

**ChE 344**  
Week 5  
Problem Set 7  
Due Tuesday, February 5, 2013 (Lecture 8)

**Individual Assignment**

1. PLQ8 - Submit the answers to the following questions to CTools before 9:10 am. Pressure Drop (Review of ChE 341) Also see pages 169-174.
  - (a) Define  $\varphi$ ,  $D_p$ ,  $\beta_0$ ,  $\rho$ ,  $G$ , and  $\alpha$ .
  - (b) What is  $\alpha$  and on what variables does it depend?
2. P5-8<sub>A</sub> omit Parts (d) and (e)
3. P5-12<sub>A</sub> (a) and (b)
4. P5-16<sub>B</sub> (Clean your desk and try to work this California Professional Engineering Exam Problem in 30 minutes). You might want to have a table of integrals handy or use Appendix A.