

## Chapter 2

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# Calculus of Variations and Optimal Control

Solution to Problem 2.1

The performance index is

$$\begin{aligned} J &= \int_0^2 [2x^2(t) + \dot{z}^2(t)] dt, \\ &= \int_{t_0}^{t_f} V(x(t), \dot{z}(t)) dt \end{aligned}$$

where

$$V = 2x^2(t) + \dot{z}^2(t), \quad t_0 = 0, \quad t_f = 2.$$

Using the Euler-Lagrange equation (2.3.15)

$$\begin{aligned} \left( \frac{\partial V}{\partial x} \right)_* - \frac{d}{dt} \left( \frac{\partial V}{\partial \dot{x}} \right)_* &= 0 \longrightarrow \\ 4x^*(t) - \frac{d}{dt} (2\dot{z}^*(t)) &= 0 \longrightarrow \\ \dot{z}^*(t) - 2x^*(t) &= 0. \end{aligned}$$

Solving the previous equation

$$x^*(t) = C_1 e^{\sqrt{2}t} + C_2 e^{-\sqrt{2}t}$$

# Optimal Control Systems Solution Manual

**S Ashworth**



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## **Table of Contents Optimal Control Systems Solution Manual**

1. Understanding the eBook Optimal Control Systems Solution Manual
  - The Rise of Digital Reading Optimal Control Systems Solution Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Optimal Control Systems 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 Optimal Control Systems Solution Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Optimal Control Systems Solution Manual
  - Personalized Recommendations
  - Optimal Control Systems Solution Manual User Reviews and Ratings
  - Optimal Control Systems Solution Manual and Bestseller Lists
5. Accessing Optimal Control Systems Solution Manual Free and Paid eBooks
  - Optimal Control Systems Solution Manual Public Domain eBooks
  - Optimal Control Systems Solution Manual eBook Subscription Services
  - Optimal Control Systems Solution Manual Budget-Friendly Options

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

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