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This example makes use of CHEMCAD Dynamics. The calculation begins at steady state. At the very beginning of the dynamic simulation, the feed streams are switched with Ramp Controllers, what creates a distortion to steady state. The control system at the reboiler has to maintain possibly constant recirculation flowrate

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The CHEMCAD module CC-THERM contains numerous calculation bases for different types of heat exchangers (tube bundles, plates, air coolers etc.) and application cases (condensation, evaporation, natural circulation, etc.). The use of CC-THERM is explained in this tutorial using a simple example: the rating of a tube bundle apparatus.

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Example: multicomponent distillation with shortcut methods Consider a single distillation column as shown in Fig. 6-1. Short-cut methods have been developed that allow you to see the splits that can be achieved at different pressures, with different reflux ratios, and with a different number of stages. It is often useful to do a short-cut distillation calculation first, before doing the more ...

Example: multicomponent distillation with shortcut methods
CHEMCAD Book of Examples - Steady State and Dynamics CHEMCAD Version 7 User Guide 1 Chapter 1 Introduction to CHEMCAD Welcome to CHEMCAD Version 7, a powerful and effective software tool for chemical process simulation. Whether you’re a new or experienced CHEMCAD user, you’ll appreciate the program’s user-friendly, feature-rich interface. Creating Chemcad | CC-DYNAMICS Chemcad ...
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