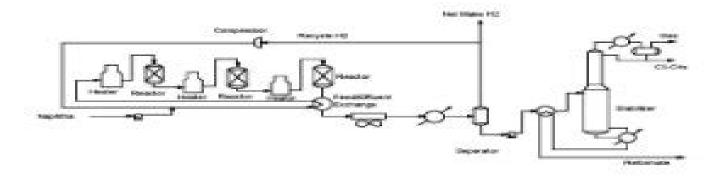
REFINERY PROCESS MODELING

Sample Problem Three:

Modeling a Naphtha Desulfurizer/Reformer Unit



Gerald L. Kaes

Consulting Chemical Engineer Chemical Process Simulation Colbert, Georgia

Y. A. Liu, Ai-Fu Chang, Kiran Pashikanti

Refinery Process Modeling Sample Problem One Modeling A Crudevacuum System With Preheat Train: Refinery Process Modeling, Sample Problem One Gerald L. Kaes, Kaes Enterprises, Incorporated, 2002-01-01 Refinery Process Modeling, Sample Problem Four Gerald L. Kaes, Kaes Enterprises, Incorporated, 2002-01-01 Refinery Process Modeling, Sample Problem Two Gerald L. Kaes, Kaes Enterprises, Incorporated, 2002-01-01 Refinery Process Modeling, Sample Problem Five Gerald L. Kaes, Kaes Enterprises, Incorporated, 2002-01-01 Refinery Process Modeling, Sample Problem Three Gerald L. Kaes, Kaes Enterprises, Incorporated, 2002-01-01 **Engineering** Ai-Fu Chang, Kiran Pashikanti, Y. A. Liu, 2012-05-21 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, 2018-06-05 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 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 q 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 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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Table of Contents Refinery Process Modeling Sample Problem One Modeling A Crudevacuum System With Preheat Train

- 1. Understanding the eBook Refinery Process Modeling Sample Problem One Modeling A Crudevacuum System With Preheat Train
 - The Rise of Digital Reading Refinery Process Modeling Sample Problem One Modeling A Crudevacuum System With Preheat Train
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Refinery Process Modeling Sample Problem One Modeling A Crudevacuum System With Preheat Train
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Refinery Process Modeling Sample Problem One Modeling A Crudevacuum System With Preheat Train
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Refinery Process Modeling Sample Problem One Modeling A Crudevacuum System With Preheat Train
 - Personalized Recommendations

- Refinery Process Modeling Sample Problem One Modeling A Crudevacuum System With Preheat Train User Reviews and Ratings
- Refinery Process Modeling Sample Problem One Modeling A Crudevacuum System With Preheat Train and Bestseller Lists
- 5. Accessing Refinery Process Modeling Sample Problem One Modeling A Crudevacuum System With Preheat Train Free and Paid eBooks
 - Refinery Process Modeling Sample Problem One Modeling A Crudevacuum System With Preheat Train Public Domain eBooks
 - Refinery Process Modeling Sample Problem One Modeling A Crudevacuum System With Preheat Train eBook Subscription Services
 - Refinery Process Modeling Sample Problem One Modeling A Crudevacuum System With Preheat Train Budget-Friendly Options
- 6. Navigating Refinery Process Modeling Sample Problem One Modeling A Crudevacuum System With Preheat Train eBook Formats
 - o ePub, PDF, MOBI, and More
 - Refinery Process Modeling Sample Problem One Modeling A Crudevacuum System With Preheat Train Compatibility with Devices
 - Refinery Process Modeling Sample Problem One Modeling A Crudevacuum System With Preheat Train Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Refinery Process Modeling Sample Problem One Modeling A Crudevacuum System With Preheat Train
 - Highlighting and Note-Taking Refinery Process Modeling Sample Problem One Modeling A Crudevacuum System With Preheat Train
 - Interactive Elements Refinery Process Modeling Sample Problem One Modeling A Crudevacuum System With Preheat Train
- 8. Staying Engaged with Refinery Process Modeling Sample Problem One Modeling A Crudevacuum System With Preheat Train
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs

- Following Authors and Publishers Refinery Process Modeling Sample Problem One Modeling A Crudevacuum System With Preheat Train
- 9. Balancing eBooks and Physical Books Refinery Process Modeling Sample Problem One Modeling A Crudevacuum System With Preheat Train
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Refinery Process Modeling Sample Problem One Modeling A Crudevacuum System With Preheat Train
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Refinery Process Modeling Sample Problem One Modeling A Crudevacuum System With Preheat Train
 - Setting Reading Goals Refinery Process Modeling Sample Problem One Modeling A Crudevacuum System With Preheat Train
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Refinery Process Modeling Sample Problem One Modeling A Crudevacuum System With Preheat Train
 - Fact-Checking eBook Content of Refinery Process Modeling Sample Problem One Modeling A Crudevacuum System With Preheat Train
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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