

ChE 3063 Homework Set #6

Due: November 13, 2020

Do the following problems in S&VNAS, 8th ed.:

1. 14.17 - using Excel to solve - print Excel solution to turn in
Use ϕ_i 's = 1 (ideal gas phase)
2. 14.33 - using HYSYS to solve - turn in a screen snapshot of your HYSYS composition of product page. Use Peng-Robinson EOS.

For Exam III, you might like to try similar problems such as 14.11, 14.12, and 14.13 in S&VNAS using just your calculator. Another good exercise would also be to solve 14.17 in Excel, then solve with your calculator and see if you can get the same answer. Note that HYSYS should give similar answers, but because they have different physical component data, the answers will be different.