Thermal Hydrocracking of Athabasca Bitumen - Comparison of Computer Simulated Values of Feed and Product Vaporization with Canmet Pilot Plant Data.

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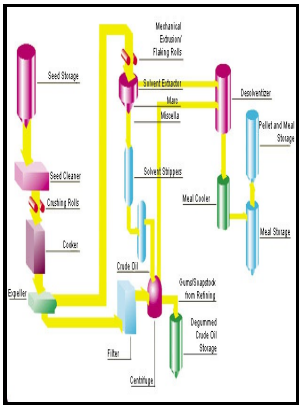

Description: -
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CANMET report -- 80-23Thermal Hydrocracking of Athabasca Bitumen - Comparison of Computer Simulated Values of Feed and Product Vaporization with Canmet Pilot Plant Data.
Notes: 1
This edition was published in 1980

Tags: #Thermal #hydrocracking #of #Athabasca #bitumen #: #comparison #of #computer #simulated #values #of #feed #and #product #vaporization #with #CANMET #pilot #plant #data #/ #D.J. #Patmore #and #B.B. #Pruden. #: #M38

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The effects of sample weight, heating rate and final temperature on the weight loss as a function of time were examined.

Thermal hydrocracking of Athabasca bitumen: comparison of computer

The US Department of Energy DOE Direct Coal Liquefaction effort, in which Hydrocarbon Technologies, Inc. An adequate description of the pitch pyrolysis kinetics was achieved using a 2-stage first order model with the integral analysis method. Following a comprehensive appraisal of the experimental data and economic potential in 1979, it was concluded that commercialization could be justified.

Heat of reaction and vaporization of feed and product in the thermal hydrocracking of Athabasca bitumen

This mutual dependence prompted an the examination of the accuracy of these kinetic parameters, and a search for a single set of parameters for each stage of the pitch pyrolysis.

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In the latter technique samples are pyrolyzed at high heating rates and products analyzed with in-line gas chromatography. These involve estimating the equilibrium vaporization constant, K, for various components of the system using known or estimated values of their thermodynamic properties.

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