

HYSYS

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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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Hysys Simulation Examples Reactor Pdfslibforme:

The Top Books of the Year Hysys Simulation Examples Reactor Pdfslibforme The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and gripping novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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