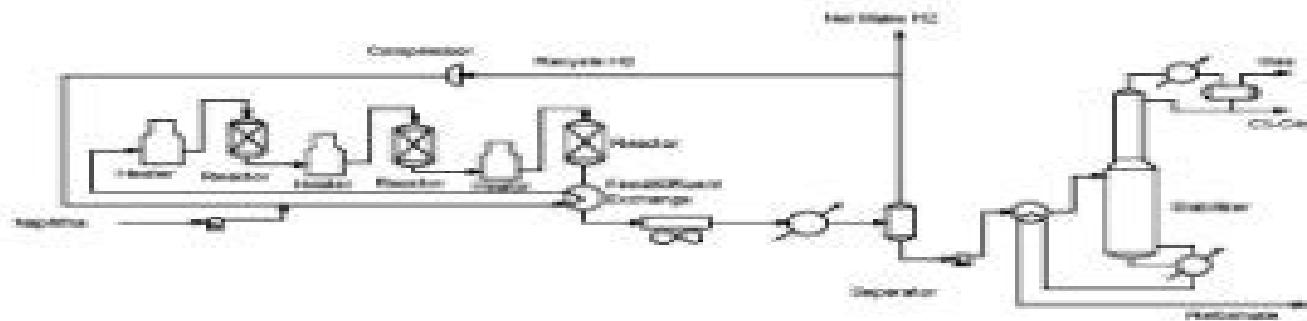


REFINERY PROCESS MODELING

Sample Problem Three:

Modeling a Naphtha Desulfurizer/Reformer Unit



Gerald L. Kach

Consulting Chemical Engineer
Chemical Process Simulation
Colbert, Georgia

Refinery Process Modeling Sample Problem One

Modeling A Crudevacuum System With Preheat Train

**Gerald L. Kaes, Kaes Enterprises,
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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.

Refinery Process Modeling, Sample Problem Three Gerald L. Kaes, Kaes Enterprises, Incorporated, 2002-01-01 **Multi-scale Modelling of Refinery Pre-heat Trains Undergoing Fouling for**

Improved Energy Efficiency Francesco Coletti, 2010. Fouling in pre-heat trains of refinery crude distillation units causes major energy inefficiencies, resulting in increased costs, greenhouse gas emissions, maintenance efforts, and health and safety hazards. Although chemical and physical phenomena underlying fouling deposition are extremely complex and several details remain unknown, the understanding of the fouling process has progressed significantly in the past 40 years. However, this knowledge has so far not been exploited to effectively improve heat exchanger and heat exchanger network design and operation. As a result, old methodologies that neglect the local effects and dynamics of fouling in favour of lumped steady-state heuristic models (e.g., using TEMA fouling factors) are still used. In this thesis, a novel mathematical model for pre-heat trains undergoing crude oil fouling was developed, validated with plant data, and used to propose mitigation strategies. The model is dynamic, distributed, and considers simultaneously several scales of investigation. Key phenomena are captured at the tube level as a function of local conditions. These include the dependence of fouling rate on temperature and velocity, the variation of physical properties, the structural changes of the deposits over time, ageing, and the dynamics of surface roughness. The single tube model was then extended to describe a unit-scale heat exchanger geometry. This has been validated against plant data from four units in two refineries operated by major oil companies. The predicted outlet temperatures over extended periods (i.e., 4–16 months) are accurate within 1% for the tube side and 2% for the shell side. Model simulations were then used to assist the retrofit of one particular unit for which it was possible to save ca. 22% of the energy losses not including pumping power produced by fouling over ca. a year of operation. Finally, the interconnection of single heat exchangers in a network allowed the simulation of the fouling behaviour of two existing pre-heat trains. To systematically

assess the impact of fouling on refinery economics a set of key performance indicators KPIs was proposed Network level simulations were used in conjunction with the KPIs to unveil complex interactions and propose network retrofit arrangements that improve energy recovery over time whilst reducing fouling It is concluded that the model can be used with confidence to predict fouling and assist monitoring design and retrofit of refinery heat exchangers and heat exchanger networks The results shown indicate that the approach proposed can lead to substantial benefits

Petroleum Refinery Process Modeling Y. A. Liu,Ai-Fu Chang,Kiran Pashikanti,2018-06-05 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

Crude Oil Fouling Francesco Coletti,Geoffrey Hewitt,2014-11-21 Nearly every gallon or litre of fuel which is used in transport vehicles cars trucks trains aeroplanes etc is derived from oil which is extracted in the crude state from oil wells and which is then processed in an oil refinery to yield the required transport fuel gasoline diesel kerosene etc The first task in the refinery is to separate these useful fuels from the crude oil by the process of distillation in which the components of the oil are separated on the basis of their volatility Of course the components of crude oil which are of volatility too low to allow them to be used as fuels are also separated in the distillation process and can be either directly used for example as lubricating or fuel oils or can be chemically converted to more volatile materials

Refinery Process Modeling Gerald L. Kaes,2008

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