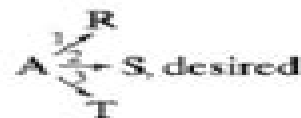


# CHAPTER 5

## EXERCISE

### Exercise 5.1

**5.1.** For a given feed stream having  $C_{A0}$ , should we use a PFR or a MFR and should we use a high or low or some intermediate conversion level for the exit stream if we wish to maximize  $\phi(S/A)$ ? The reaction system is



where  $n_1$ ,  $n_2$  and  $n_3$ , are the reaction orders of reactions 1, 2, and 3.

(a)  $n_1 = 1$ ,  $n_2 = 2$ ,  $n_3 = 3$

(b)  $n_1 = 2$ ,  $n_2 = 3$ ,  $n_3 = 1$

(c)  $n_1 = 3$ ,  $n_2 = 1$ ,  $n_3 = 2$

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**JG Myers**



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