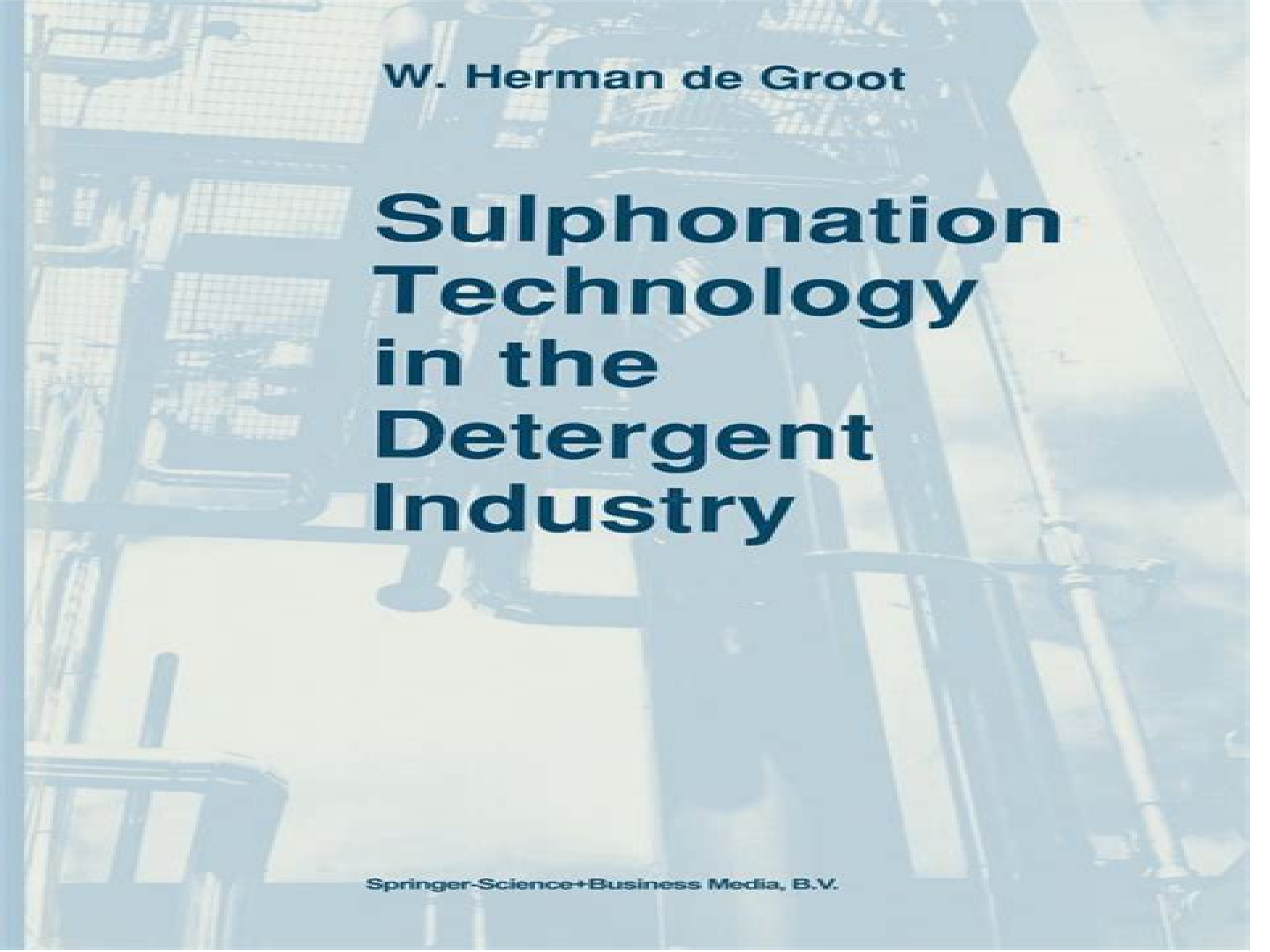




W. Herman de Groot

Sulphonation Technology in the Detergent Industry

Springer-Science+Business Media, B.V.

Sulphonation Technology In The Detergent Industry

Jacques Mortier



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Sulphonation Technology in the Detergent Industry W. Herman de Groot, 2013-03-14 This book is about Sulphonation 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 SO₂ 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

Handbook of Detergents, Part F Uri Zoller, Paul Sosis, 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

Powdered Detergents Michael Showell, 2017-10-06 Facilitating the development of important processes that yield increased detergative 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 **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 Advances in Sulphonation Techniques Navin G. Ashar,2015-10-10 This book presents a complete in depth analysis for on the impact of liquid sulfur dioxide and liquid sulfur trioxide to carry out complex and difficult sulfonations as well as manufacture of sulfuric acid with a CAPEX requirement of less than half an area requirement less than one third and no emission of sulfur dioxide The processes described in this volume represents an innovative approach relevant to the current manufacturing processes of sulfuric acid sulfamic acid para toluene sulfonic acid and other sulfonated product

Advances in Chemical Engineering Zeeshan Nawaz,Shahid Naveed,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 in to 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 *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 **Handbook for Chemical Process Industries** Himanshu J Patel,2023-10-06 Chemical processing industry plays a pivotal role in the economy of a country as chemicals are required in every sphere of our lives This book covers chemical processing of dyes pigments drugs and pharmaceutical products fermented products agrochemicals explosives polymers Period II and III chemicals chemicals sugar coatings starches soaps and detergents paper pulp glass and cement It includes sources of natural materials collection process purification and extraction of different chemicals from natural materials like petroleum coal and ores from the Earth It includes manufacturing details of C1 to C4 and aromatic compounds obtained from natural materials The book covers both traditional and modern sectors of the chemical processing industry It provides knowledge on the properties of the chemical and manufacturing process such as raw materials chemical reactions quantitative requirement flow sheet diagram procedure and its uses The book is based on the author s expertise and has been developed with an awareness of the quantitative requirement for manufacturing chemicals Data has been collected from industry thus it will be useful to industry personnel research groups academicians and institutional organizations **Proceedings of the World Conference on Palm and Coconut Oils for the 21st**

Century Edward C. Leonard,Edward George Perkins,Arno Cahn,1999 This book covers a wide range of food and oleochemical applications of palm and coconut oils The presentations were part of the World Conference on Palm and Coconut Oils for the 21st Century held in Bali and reflect the changes in the oleochemical industry during the past decade

A Practical Guide to the Manufacture of Sulfuric Acid, Oleums, and Sulfonating Agents Navin G. Ashar,Kiran R. Golwalkar,2013-11-23 This critical volume provides practical insights on sulfuric acid and related plant design and on techniques to improve and enhance substantially the efficiency of an existing plant by means of small modifications The book provides readers with a better understanding of the state of art in sulfuric acid manufacture as well as importantly in the manufacture of value added products based on sulfur that are also associated with the manufacture of sulfuric acid Overall engineers and plant managers will be introduced to technologies for making their sulfuric acid enterprises more productive remunerative and environmentally friendly A Practical Guide to the Manufacture of Sulfuric Acid Oleums and Sulfonating Agents covers sulfuric acid and derivative chemical plant details from the nuts and bolts level to a holistic perspective based on actual field experience The book is indispensable to anyone involved in implementing a sulfuric acid or related chemical plant

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