

- 3.5.** In a homogeneous isothermal liquid polymerization, 20% of the monomer disappears in 34 minutes for initial monomer concentration of 0.04 and also for 0.8 mol/liter. What rate equation represents the disappearance of the monomer?

Since the fractional disappearance is independent of initial concentration we have first order rate equation,

$$\ln\left(\frac{C_{a0}}{C_a}\right) = Kt$$

Where,  $C_a$  = Monomer concentration

We also can find the rate constant, thus replacing values.

Case I:  $C_{a0} = 0.04$  mol/l

$$\ln\left(\frac{0.04}{0.8+0.04}\right) = k*34$$

So,  $k = 0.00657 \text{ min}^{-1}$ .

Case II:  $C_{a0} = 0.8$  mol/l

$$\ln\left(\frac{0.8}{0.8+0.8}\right) = k*34$$

$k = 0.00657 \text{ min}^{-1}$ .

Hence the rate of disappearance of monomer is given by,

$$-r_a = (0.00657 \text{ min}^{-1}) * C$$

- 3.6.** After 8 minutes in a batch reactor, reactant ( $C_{A0} = 1$  mol/liter) is 80% converted; after 18 minutes, conversion is 90%. Find a rate equation to represent this reaction.

$$C_{a0} = 1 \frac{\text{mol}}{\text{lit}}$$

$t = 8$  min then conversion 80%

$t = 18$  mins then conversion 90%

Assume the reaction is second order

# Levenspiel Chapter 12 Solution Manual

**RS Peters**



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## **Table of Contents Levenspiel Chapter 12 Solution Manual**

1. Understanding the eBook Levenspiel Chapter 12 Solution Manual
  - The Rise of Digital Reading Levenspiel Chapter 12 Solution Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Levenspiel Chapter 12 Solution Manual
  - 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 Levenspiel Chapter 12 Solution Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Levenspiel Chapter 12 Solution Manual
  - Personalized Recommendations
  - Levenspiel Chapter 12 Solution Manual User Reviews and Ratings
  - Levenspiel Chapter 12 Solution Manual and Bestseller Lists
5. Accessing Levenspiel Chapter 12 Solution Manual Free and Paid eBooks

- Levenspiel Chapter 12 Solution Manual Public Domain eBooks
- Levenspiel Chapter 12 Solution Manual eBook Subscription Services
- Levenspiel Chapter 12 Solution Manual Budget-Friendly Options
- 6. Navigating Levenspiel Chapter 12 Solution Manual eBook Formats
  - ePub, PDF, MOBI, and More
  - Levenspiel Chapter 12 Solution Manual Compatibility with Devices
  - Levenspiel Chapter 12 Solution Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Levenspiel Chapter 12 Solution Manual
  - Highlighting and Note-Taking Levenspiel Chapter 12 Solution Manual
  - Interactive Elements Levenspiel Chapter 12 Solution Manual
- 8. Staying Engaged with Levenspiel Chapter 12 Solution Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Levenspiel Chapter 12 Solution Manual
- 9. Balancing eBooks and Physical Books Levenspiel Chapter 12 Solution Manual
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Levenspiel Chapter 12 Solution Manual
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Levenspiel Chapter 12 Solution Manual
  - Setting Reading Goals Levenspiel Chapter 12 Solution Manual
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Levenspiel Chapter 12 Solution Manual
  - Fact-Checking eBook Content of Levenspiel Chapter 12 Solution Manual
  - 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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