

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/

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Table of Contents Exam Chemical Reaction Engineering

1. Understanding the eBook Exam Chemical Reaction Engineering
 - The Rise of Digital Reading Exam Chemical Reaction Engineering
 - Advantages of eBooks Over Traditional Books
2. Identifying Exam Chemical Reaction Engineering
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Exam Chemical Reaction Engineering
 - User-Friendly Interface

4. Exploring eBook Recommendations from Exam Chemical Reaction Engineering
 - Personalized Recommendations
 - Exam Chemical Reaction Engineering User Reviews and Ratings
 - Exam Chemical Reaction Engineering and Bestseller Lists
5. Accessing Exam Chemical Reaction Engineering Free and Paid eBooks
 - Exam Chemical Reaction Engineering Public Domain eBooks
 - Exam Chemical Reaction Engineering eBook Subscription Services
 - Exam Chemical Reaction Engineering Budget-Friendly Options
6. Navigating Exam Chemical Reaction Engineering eBook Formats
 - ePub, PDF, MOBI, and More
 - Exam Chemical Reaction Engineering Compatibility with Devices
 - Exam Chemical Reaction Engineering Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Exam Chemical Reaction Engineering
 - Highlighting and Note-Taking Exam Chemical Reaction Engineering
 - Interactive Elements Exam Chemical Reaction Engineering
8. Staying Engaged with Exam Chemical Reaction Engineering
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Exam Chemical Reaction Engineering
9. Balancing eBooks and Physical Books Exam Chemical Reaction Engineering
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Exam Chemical Reaction Engineering
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Exam Chemical Reaction Engineering
 - Setting Reading Goals Exam Chemical Reaction Engineering
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Exam Chemical Reaction Engineering
 - Fact-Checking eBook Content of Exam Chemical Reaction Engineering
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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