

## CHAPTER 5

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

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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 Solution Manual Modern Control System 4th Edition By Ogata**

1. Understanding the eBook Solution Manual Modern Control System 4th Edition By Ogata
  - The Rise of Digital Reading Solution Manual Modern Control System 4th Edition By Ogata
  - Advantages of eBooks Over Traditional Books
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  - 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 Solution Manual Modern Control System 4th Edition By Ogata
  - User-Friendly Interface
4. Exploring eBook Recommendations from Solution Manual Modern Control System 4th Edition By Ogata
  - Personalized Recommendations
  - Solution Manual Modern Control System 4th Edition By Ogata User Reviews and Ratings
  - Solution Manual Modern Control System 4th Edition By Ogata and Bestseller Lists

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  - Interactive Elements Solution Manual Modern Control System 4th Edition By Ogata
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  - Participating in Virtual Book Clubs
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  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
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  - Setting Reading Goals Solution Manual Modern Control System 4th Edition By Ogata
  - Carving Out Dedicated Reading Time
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  - Fact-Checking eBook Content of Solution Manual Modern Control System 4th Edition By Ogata
  - Distinguishing Credible Sources
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- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
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