



Refinery Process Modeling: Sample Problem 4 [Delayed Coking]

By Gerald L Kaes

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The author uses the principles in his book, *Refinery Process Modeling*, to present a stepwise, simulator-independent model building procedure.

Delayed coking units present a special challenge since a portion of the main fractionator products leave the bottom of the tower with the fresh feed as an unmeasured "hidden" recycle.

This sample problem provides techniques for estimating the "hidden" recycle composition and flow so the total coke drum outlet can be defined for the main fractionator calculations.

Straight-forward methods to model and specify the coker main fractionator are also described in this problem.

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Editorial Review

About the Author

Gerald L. Kaes is a consulting chemical engineer who specializes in the petroleum refining processes. A brief biography is given in conjunction with his book, *Refinery Process Modeling*, ISBN:0-9679274-0-4, available through *Amazon.com*.

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