

QUESTION 1: Ideal Reactors for a Single Reaction

1.1 Consider the liquid phase reaction: $A \rightarrow B$ with a rate $r_A = -0.20 C_A^2$ ($\text{mol L}^{-1} \text{min}^{-1}$) that takes place in a PFR as shown. Determine the concentration of A (C_A) exiting the PFR. (15)



1.2 A mixed flow reactor is used to study the aqueous decomposition of a component A. By changing the feed rate, different extents of reaction are obtained as follows:

F_{A0} , mol/s	18.0	3.43	1.50	0.55
C_A , mol/dm ³	1.2	0.8	0.6	0.4

The volume of the reactor is $V = 0.1$ liter and the feed concentration is $C_{A0} = 1.5$ mol/liter. Find a rate equation to represent the decomposition reaction. (18)

[33]

QUESTION 2: Multiple-Reactor Systems

From steady-state kinetics runs in a mixed flow reactor, we obtain the following data on the reaction: $A \rightarrow B$:

C_{A0} , mol/dm ³	2.0	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.2	1.1	1.01
C_A , mol/dm ³	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2	0.1	0.01
τ , s	14	25	29	30	29	27	24	19	15	12	20

2.1 What arrangement of reactors would minimise the total volume needed for 92% conversion of A? (12)

2.2 Determine the minimum volume for a feed entering at $1 \text{ dm}^3/\text{s}$ with a concentration of $C_{A0} = 2 \text{ mol/dm}^3$? (10)

[22]

TOTAL MARKS = /55/

Exam Chemical Reaction Engineering

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