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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

Chemical Engineering Morton Denn, 2011-09-30 Chemical engineering is the field of applied science that employs physical chemical and biological rate processes for the betterment of humanity This opening sentence of Chapter 1 has been the underlying paradigm of chemical engineering Chemical Engineering An Introduction is designed to enable the student to explore the activities in which a modern chemical engineer is involved by focusing on mass and energy balances in liquid phase processes Problems explored include the design of a feedback level controller membrane separation hemodialysis optimal design of a process with chemical reaction and separation washout in a bioreactor kinetic and mass transfer limits in a two phase reactor and the use of the membrane reactor to overcome equilibrium limits on conversion Mathematics is employed as a language at the most elementary level Professor Morton M Denn incorporates design meaningfully the design and analysis problems are realistic in format and scope

Process Modeling, Simulation, and Environmental Applications in Chemical Engineering Bharat A. Bhanvase, Rajendra P. Ugwekar, 2016-10-14 In this valuable volume new and original research on various topics on chemical engineering and technology is presented on modeling and simulation material synthesis wastewater treatment analytical techniques and microreactors The research presented here can be applied to technology in food paper and pulp polymers petrochemicals surface coatings oil technology aspects among other uses The book is divided into five sections modeling and simulation environmental applications materials and applications processes and applications analytical methods Topics include modeling and simulation of chemical processes process integration and intensification separation processes advances in unit operations and processes chemical reaction engineering fuel and energy advanced materials CFD and transport processes wastewater treatment The valuable research presented here will be of interest to researchers scientists industry practitioners as well as upper level students

Comprehensive Energy Systems Ibrahim Dincer, 2018-02-07 Comprehensive Energy Systems Seven Volume Set provides a unified source of information covering the entire spectrum of energy one of the most significant issues humanity has to face This comprehensive book describes traditional and novel energy systems from single generation to multi generation also covering theory and applications In addition it also presents high level coverage on

energy policies strategies environmental impacts and sustainable development No other published work covers such breadth of topics in similar depth High level sections include Energy Fundamentals Energy Materials Energy Production Energy Conversion and Energy Management Offers the most comprehensive resource available on the topic of energy systems Presents an authoritative resource authored and edited by leading experts in the field Consolidates information currently scattered in publications from different research fields engineering as well as physics chemistry environmental sciences and economics thus ensuring a common standard and language

Catalytic Ammonia Synthesis J.R. Jennings, 2013-06-29 The phenomenon of catalysis is found in many homogeneous and heterogeneous systems undergoing chemical change where it effects the rates of approach to the equilibrium state in processes as diverse as those found in the stars the earth's mantle living organisms and the various chemistries utilized by industry The economies and the living standards of both developed and developing countries depend to varying degrees upon the efficacy of their chemical industries Consequently this century has seen a wide exploration and expansion of catalytic chemistry together with an intensive investigation of specific essential processes like those contributing to life supporting agricultures Prime among the latter must surely be the fixation of atmospheric nitrogen by catalytic hydrogenation to anhydrous ammonia still the preferred synthetic precursor of the nitrogenous components of fertilizers In each decade contemporary concepts and techniques have been used to further the understanding as yet incomplete of the catalyst the adsorbates the surface reactions and the technology of large scale operation The contributors to the present volume review the state of the art the science and the technology they reveal existing lacunae and suggest ways forward Around the turn of the century Sabatier's school was extending the descriptive catalytic chemistry of hydrogenation by metals to include almost all types of multiple bond The triple bond of dinitrogen which continued to be more resistant than the somewhat similar bonds in carbon monoxide and ethyne defied their efforts

Chemical Engineering Design and Analysis T. Michael Duncan, Jeffrey A. Reimer, 1998-08-28 Students taking their first chemical engineering course plunge into the nuts and bolts of mass and energy balances and often miss the broad view of what chemical engineers do This 1998 text offers a well paced introduction to chemical engineering Students are first introduced to the fundamental steps in design and three methods of analysis mathematical modeling graphical methods and dimensional analysis The book then describes how to apply engineering skills such as how to simplify calculations through assumptions and approximations how to verify calculations significant figures spreadsheets graphing standard semi log and log log and how to use data maps In addition the book teaches engineering skills through the design and analysis of chemical processes and process units in order to assess product quality economics safety and environmental impact This text will help undergraduate students in chemical engineering develop engineering skills early in their studies Lecturer's solution manual available from the publisher on request

