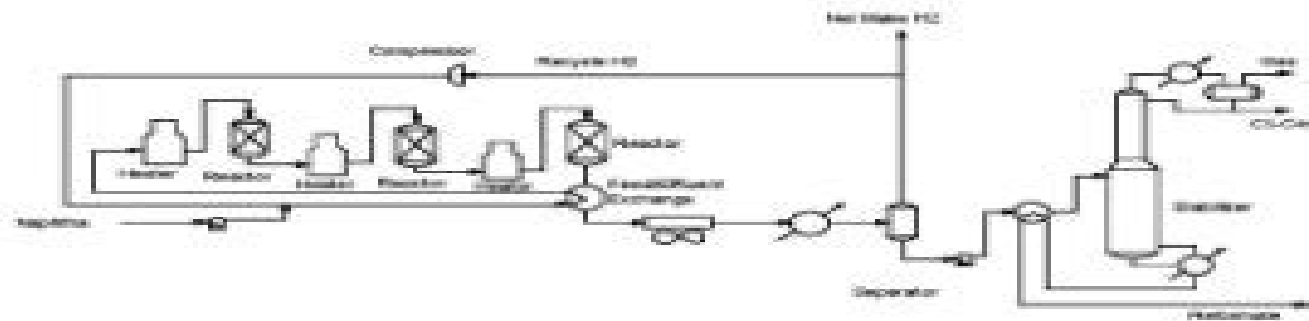


REFINERY PROCESS MODELING

Sample Problem Three:

Modeling a Naphtha Desulfurizer/Reformer Unit



Gerald L. Kach

Consulting Chemical Engineer
Chemical Process Simulation
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Refinery Process Modeling Sample Problem One

Modeling A Crudevacuum System With Preheat Train

Francesco Coletti



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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**

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 **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 **Petroleum Refinery Process Modeling** Y. A. Liu,Ai-Fu Chang,Kiran

Pashikanti,2018-02-09 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 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

Refinery scheduling optimization using genetic algorithms and cooperative coevolution, 2004 Esta disserta o investiga a aplica o de Algoritmos Gen ticos e de Co Evolu o Cooperativa na otimizac o da programa o da produ o em refinarias de petr leo Refinarias de petr leo constituem um dos mais importantes exemplos de plantas cont nuas multiproduto isto um sistema de

processamento contínuo gerador de múltiplos produtos simultâneos Uma refinaria em geral processa um ou mais tipos de petróleo produzindo uma série de produtos derivados como o GLP e o liquefeito de petróleo a nafta o querosene e o óleo diesel Trata-se de um problema complexo de otimização devido ao número e diversidade de atividades existentes e diferentes objetivos Além disso neste problema algumas atividades dependem de que outras atividades já tenham sido planejadas para que possam então ser planejadas Um caso típico das retiradas de produtos de uma unidade de processo que dependem de que a carga já tenha sido planejada assim como em qual campanha a unidade estará naquele instante Por isso o uso de modelos revolucionários convencionais como os baseados em ordem pode gerar muitas soluções inválidas que deverão ser posteriormente corrigidas ou descartadas comprometendo o desempenho e a viabilidade do algoritmo O objetivo do trabalho foi então desenvolver um modelo evolucionário para otimizar a programação da produção scheduling segundo objetivos bem definidos capaz de lidar com as restrições do problema gerando apenas soluções viáveis O trabalho consistiu em três etapas principais um estudo sobre o refino de petróleo e a programação da produção em refinarias a definição de um modelo usando algoritmos genéticos e coevolução cooperativa para otimização da programação da produção e a implementação de uma ferramenta para estudo de caso O estudo sobre o refino e a programação da produção envolveu o levantamento das várias etapas do processamento do petróleo em uma refinaria desde o seu recebimento destilação e transformação em diversos produtos acabados que são então enviados a seus respectivos destinos Neste estudo também foi levantada a estrutura de tomada de decisão em uma refinaria e seus vários níveis diferenciando os objetivos destes níveis e explicitando o papel da programação da produção nesta estrutura A partir daí foram estudadas em detalhes todas as atividades que normalmente ocorrem na refinaria e que são definidas na programação e seus papéis na produção da refinaria A decisão de quando e com que recursos executar estas atividades o resultado final da programação e portanto a saída principal do algoritmo A modelagem do algoritmo genético consistiu inicialmente em um estudo de representações utilizadas para problemas de scheduling O modelo coevolucionário adotado considera a decomposição do problema em duas partes e portanto emprega duas populações com responsabilidades diferentes uma responsável por indicar quando uma atividade deve ser planejada e a outra responsável por indicar com quais recursos essa mesma atividade deve ser realizada A primeira população teve sua representação baseada em um modelo usado para problemas do tipo Dial A Ride Moon et al 2002 que utiliza um grafo para indicar função de avaliação a ordem na qual o planejamento deve ser construído Esta representação foi elaborada desta forma para que fosse levada em conta a existência de restrições de precedência atividades que devem ser planejadas antes de outras e assim não fossem geradas soluções inválidas pelo algoritmo A segunda população que se responsabiliza pela alocação dos recursos para a execução das atividades conta com uma representação onde os operadores genéticos podem atuar na ordem de escolha dos recursos que podem realizar cada uma das atividades Finalmente desenvolveu-se uma ferramenta para implementar estes modelos e tratar de um estudo de caso que oferecesse as características necessárias para testar a qualidade das representações e avaliar os resultados Foi criada uma refinaria bem simples mas

que contasse com todos os tipos de equipamentos atividades e restri es presentes em uma refinaria real As restri es existentes s o tanto as de preced ncia que s o incorporadas atrav s do grafo utilizado pela primeira esp cie quanto s restri es operacionais inerentes ao problema e planta escolhida Com isso foi poss vel validar o processo de decodifica o dos cromossomos em solu es vi veis respeitando as restri es do problema Foram realizados v rios testes que demonstraram a capacidade dos modelos desenvolvidos em gerar solu es vi veis sem a necessidade de heur sticas de corre o e os resultados obtidos foram comparados com os de um processo de busca exaustiva Foram criados tr s cen rios de teste com demandas restri es e tamanhos diferentes Em todos os casos os resultados obtidos pelos modelos foram sempre muito superiores aos da busca exaustiva

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