

CHAPTER 5

B-5-1. Time constant = 0.25 min. The steady-state error is 2.5 degrees.

B-5-2. Rise time = 2.42 sec
 Peak time = 3.63 sec
 Maximum overshoot = 0.163
 Settling time = 8 sec (2% criterion)

B-5-3. The maximum overshoot of 5% corresponds to $\zeta = 0.69$. Hence

$$\omega_n = \frac{2}{\zeta} = \frac{2}{0.69} = 2.90 \text{ rad/sec}$$

B-5-4.

$$\frac{C(s)}{R(s)} = \frac{K(Ts+1)}{Js^2 + KTs + K}$$

Since $T = 3$, $K/J = 2/9$, we have

$$\frac{C(s)}{R(s)} = \frac{\frac{2}{9}(3s+1)}{s^2 + (\frac{2}{9})3s + \frac{2}{9}}$$

Hence, $2\zeta\omega_n = 6/9$ and $\omega_n^2 = 2/9$. Thus

$$\zeta = 0.707$$

B-5-5. When the mass m is set into motion by a unit-impulse force, the system equation becomes

$$m\ddot{x} + kx = \delta(t)$$

Define another impulse force to stop the motion as $A\delta(t - T)$, where A is the undetermined magnitude of the impulse force and $t = T$ is the undetermined instant that this impulse is to be given to the system. Then, the equation for the system when the two impulse forces are given is

$$m\ddot{x} + kx = \delta(t) + A\delta(t - T), \quad x(0^-) = 0, \quad \dot{x}(0^-) = 0$$

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Table of Contents Modern Control Engineering Ogata 4th Edition Solutions

1. Understanding the eBook Modern Control Engineering Ogata 4th Edition Solutions
 - The Rise of Digital Reading Modern Control Engineering Ogata 4th Edition Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Modern Control Engineering Ogata 4th Edition Solutions
 - 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 Modern Control Engineering Ogata 4th Edition Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Modern Control Engineering Ogata 4th Edition Solutions

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

- Fact-Checking eBook Content of Modern Control Engineering Ogata 4th Edition Solutions
- 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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