

9 Hydrocracker

The Hydrocracker model in HYSYS Refining is a state-of-the-art Hydrocracker Unit simulation system that can be used for modeling a single-stage, two-stage Unicracker, or two-stage Isocracker hydrocracker unit as a standalone unit operation or as part of a refinery-wide flowsheet.

The Hydrocracker can be used for both hydrotreating and hydrocracking. It can be set up with 1-3 reactors, each containing 1-6 beds, with options to model some beds as treating only beds. It can handle internal amine scrubbers and 1-2 HPS depending on the number of stages.

The Hydrocracker includes feed characterization system, reactor section(s), recycle gas loop(s), product separation, and product mapper. The reactor model is based on rigorous kinetics. The feed characterization system and product mapper are designed to work together with the HYSYS Refining assay system so the Hydrocracker model can be simulated in a refinery-wide flowsheet.

The features of the Hydrocracker operation are grouped into two environments:

- **Main Environment:** In the Main environment, the Hydrocracker is shown to be part of the PFD. You can specify overall Hydrocracker parameters and connect the streams from the simulation case to the Hydrocracker operation.
- **HCR Environment**
- **Calibration Environment**

For information regarding the Kinetic Lumps, refer to [Hydrocracker \(HCR\) Kinetic Lumps](#).

Configuration Options

Configuration Options				
Stages	Reactors	Beds	Treating Beds	HPS
1	1	1-6	1-5	1

Hydrocracker Unit Operation Manual

Rachel Sandford



Hydrocracker Unit Operation Manual:

Handbook of Petroleum Refining James G. Speight, 2016-10-26 Petroleum refining involves refining crude petroleum as well as producing raw materials for the petrochemical industry This book covers current refinery processes and process types that are likely to come on stream during the next three to five decades The book includes 1 comparisons of conventional feedstocks with heavy oil tar sand bitumen and bio feedstocks 2 properties and refinability of the various feedstocks 3 thermal processes versus hydroprocesses and 4 the influence of refining on the environment *Handbook of Refinery Desulfurization* Nour Shafik El-Gendy, James G. Speight, 2015-09-18 Handbook of Refinery Desulfurization describes the operation of the various desulfurization process units in a petroleum refinery It also explains the processes that produce raw materials for the petrochemical industry It illustrates all the possible processes to lower the sulfur contents in petroleum and its fractions to decrease emissions of sulfur

Petroleum Refining Design and Applications Handbook, Volume 3 A. Kayode Coker, 2022-06-21 PETROLEUM REFINING The third volume of a multi volume set of the most comprehensive and up to date coverage of the advances of petroleum refining designs and applications written by one of the world s most well known process engineers this is a must have for any chemical process or petroleum engineer This volume continues the most up to date and comprehensive coverage of the most significant and recent changes to petroleum refining presenting the state of the art to the engineer scientist or student This book provides the design of process equipment such as vessels for the separation of two phase and three phase fluids using Excel spreadsheets and extensive process safety investigations of refinery incidents distillation distillation sequencing and dividing wall columns It also covers multicomponent distillation packed towers liquid liquid extraction using UniSim design software and process safety incidents involving these equipment items and pertinent industrial case studies Useful as a textbook this is also an excellent handy go to reference for the veteran engineer a volume no chemical or process engineering library should be without Written by one of the world s foremost authorities this book sets the standard for the industry and is an integral part of the petroleum refining renaissance It is truly a must have for any practicing engineer or student in this area This groundbreaking new volume Assists engineers in rapidly analyzing problems and finding effective design methods and select mechanical specifications Provides improved design manuals to methods and proven fundamentals of process design with related data and charts Covers a complete range of basic day to day petroleum refining operations topics with new materials on significant industry changes Includes extensive Excel spreadsheets for the design of process vessels for mechanical separation of two phase and three phase fluids Provides UniSim based case studies for enabling simulation of key processes outlined in the book Helps achieve optimum operations and process conditions and shows how to translate design fundamentals into mechanical equipment specifications Has a related website that includes computer applications along with spreadsheets and concise applied process design flow charts and process data sheets Provides various case studies of process safety incidents in refineries and means of mitigating these

from investigations by the US Chemical Safety Board Includes a vast Glossary of Petroleum and Technical Terminology

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