Handbook of Petrochemical Processes James G. Speight, 2019-06-13 The petrochemical industry is a scientific and engineering field that encompasses the production of a wide range of chemicals

and polymers The purpose of this book is not only to provide a follow on to form the later chapters of the highly successful Chemistry and Technology of Petroleum 5th Edition but also provides a simplified approach to a very diverse chemical subject dealing with the chemistry and technology of various petroleum and petrochemical process Following from the introductory chapters this book provides the readers with a valuable source of information containing insights into petrochemical reactions and products process technology and polymer synthesis Provides readers with a valuable source of information containing insights into petrochemical reactions and products process technology and polymer synthesis Introduces the reader to the various petrochemical intermediates are generally produced by chemical conversion of primary petrochemicals to form more complicated derivative products The reactions and processes involved in transforming petroleum based hydrocarbons into the chemicals that form the basis of the multi billion dollar petrochemical industry are reviewed and described The book includes information on new process developments for the production of raw materials and intermediates for petrochemicals Includes a description of the origin of the raw materials for the petrochemicals industry including an overview of the coal chemicals industry Introduction to Industrial Minerals D.A.C. Manning,2012-12-06 Introduction to Industrial Minerals introduces the reader to the subject of the new mineral raw materials that our society demands It emphasizes the way in which in order to satisfy the consumer the requirements of industry control mineral exploitation and the way fundamental mineral properties are exploited for particular applications It describes aggregates industrial clays and raw materials for the chemical industry The need for high temperature processing is addressed with a chapter on interpretation and use of mineralogical phase diagrams and time temperature transformation diagrams These are then applied in separate chapters on the manufacture of glass cement brick clays and refractories Evaluation of geological reserves is described in the context of computer modelling of deposit quality and the final chapter considers the use of a site after extraction emphasizing the requirements for waste disposal *Material Balances for Chemical Reacting Systems* R.L. Cerro,B.G. Higgins,S. Whitaker,2022-12-05 Written for use in the first course of a typical chemical engineering program Material Balances for Chemical Reacting Systems introduces and teaches students a rigorous approach to solving the types of macroscopic balance problems they will encounter as chemical engineers This first course is generally taken after students have completed their studies of calculus and vector analysis and these subjects are employed throughout this text Since courses on ordinary differential equations and linear algebra are often taken simultaneously with the first chemical engineering course these subjects are introduced as needed Teaches readers the fundamental concepts associated with macroscopic balance analysis of multicomponent reacting systems Offers a novel and scientifically correct approach to handling chemical reactions Includes an introductory approach to chemical kinetics Features many worked out problems beginning with those that can be solved by hand and ending with those that benefit from the use of computer software This textbook is aimed at undergraduate chemical engineering students but can be used as a reference for graduate students and

professional chemical engineers as well as readers from environmental engineering and bioengineering The text features a solutions manual with detailed solutions for all problems as well as PowerPoint lecture slides available to adopting professors

CHEMICAL PROCESS TECHNOLOGY AND SIMULATION KOYIKKAL, SRIKUMAR,2013-04-08 This book is designed to apprise the students of chemical engineering with a variety of different processes of chemical technologies The book is richly illustrated and covers the essential information with the help of flow diagrams enabling the students to gain a full understanding of both the fundamental concepts and chemical reactions involved in process technologies Newer technologies have been dealt with and some technologies which have lost their relevance have been omitted Computer simulation methods have been described for many important technologies In short the book considers computer design tools and design software in a manner that integrates this knowledge smoothly into the main subject The book is expected to become useful not only to the students for courses in Chemical Technology but also to practising engineers and process designers for innovative process development There are topics on natural products and fermentation process chemicals organic chemicals inorganic chemicals refinery operations oil and gas operations and nanotechnology products In some of these topics computer simulation and costing examples are included An illustration of modelling and simulation using C is also given as an example of user written programs for simulation Another method that can be used for simulation is the use of spreadsheets which is also described with the help of an example A new important topic of today being polysilicon used in the manufacture of computer chips and solar panels is also covered in detail Industrial Waste Treatment Nelson Leonard

Nemerow,2010-07-27 Taking the reader through the history of industrial waste treatment and directing them toward a new path of best practice Industrial Waste Treatment illustrates how current treatment techniques are affected by regulatory and economic constraints scientific knowledge and tolerances This book provides the reader with the basis for a more effective method of waste treatment which is sustainable and supportive of industrial improvements Overall it provides valuable information for planners industrial civil and environmental engineers and government officials for a better understanding of current practices and regulatory history and how these factors relate to the ability to complete environmental solutions to industrial waste problems Provides environmental history from a professional technical point of view as a basis for total solutions engineering Includes sustainable practice necessary for the 21st Century Thoroughly explores industry and environmental regulations over the past 150 years

Handbook of Industrial Chemistry and Biotechnology James A. Kent,Tilak V. Bommaraju,Scott D. Barnicki,2017-08-01 This widely respected and frequently consulted reference work provides a wealth of information and guidance on industrial chemistry and biotechnology Industries covered span the spectrum from salt and soda ash to advanced dyes chemistry the nuclear industry the rapidly evolving biotechnology industry and most recently electrochemical energy storage devices and fuel cell science and technology Other topics of surpassing interest to the world at large are covered in chapters on fertilizers and food production pesticide manufacture and use and

the principles of sustainable chemical practice referred to as green chemistry Finally considerable space and attention in the Handbook are devoted to the subjects of safety and emergency preparedness It is worth noting that virtually all of the chapters are written by individuals who are embedded in the industries whereof they write so knowledgeably

Management of Process Industry Waste Richard Bahu, Barry D. Crittenden, John O'Hara, 1997 Very Good No Highlights or Markup all pages are intact

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