

**ChE 344**  
Week 10  
Problem Set 15  
Due Thursday, March 14, 2013 (Lecture 16 A & B)

PFRs and PBRs with Heat Exchange

**Individual Assignment**

1. PLQ 16 - Write two or three sentences describing how one arrives at Eqn (11-29) on page 492. Send to CTools. [possible hint:  $r_i = v_i(-r_A)$ ]

**Group Assignment**

1. P9-9<sub>B</sub> - Life Long Learning Skill Problem (i.e. no lecture on this)
2. Sit down as a group and run the review section (ONLY) for Interactive Computer Games (ICGs): "Heat Effects I" and "Heat Effects II". Write a few sentences on what you learned and discuss if the review is sufficient to replace the derivation of Equation 11-28 in the class lecture? If not, what needs to be done to have the ICM replace this lecture?
3. P11-2<sub>A</sub>(b)
4. Use free association to brainstorm 25 uses of old cars for playground equipment at a children's park.
5. Individual, but turn in as a group assignment
  - a. Describe 3 critical thinking actions you will practice next week and how you will practice them.
  - b. Describe 3 of the 12 ways you will practice to improve your creativity and how you practice them.