

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

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 can write the matrix equation using augmented matrix notation.

Problem 10

$$\begin{bmatrix} 2 & 1 & 1 \\ 1 & 1 & 1 \end{bmatrix} \begin{bmatrix} x \\ y \\ z \end{bmatrix} = \begin{bmatrix} 1 \\ 1 \end{bmatrix}$$

$$\begin{bmatrix} 2 & 1 & 1 & 0 & 0 \\ 1 & 1 & 1 & 0 & 0 \end{bmatrix} \begin{bmatrix} x \\ y \\ z \\ w \\ v \end{bmatrix} = \begin{bmatrix} 1 \\ 1 \end{bmatrix}$$

$$\begin{bmatrix} 2 & 1 & 1 & 0 & 0 \\ 1 & 1 & 1 & 0 & 0 \end{bmatrix} \begin{bmatrix} x \\ y \\ z \\ w \\ v \end{bmatrix} = \begin{bmatrix} 1 \\ 1 \end{bmatrix}$$

$$A^{-1} = \frac{1}{\det(A)} \begin{bmatrix} 1 & 1 \\ 1 & 2 \end{bmatrix}$$

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S Ashworth



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Optimization of Chemical Processes Thomas F. Edgar, David Mautner Himmelblau, 1988 *Exercises Solution Manual for MATLAB Applications in Chemical Engineering* Chyi-Tsong Chen, 2022-06-30 This self study solution manual in accompany with the book *MATLAB Applications in Chemical Engineering* is designed to provide readers with the key points of solving exercise problems at the end of each chapter which therefore instructively guides readers to familiarize themselves with the related MATLAB commands and programming methods for various types of problems Additionally through the assistance of this solution manual the readers would profoundly strengthen the logical abilities problem solving skills and deepen the applications of MATLAB programming language to solve analysis design simulation and optimization problems arose in related fields of chemical engineering The preparation of this manual is not for directly providing solutions but through key guidance overview and analysis and instructional solution steps to gradually cultivate readers problem solving skills

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Chemical Process Analysis and Design Using Computers Working Party on the Use of Computers in Chemical Engineering. Symposium, 1982

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AIChE Symposium Series American Institute of Chemical Engineers, 1998

Chemical Process Control 2 Engineering Foundation (U.S.). Conference, 1982

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