



Sajjad Porgar

Slurry Bubble Column Reactor Design in Hydrodesulfurization Process

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Slurry Bubble Reactor Hydrodesulfurization Process:

Slurry Bubble Column Reactor Design in Hydrodesulfurization Process Sajjad Porgar, 2015-11-25 Hydrodesulfurization HDS is a catalytic chemical process that widely used to remove sulfur from refined petroleum products such as gasoline or petrol jet fuel kerosene diesel fuel and fuel oils The purpose of this process is removing the sulfur The hydrodesulfurization process takes place in a pseudo three phase fluidized bed slurry bubble column reactor with liquid and gas growing upwards This reactor presents a transient behavior for the catalytic effectiveness due to the obstruction of the catalyst pores caused mainly by parallel reactions of hydrodemetalization acting on the catalyst Eventually I thank my professors Dr Mohammad Kazemini and Amir Charkhi and Nejat Rahmaniyan and Mrs Leila Vafajoo Thanks to the efforts of my parents and my brother and I dedicated this book to my brother soul *Mathematical Modeling of Complex Reaction Systems in the Oil and Gas Industry* Jorge Ancheyta, Andrey Zagoruiko, Andrey Elyshev, 2024-07-25 Master the fundamentals of reaction systems modeling for the age of decarbonization Reactor design is one of the most important parts of the oil and gas industry with reactor processes and the accompanying technologies constantly evolving to meet industry needs A crucial component of effective reactor design is modelling complex reaction systems which can help predict commercial performance shape safety procedures and more At a time when decarbonization and clean energy transition are among the fundamental global technological challenges it has never been more important for engineers to grasp the cutting edge of reaction system modelling *Mathematical Modeling of Complex Reaction Systems in the Oil and Gas Industry* provides a systematic introduction to this timely subject Each chapter provides a step by step description of the kinetic and reactor models for a particular kind of process and its accompanying systems Backed by voluminous experimental data and incorporating extensive simulation results the book constitutes an indispensable contribution to the global search for clean energy solutions *Mathematical Modeling of Complex Reaction Systems in the Oil and Gas Industry* readers will also find All the required tools for developing new reactor models for different reaction scales Detailed discussion of topics including hydrocracking of heavy oils catalyst deactivation oxidative regeneration of catalysts and many more Extensive treatment of both steady state and dynamic simulations *Mathematical Modeling of Complex Reaction Systems in the Oil and Gas Industry* is ideal for chemical and process engineers computational chemists and modelers catalysis researchers and any other researchers or professionals in petrochemical engineering and the oil and gas industry **Multiphase Catalytic Reactors** Zeynep Ilse Önsan, Ahmet Kerim Avci, 2016-07-05 Provides a holistic approach to multiphase catalytic reactors from their modeling and design to their applications in industrial manufacturing of chemicals Covers theoretical aspects and examples of fixed bed fluidized bed trickle bed slurry monolith and microchannel reactors Includes chapters covering experimental techniques and practical guidelines for lab scale testing of multiphase reactors Includes mathematical content focused on design equations and empirical relationships characterizing different multiphase reactor types together with an assortment

of computational tools Involves detailed coverage of multiphase reactor applications such as Fischer Tropsch synthesis fuel processing for fuel cells hydrotreating of oil fractions and biofuels processing *High Pressure Process Technology: Fundamentals and Applications* A. Bertucco, G. Vetter, 2001-10-15 Clear evidence of increasing demands in the processing industry prompted the editors and authors to publish a new book about High Pressure Process Technology Fundamentals and Applications This book presents the latest knowledge regarding the high pressure processing aspects combined with that about the modeling the design and the operation of safe and reliable high pressure plants and equipment This treatment and selection of the subjects is stimulating and unique Consisting of nine chapters each subdivided into several sections the book addresses the high pressure aspects providing well selected correlated information connected with a comprehensive overview together with a large number of references The main body of the first eight chapters refers to subjects like high pressure in general the thermodynamics and kinetics of the fluids involved the design of high pressure equipment the modeling and design of reactors separation and fractionation units the safety aspects the control and economics In the extended last chapter examples of promising high pressure applications are explained such as chemical and enzymatic reactions in supercritical solvents hydrogenation under supercritical conditions supercritical water oxidation polymerization with metallocene catalysts supercritical extraction fractionation and precipitation supercritical pharma processing ultra high pressure sterilization and supercritical dry cleaning **Hydrotreating and Hydrocracking Processes in Refining**

Technology James G. Speight, 2023-09-29 Written by an industry expert with over 50 years of experience this book details the various solvent processes that are used in crude oil refineries Providing an in depth exploration of the different types of processes as well as the types of feedstocks that can be used with them this book prepares readers for changes as the industry evolves Key Features Describes feedstock evaluation and the effects of elemental chemical and fractional composition Contains an extensive glossary of all related concepts in hydrotreating and hydrocracking processes Considers next generation processes and developments This book is an essential guide for engineers scientists and students in the field of petroleum processing and refining technology including professionals technicians management personnel and academics

Chemical Reaction Engineering and Reactor Technology Tapio O. Salmi, Jyri-Pekka Mikkola, Johan P. Warna, 2011-07-01 The role of the chemical reactor is crucial for the industrial conversion of raw materials into products and numerous factors must be considered when selecting an appropriate and efficient chemical reactor Chemical Reaction Engineering and Reactor Technology defines the qualitative aspects that affect the selection of an industrial chemical reactor and couples various reactor models to case specific kinetic expressions for chemical processes Offering a systematic development of the chemical reaction engineering concept this volume explores Essential stoichiometric kinetic and thermodynamic terms needed in the analysis of chemical reactors Homogeneous and heterogeneous reactors Residence time distributions and non ideal flow conditions in industrial reactors Solutions of algebraic and ordinary differential equation systems Gas and liquid

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 Guidelines for laboratory reactors and the estimation of kinetic parameters The authors pay special attention to the exact
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 exercises and solutions covering a number of processes from oil refining to the development of specialty and fine chemicals
 the text provides a clear understanding of chemical reactor analysis and design Industrial Chemistry Library High
Pressure Process Technology Fundamentals and Applications Mr. Rohit Manglik,2023-06-23 Explores high pressure process
 technologies their fundamentals and applications in industrial chemistry for enhanced reaction efficiency **Ludwig's**
Applied Process Design for Chemical and Petrochemical Plants A. Kayode Coker,2014-11-29 The fourth edition of
 Ludwig s Applied Process Design for Chemical and Petrochemical Plants Volume Three is a core reference for chemical plant
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Petroleum Refining James G. Speight,2016-10-26 Petroleum refining involves refining crude petroleum as well as producing
 raw materials for the petrochemical industry This book covers current refinery processes and process types that are likely to
 come on stream during the next three to five decades The book includes 1 comparisons of conventional feedstocks with heavy
 oil tar sand bitumen and bio feedstocks 2 properties and refinability of the various feedstocks 3 thermal processes versus
 hydroprocesses and 4 the influence of refining on the environment **Concepts and Design of Chemical Reactors**
 Stephen Whitaker,Alberto E. Cassano,1986

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