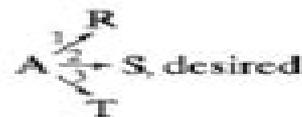


CHAPTER 5

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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