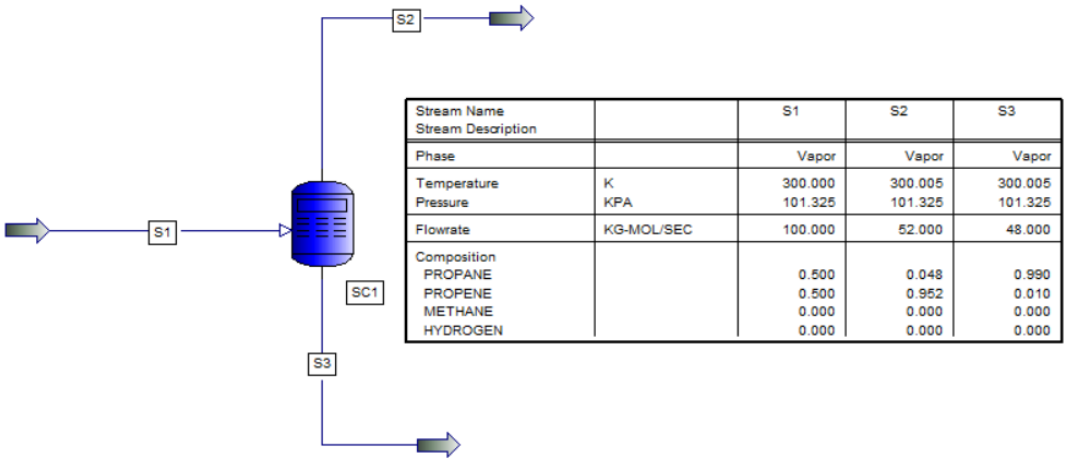
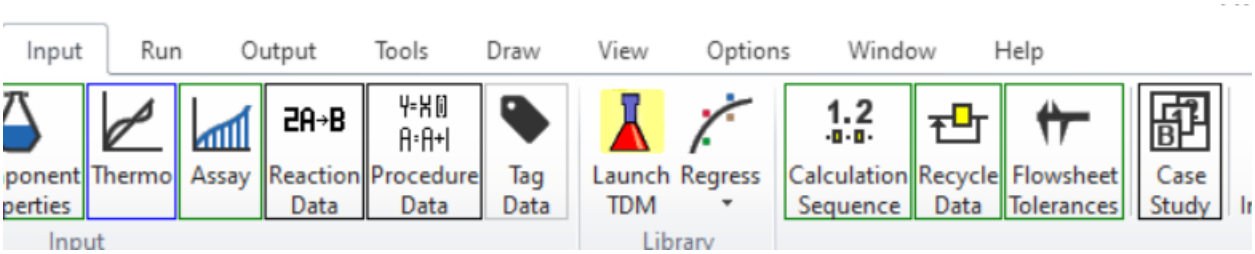
Case Study in PRO/II

Start with Separator from Problem 2



Stream Name Stream Description		S1	S2	S3
Phase		Vapor	Vapor	Vapor
Temperature Pressure	K KPA	300.000 101.325	300.005 101.325	300.005 101.325
Flowrate	KG-MOL/SEC	100.000	52.000	48.000
Composition PROPANE PROPENE METHANE HYDROGEN		 0.500 0.500 0.000 0.000	 0.048 0.952 0.000 0.000	 0.990 0.010 0.000 0.000

