the Handbook of Detergents, Part F - Production, deals with the production of anionic, cationic, nonionic, and amphoteric surfactants, key builders, bleaching and whitening agents, enzymes and other components of detergent formulations in different contexts, gauges and related concerns, and discusses various technological procedures of production processes involving the components of surfactants and detergents.

American Book Publishing Record 1991

The Cumulative Book Index 1992 A world list of books in the English language.

International Books in Print 1997

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Macromolecular Chemistry and Physics 2004

Kirk-Othmer Encyclopedia of Chemical Technology, Volume 23 Kirk-Othmer 2006-11-10 The fifth edition of the Kirk-Othmer Encyclopedia of Chemical Technology builds upon the solid foundation of the previous editions, which have proven to be a mainstay for chemists, biochemists, and engineers at academic, industrial, and government institutions since publication of the first edition in 1949. The new edition includes necessary adjustments and modernization of the content to reflect changes and developments in chemical technology.

Hydrocarbon Processing 1981-10

Fatty Acids: Industry, Technology and Research in India 1966

Subject Guide to Books in Print 1993

Industrial Arene Chemistry Jacques Mortier 2023-03-17 Industrial Arene Chemistry Explore the wide array of uses for aromatic hydrocarbons in this comprehensive reference Aromatics are a class of compounds—normally but not exclusively organic—which tend to be produced as by-products of various industrial processes. Their importance as petrochemical materials in themselves, along with the range of inter-relations between different aromatic chemicals, creates a complex and opportunity-filled market for aromatics. Industrial Arene Chemistry provides a thorough look at the conventional techniques required to use and produce these aromatic hydrocarbons. Beginning with an overview of the global aromatic market—including, but not limited to, manufacturers, markets of BTX, and downstream functional aromatics, aromatics derived from renewable sources, and economic forecasts—the book will also explore the impact shifting environmental factors will have on the future of aromatic chemistry. The text further explores BTX production processes differentiated according to the raw materials used. Importantly, this will establish the importance and growth of the biobased chemical industry. Industrial Arene Chemistry readers will also find: Case studies that describe major elements of specific technologies prototyped by contributors/companies as part of ongoing market development efforts Process chapters that include summaries of the conventional techniques and a more detailed discussion of recent high-impact studies Recent advances in conventional aromatic reactions, including alkylation, acylation and carboxylation, hydrogenation/reduction, oxidation, nitration/amination, sulfonation, and halogenation Industrial Arene Chemistry is a useful reference for chemists and chemical engineers who work with aromatics.

The Manufacture of Soaps, Other Detergents, and Glycerine Edgar Woollatt 1985

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