

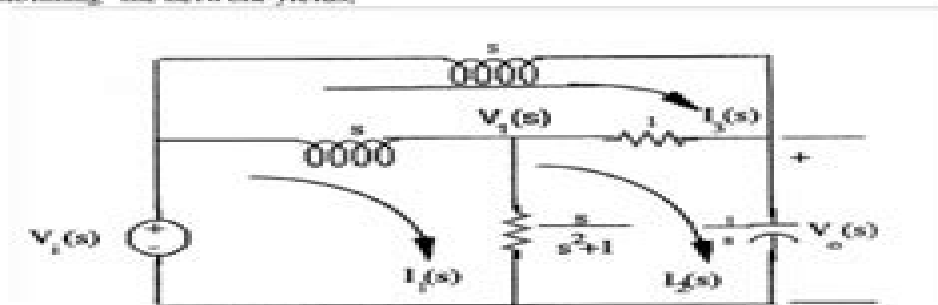
$$I_2(s) = \begin{vmatrix} 2s+1 & V_i(s) \\ -1 & 0 \\ 2s+1 & -1 \\ -1 & \frac{3s^2+s+2}{s} \end{vmatrix}$$

Solving for $I_2(s)/V_i(s)$,

$$\frac{I_2(s)}{V_i(s)} = \frac{s}{6s^2 + 5s^2 + 4s + 2}$$

But $V_o(s) = I_2(s)3s$. Therefore, $G(s) = 3s^2/(6s^2 + 5s^2 + 4s + 2)$.

b. Transforming the network yields,



Writing the loop equations,

$$\begin{aligned} (s + \frac{s}{s^2+1})I_1(s) - \frac{s}{s^2+1}I_2(s) - sI_3(s) &= V_i(s) \\ -\frac{s}{s^2+1}I_1(s) + (\frac{s}{s^2+1} + 1 + \frac{1}{s})I_2(s) - I_3(s) &= 0 \\ -sI_1(s) - I_2(s) + (2s+1)I_3(s) &= 0 \end{aligned}$$

Solving for $I_2(s)$,

$$I_2(s) = \frac{s(s^2 + 2s + 2)}{s^4 + 2s^3 + 3s^2 + 3s + 2} V_i(s)$$

But, $V_o(s) = \frac{I_2(s)}{s} = \frac{(s^2 + 2s + 2)}{s^4 + 2s^3 + 3s^2 + 3s + 2} V_i(s)$. Therefore,

$$\frac{V_o(s)}{V_i(s)} = \frac{s^2 + 2s + 2}{s^4 + 2s^3 + 3s^2 + 3s + 2}$$

19.

a. Writing the nodal equations yields,

Robot Modeling Control Solution Manual

Rachel S Tattersall



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Table of Contents Robot Modeling Control Solution Manual

1. Understanding the eBook Robot Modeling Control Solution Manual
 - The Rise of Digital Reading Robot Modeling Control Solution Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Robot Modeling Control 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 Robot Modeling Control Solution Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Robot Modeling Control Solution Manual
 - Personalized Recommendations
 - Robot Modeling Control Solution Manual User Reviews and Ratings
 - Robot Modeling Control Solution Manual and Bestseller Lists

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