Click on the Input Tab and click on Case Study



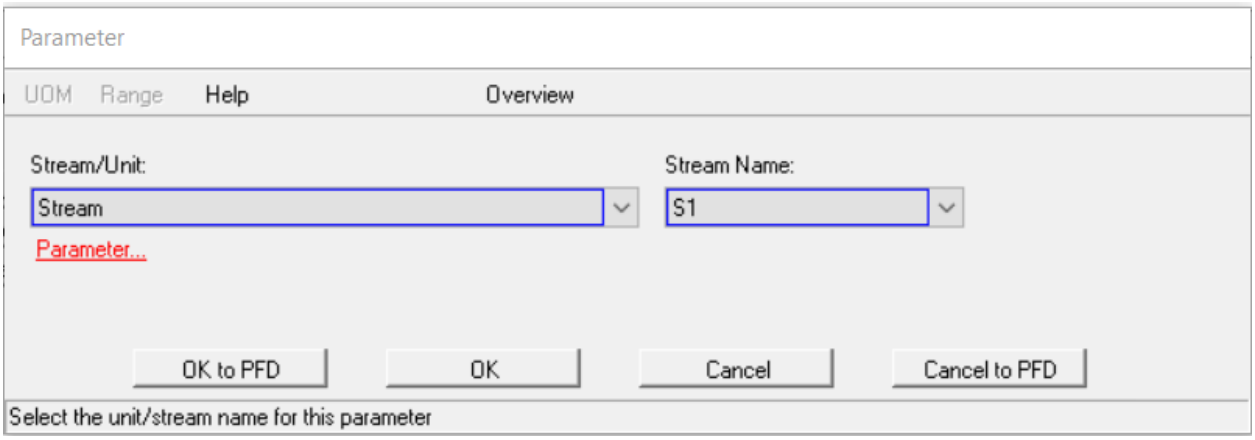
Click on Define Case Study.

Click on PARAM1 and change to something representative of your parameter, such as FEEDFLOW.

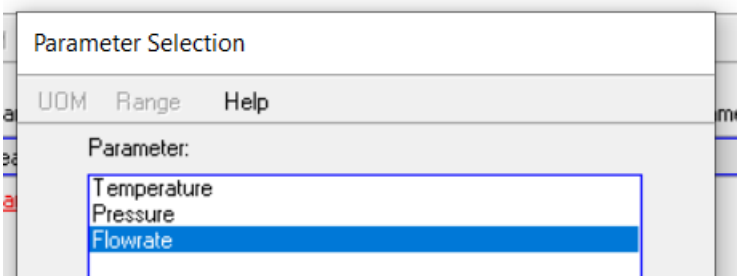
Click on Parameter.

Choose Stream

Choose S1



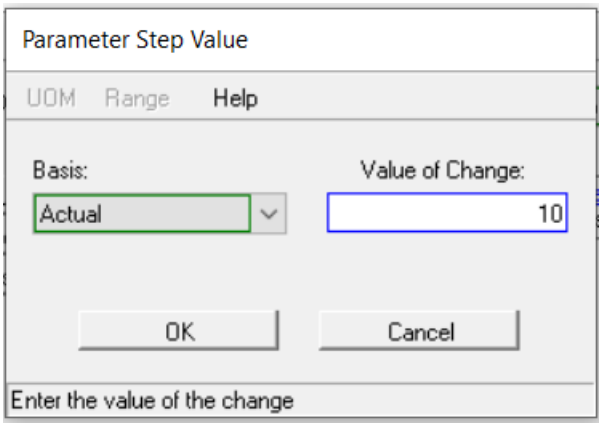
Click on Parameter… and choose Flowrate.



Click OK, OK

Click on the second Cycle 1 and change to 10.

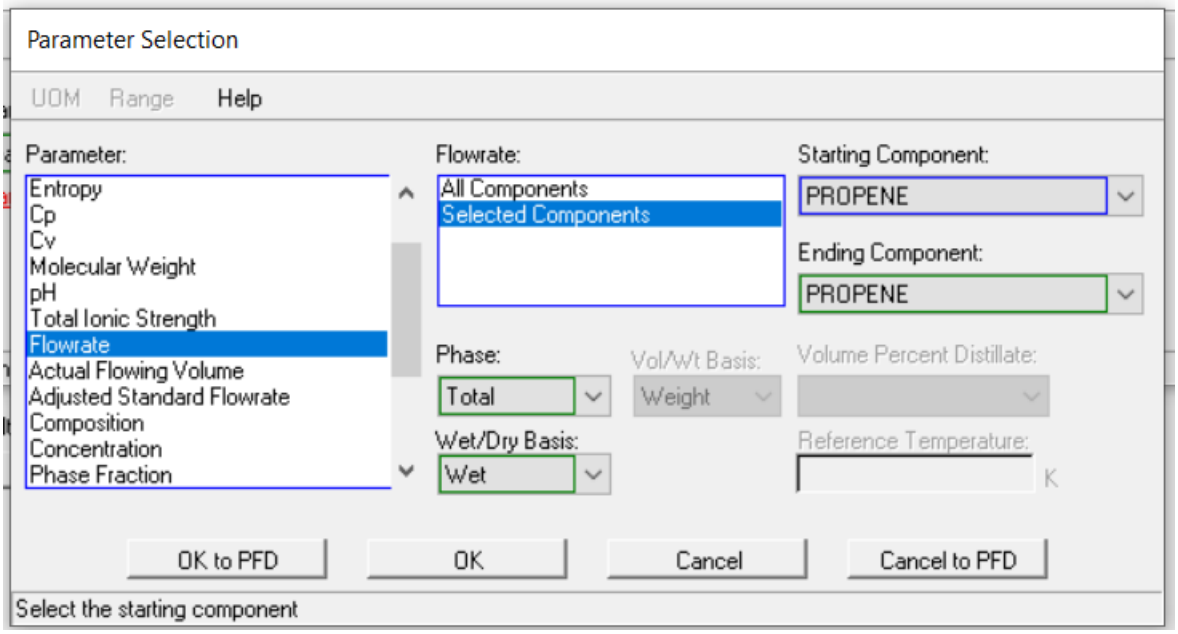
Click on step size.



