

Spring 2008

CBE 430
Problem Set #7
Due Friday, March 14

Read chapter 8 in the textbook

1. Chapter 8, #1 – Chlorination reaction
2. Chapter 8, #3 – Gas phase reaction
3. Chapter 8, #6 – Reactor comparison (feed is liquid, so volume does not change)
4. Chapter 8, #11 – Kinetics in tank reactor
5. Chapter 8, #15 – Ester pyrolysis in different reactors
(reaction runs at $1000^{\circ}\text{F} = 1462^{\circ}\text{R}$, not temperature given in problem)