



W. Herman de Groot

# **Sulphonation Technology in the Detergent Industry**

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# Sulphonation Technology In The Detergent Industry

**Himanshu J Patel**



## **Sulphonation Technology In The Detergent Industry:**

**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 SO<sub>2</sub> 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 SO<sub>2</sub> air sulphonation technology are further discussed in detail

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processes involving the components of surfactants and detergents 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

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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

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