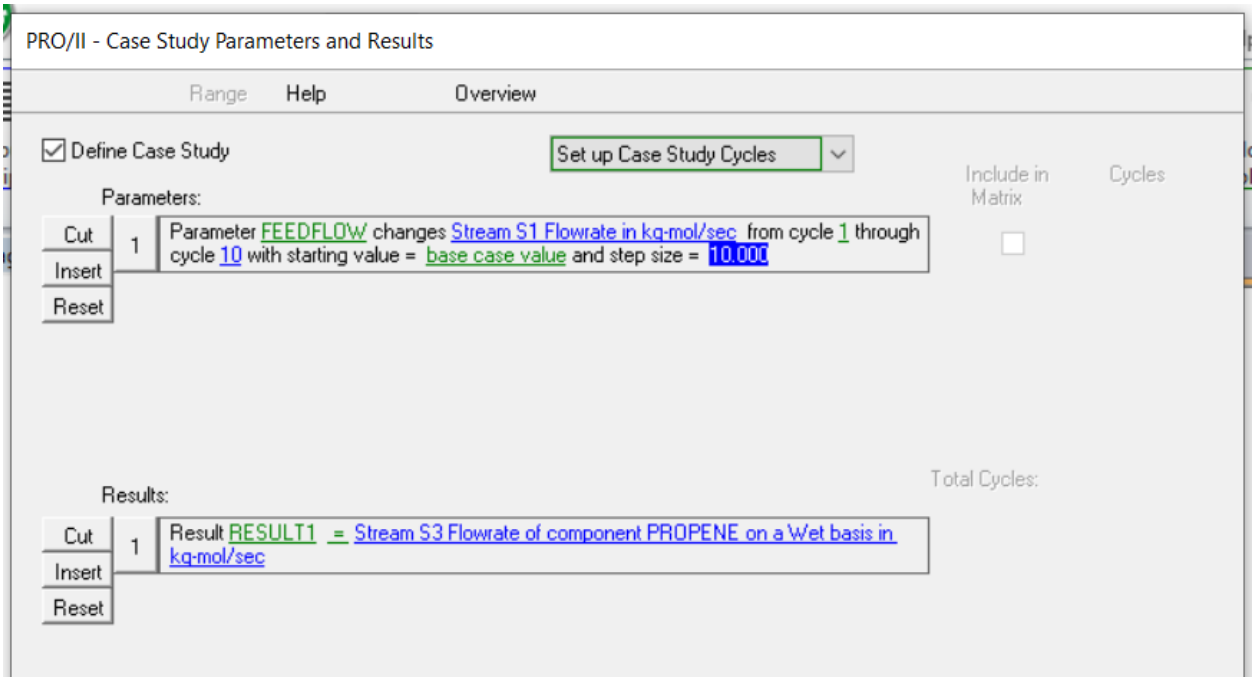
Leave as Actual and make Value of Change 10. Click OK.

If desired, click on RESULT1 and change name to something more mnemonic.

Click on Parameter. Leave as Stream. Choose Stream Name S3. Click on Parameter. Choose Flowrate. Choose Selected Components. Choose Starting Component PROPENE and Ending Component PROPENE.



