Study Guide: Exam #2
(On 5-31-2016)

(Closed Book, Closed Notes, Three(3)-pages of Formulas)

Chapter 4

Must know: Sec. 4.2. Rate data. Sec. 4.3. CSTRs (single, series, parallel). EG. 4.2 <163>. Sec. 4.4 Tubular reactors (liquid and gas phase). EG. 4.3. <171>.

Examples and homework: #4.6, #4.7 (assigned).

Quizzes: Must know how to solve the class quizzes.

Plus:
Knowledge developed from reasoning of the existing principles developed in Chapter 4.

Chapter 8

Topics:
Must know: energy balance, relations between conversion X and temperature, T; Table 8.1 <477>. Adiabatic reactions. Table 8.2. Examples 8.1, 8.2, 8.3. Applications to PFR & CSTR’s. Irreversible and reversible reactions. Dependence of rate constant k and chemical equilibrium Keq values on temperature. Evaluation of “ΔH_rx” (eq.(8.14)) and “ΔCp” (eq.(8.25)) from thermal data.

Homework: #8.6 (assigned).

Quizzes: Must know how to solve the class quizzes.

Plus:
Knowledge developed from reasoning of the existing principles developed in this chapter and previous chapters.