

## Homework Set #9

(due April 13, 2001)

1.) Geankoplis Prob. 10.4-1

Please first read Section 10.4C and Example 10.4-1 to understand the difference between  $k$  and  $k'$  (one-phase coefficients); then read Section 10.4D to understand the difference between  $K$  and  $K'$  (overall coefficients).

2.) Geankoplis Prob. 10.6-4

Use equilibrium data from Appendix A.3-22. This is definitely not a dilute gas, so you should plot the operating line and equilibrium curve on mole ratio coordinates ( $X,Y$ ) rather than mole fraction coordinates ( $x,y$ ).

3.) Geankoplis Prob. 10.6-6

4.) Geankoplis Prob. 10.6-8

5.) Geankoplis Prob. 10.6-9

6.) Geankoplis Prob. 10.6-11