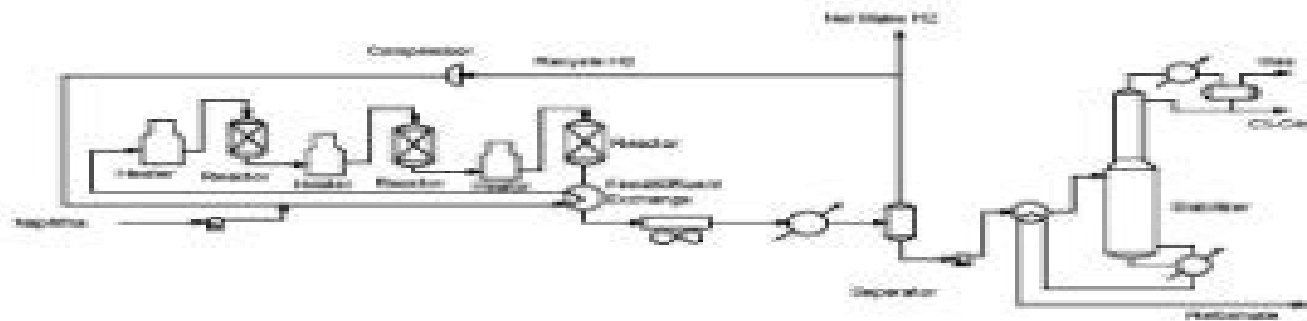


## REFINERY PROCESS MODELING

### 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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## **Refinery Process Modeling Sample Problem One Modeling A Crudevacuum System With Preheat Train:**

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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

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

## Unveiling the Magic of Words: A Review of "**Refinery Process Modeling Sample Problem One Modeling A Crudevacuum System With Preheat Train**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Refinery Process Modeling Sample Problem One Modeling A Crudevacuum System With Preheat Train**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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#### **Introduction**

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