

$$x_2 = \frac{1}{2} z_3 - \frac{1}{2} x_3 = \frac{1}{2} z_3 - \frac{1}{2} z_3 + \frac{3}{2} x_1$$

Then
$$z_2 = \frac{1}{2} z_3 - \frac{1}{2} z_3 + \frac{3}{2} x_1 - 2x_1 + z_3$$

$$x_1 = z_1 - 2z_2 + z_3$$

Now
$$x_3 = z_1 - 3x_1 = z_1 - 3(z_1 - 2z_2 + z_3)$$

$$x_3 = -2z_1 + 6z_2 - 3z_3$$

and,
$$x_2 = \frac{1}{2} z_3 - \frac{1}{2} x_3$$

$$x_2 = z_1 - 3z_2 + 2z_3$$

or,
$$x = \begin{bmatrix} 1 & -2 & 1 \\ 1 & -3 & 2 \\ 2 & 6 & -3 \end{bmatrix} z$$

Also, $x = A^{-1}z$

$$A^{-1} = \begin{bmatrix} 1 & -2 & 1 \\ 1 & -3 & 2 \\ 2 & 6 & -3 \end{bmatrix}$$

Now, we will find the inverse of matrix A using elementary row operations.

Solution:

$$[A : I] = \left[\begin{array}{ccc|ccc} 1 & -2 & 1 & 1 & 0 & 0 \\ 1 & -3 & 2 & 0 & 1 & 0 \\ 2 & 6 & -3 & 0 & 0 & 1 \end{array} \right]$$

$$[A : I] \xrightarrow{R_2 - R_1} \left[\begin{array}{ccc|ccc} 1 & -2 & 1 & 1 & 0 & 0 \\ 0 & -1 & 1 & -1 & 1 & 0 \\ 2 & 6 & -3 & 0 & 0 & 1 \end{array} \right]$$

$$[A : I] \xrightarrow{R_3 - 2R_1} \left[\begin{array}{ccc|ccc} 1 & -2 & 1 & 1 & 0 & 0 \\ 0 & -1 & 1 & -1 & 1 & 0 \\ 0 & 10 & -5 & -2 & 0 & 1 \end{array} \right]$$

$$[A : I] \xrightarrow{R_2 \times (-1)} \left[\begin{array}{ccc|ccc} 1 & -2 & 1 & 1 & 0 & 0 \\ 0 & 1 & -1 & 1 & -1 & 0 \\ 0 & 10 & -5 & -2 & 0 & 1 \end{array} \right]$$

Optimization Of Chemical Processes Solution Manual

Jacek Jezowski, Jan Thullie



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Table of Contents Optimization Of Chemical Processes Solution Manual

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

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