

HYSYS

James M. Lee

HYSYS is an interactive process engineering and simulation program. It is powerful program that you can use to solve all kinds of process related problems. However, since you have to provide various conditions and choices in order to solve a problem, you cannot use it effectively unless you have good knowledge about the process and the solution procedures. The objective of this class is to introduce you to the program so that you can use it as you take core chemical engineering courses in the future.

You can find all kinds of documentation (tutorials, manuals, examples, etc) from the following web site:

<http://www.hyprotech.com/hysys/support/index.html> - HYSYS%20Documentation

You can find numerous other resources by searching the web. Your search results will include many course web sites of other chemical engineering departments. Let's start with simple examples to find out how HYSYS works.

Example 1: Flash Separation

We have a stream containing 15% ethane, 20% propane, 60% *i*-butane and 5% *n*-butane at 50°F and atmospheric pressure, and a flow rate of 100 lbmole/hr. This stream is to be compressed to 50 psia, and then cooled to 32°F. The resulting vapor and liquid are to be separated as the two product streams. What are the flow rates and compositions of these two streams?

Solution

This instruction is brief. You may not be able to understand it unless you see the classroom demonstration.

1. Start HYSYS
2. Go in the **File** menu to select **New** then **Case**.
3. *Simulation Basis Manager* will pop up. Click **Add**. *Fluid Package* window will be opened.
4. Choose **Peng Robinson** as Base Property Package
5. Open **Component** page of *Fluid Package* window and add components (ethane, propane, *i*-butane, *n*-butane) and close the *Fluid Package*.
6. Click **Enter Simulation Environment** at the bottom of *Simulation Basis Manager*.
7. Click **Compressor** in the *Object Palette* and click it on *Process Flow Diagram (PFD)*. Do the same for the **Cooler** and **Separator**. See the figure next page for the shapes of compressor, cooler, and separator.
8. Click **Compressor** in *PFD*. Name the **Inlet** as Inlet Stream, the **Outlet** as Compressed, and the Energy as Comp Energy and close the window
9. Click **Cooler** in *PFD*. Choose the name of the **Inlet** as Compressed, the **Outlet** as Cooled, and the Energy as Cooling Energy. Close the window.

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