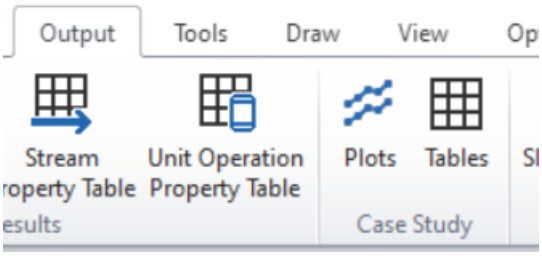
Click OK, OK



Click OK.

Click the RUN button ▶ . Click on Run Simulation.

Click on the Output tab and click on Case Study Plots..



Give the plot a name (all caps, no spaces) and a title.

Click on DATA.

Click on FEEDFLOW and then ADD.

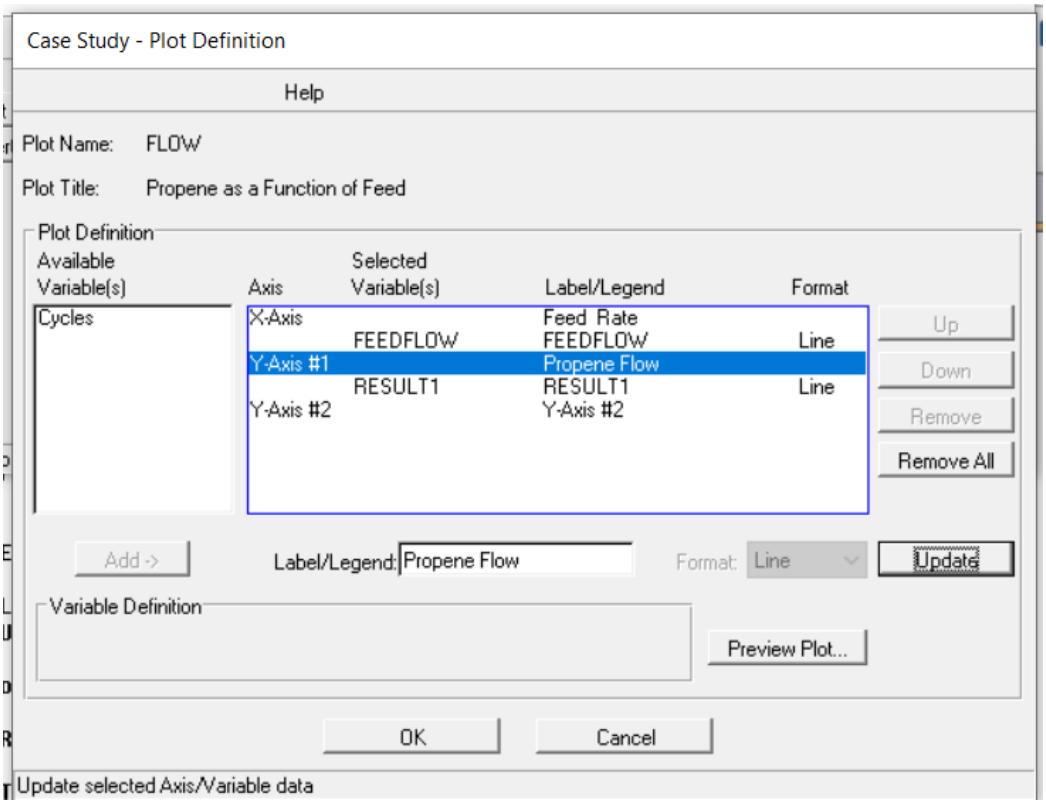
Click on the just added line and then twice on the Up button.

Click on the X-Axis line. Change Label/Legend to Feed Rate and Click Update.

Click on RESULT1 (or whatever you called it) and then click ADD.

