

REFINERY PROCESS MODELING

A Practical Guide to Steady State Modeling
of Petroleum Processes

First Edition

Gerald L. Kaes

Refinery Process Modeling Hardcover

Sravya Suryadevara



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Refinery Engineering Ai-Fu Chang, Kiran Pashikanti, Y. A. Liu, 2013-03-01 A pioneering and comprehensive introduction to the complex subject of integrated refinery process simulation using many of the tools and techniques currently employed in modern refineries Adopting a systematic and practical approach the authors include the theory case studies and hands on workshops explaining how to work with real data As a result senior level undergraduate and graduate students as well as industrial engineers learn how to develop and use the latest computer models for the predictive modeling and optimization of integrated refinery processes Additional material is available online providing relevant spreadsheets and simulation files for all the models and examples presented in the book

Petroleum Refinery Process Modeling Y. A. Liu, Ai-Fu Chang, Kiran Pashikanti, 2018-02-14 A comprehensive review of the theory and practice of the simulation and optimization of the petroleum refining processes Petroleum Refinery Process Modeling offers a thorough review of how to quantitatively model key refinery reaction and fractionation processes The text introduces the basics of dealing with the thermodynamics and physical property predictions of hydrocarbon components in the context of process modeling The authors three experts on the topic outline the procedures and include the key data required for building reaction and fractionation models with commercial software The text shows how to filter through the extensive data available at the refinery and using plant data to begin calibrating available models and extend the models to include key fractionation sub models It provides a sound and informed basis to understand and exploit plant phenomena to improve yield consistency and performance In addition the authors offer information on applying models in an overall refinery context through refinery planning based on linear programming This important resource Offers the basic information of thermodynamics and physical property predictions of hydrocarbon components in the context of process modeling Uses the key concepts of fractionation lumps and physical properties to develop detailed models and workflows for atmospheric CDU and vacuum VDU distillation units Discusses modeling FCC catalytic reforming and hydroprocessing units Written for chemical engineers process engineers and engineers for measurement and control this resource explores the advanced simulation tools and techniques that are available to support experienced and aid new operators and engineers

Refinery Process Modeling Kaes Enterprises, Incorporated, 2002-09-01 *Refinery Process Modeling* Gerald L. Kaes, 2008 **CIM Bulletin** Canadian Institute of Mining, Metallurgy and Petroleum, 2004 Refinery Process Modeling with Multiple Crudes and Capacity Optimization Sravya Suryadevara, 2014 **Chemical Engineering Progress** ,1993 **Control Engineering** ,1969 Instrumentation and automatic control systems **Distillation** Marisa Mendes, 2017-06-28 The purpose of this book is to offer innovative applications of the distillation process The book is divided in two main sections one containing chapters that deal with process design and calculations and the other chapters that discuss distillation applications Moreover the chapters involve wide applications as in fruit spirits production in organic liquid compounds produced by oil and fats cracking energy

evaluation in distillation processes and applicability of solar membrane distillation I believe that this book will provide new ideas and possibilities of the development of innovative research lines for the readers *Refinery Process Modeling, Sample Problem One* Gerald L. Kaes, Kaes Enterprises, Incorporated, 2002-01-01

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