

B-2-22. $\ddot{x} + 4x = 0, \quad x(0) = 5, \quad \dot{x}(0) = 0$

The Laplace transform of the given differential equation is

$$[s^2X(s) - sx(0) - \dot{x}(0)] + 4X(s) = 0$$

Substitution of the initial conditions into this last equation gives

$$(s^2 + 4)X(s) = 5s$$

Solving for $X(s)$, we obtain

$$X(s) = \frac{5s}{s^2 + 4}$$

The inverse Laplace transform of $X(s)$ is

$$x(t) = 5 \cos 2t$$

This is the solution of the given differential equation.

B-2-23. $\ddot{x} + \omega_n^2 x = t, \quad x(0) = 0, \quad \dot{x}(0) = 0$

The Laplace transform of this differential equation is

$$s^2X(s) + \omega_n^2 X(s) = \frac{1}{s^2}$$

Solving this equation for $X(s)$, we obtain

$$X(s) = \frac{1}{s^2(s^2 + \omega_n^2)} = \left(\frac{1}{s^2} - \frac{1}{s^2 + \omega_n^2} \right) \frac{1}{\omega_n^2}$$

The inverse Laplace transform of $X(s)$ is

$$x(t) = \frac{1}{\omega_n^2} \left(t - \frac{1}{\omega_n} \sin \omega_n t \right)$$

This is the solution of the given differential equation.

B-2-24. $2\ddot{x} + 2\dot{x} + x = 1, \quad x(0) = 0, \quad \dot{x}(0) = 2$

The Laplace transform of this differential equation is

$$2[s^2X(s) - sx(0) - \dot{x}(0)] + 2[sX(s) - x(0)] + X(s) = \frac{1}{s}$$

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Michael Brown



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Table of Contents Ogata System Dynamics 4th Edition Solutions

1. Understanding the eBook Ogata System Dynamics 4th Edition Solutions
 - The Rise of Digital Reading Ogata System Dynamics 4th Edition Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Ogata System Dynamics 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 Ogata System Dynamics 4th Edition Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ogata System Dynamics 4th Edition Solutions
 - Personalized Recommendations
 - Ogata System Dynamics 4th Edition Solutions User Reviews and Ratings
 - Ogata System Dynamics 4th Edition Solutions and Bestseller Lists
5. Accessing Ogata System Dynamics 4th Edition Solutions Free and Paid eBooks
 - Ogata System Dynamics 4th Edition Solutions Public Domain eBooks
 - Ogata System Dynamics 4th Edition Solutions eBook Subscription Services
 - Ogata System Dynamics 4th Edition Solutions Budget-Friendly Options
6. Navigating Ogata System Dynamics 4th Edition Solutions eBook Formats
 - ePub, PDF, MOBI, and More
 - Ogata System Dynamics 4th Edition Solutions Compatibility with Devices
 - Ogata System Dynamics 4th Edition Solutions Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ogata System Dynamics 4th Edition Solutions
 - Highlighting and Note-Taking Ogata System Dynamics 4th Edition Solutions
 - Interactive Elements Ogata System Dynamics 4th Edition Solutions

8. Staying Engaged with Ogata System Dynamics 4th Edition Solutions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ogata System Dynamics 4th Edition Solutions
9. Balancing eBooks and Physical Books Ogata System Dynamics 4th Edition Solutions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ogata System Dynamics 4th Edition Solutions
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Ogata System Dynamics 4th Edition Solutions
 - Setting Reading Goals Ogata System Dynamics 4th Edition Solutions
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ogata System Dynamics 4th Edition Solutions
 - Fact-Checking eBook Content of Ogata System Dynamics 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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