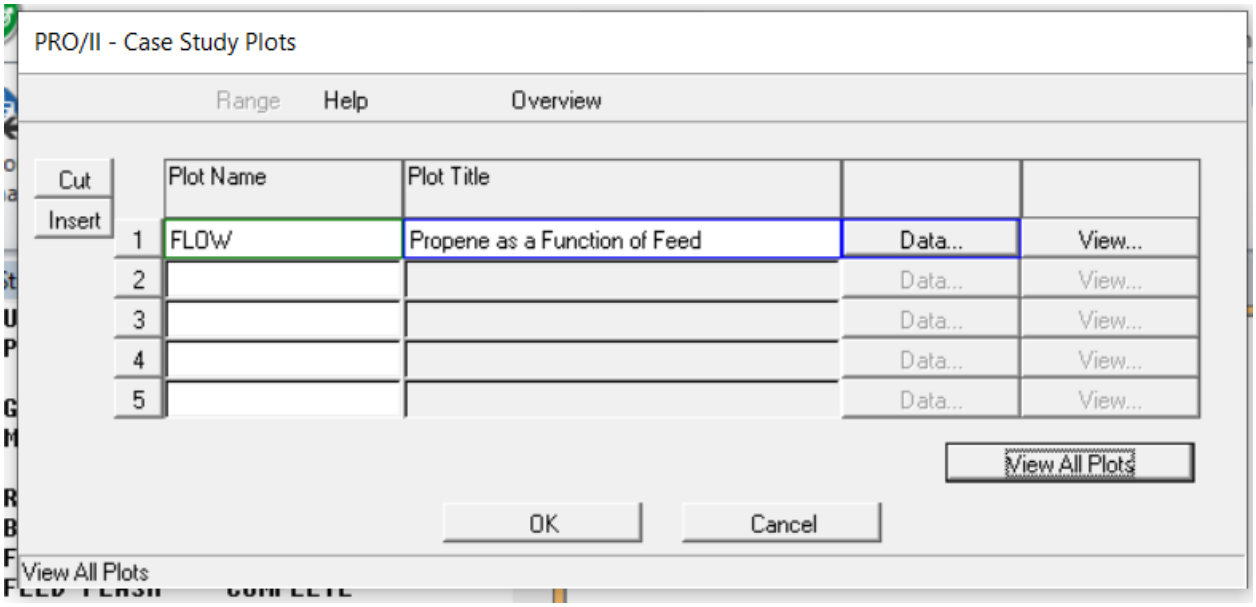
Click on the just added line and click Up once.

Click on the Y-Axis #1 line. Change Label/Legend to Propene Flow and Click Update

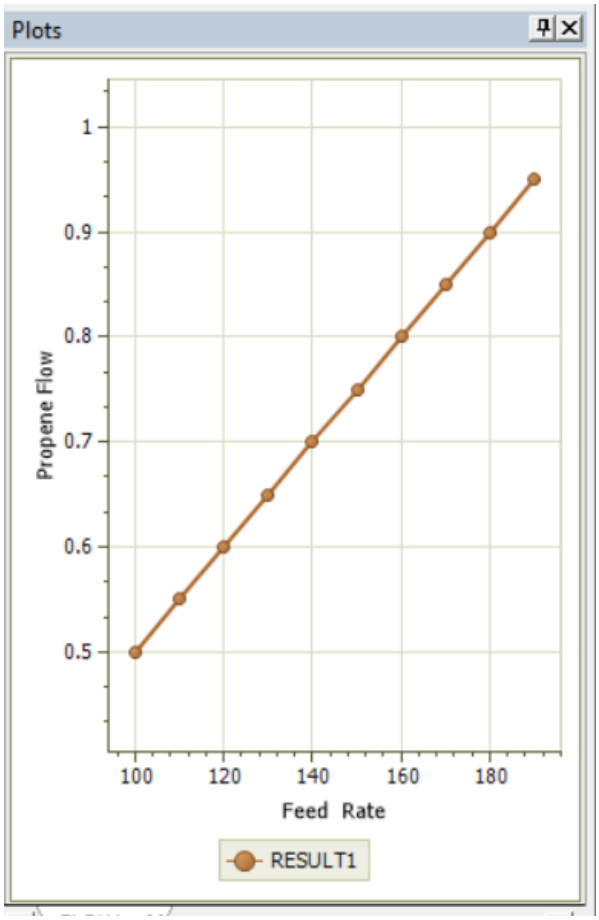


Click OK.

Click View All Plots.



The rather boring plot will be displayed.



There are lots of options for Case Studies. Explore a few.