

CHEM-E7190/2024: Exercise 11 Part 2/2 - Luenberger observer
[EXTRA]
- Solutions

1. Design a Luenberger observer for the following state-space system. Implement the code and simulate the system in Matlab.

$$x(k+1) = \begin{bmatrix} 1.8097 & -0.8187 \\ 1 & 0 \end{bmatrix} x(k) + \begin{bmatrix} 0.5 \\ 0 \end{bmatrix} u(k)$$

$$y(k) = [0.1810 \quad -0.1810] x(k) + [0] u(k)$$

Hint: First, check the observability of the system by computing the observability matrix. Then, select desired observer poles and use pole placement to compute the observer gain matrix L .

2. The dynamic equations of the stirred tank system in state-space form are the following:

$$\dot{x}(t) = \begin{bmatrix} -0.5 & 0 \\ 0 & -1 \end{bmatrix} x(t) + \begin{bmatrix} 1 & 0 & 0 \\ -0.1 & 1 & 1 \end{bmatrix} w(t)$$

$$y(t) = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix} x(t) + \begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix} w(t)$$

Design a Luenberger observer for the system. Implement the code and simulate the system in Matlab.

Hint: Since all states are measured (as indicated by the identity matrix in C), consider modifying the problem by assuming one state is not measured. Then, compute the observability matrix and design the observer accordingly.

3. Calculate the observer gains for the following system when the desired characteristic equation is $(\lambda + 9)(\lambda + 10)$

$$\dot{x}(t) = \begin{bmatrix} -1 & 1 \\ 2 & -4 \end{bmatrix} x(t) + \begin{bmatrix} 1 \\ 0 \end{bmatrix} u(t)$$

$$y(t) = [1 \quad 0] x(t)$$

Hint: Verify observability by constructing the observability matrix. Then, set up the characteristic equation of $(A - LC)$ and equate it to the desired characteristic equation to solve for the observer gains

$$L = \begin{bmatrix} l_1 \\ l_2 \end{bmatrix}$$

Solution

Observability

$$CA = [1 \quad 0] \begin{bmatrix} -1 & 1 \\ 2 & -4 \end{bmatrix} = [-1 \quad 1]$$

$$\mathcal{O} = \begin{bmatrix} C \\ CA \end{bmatrix} = \begin{bmatrix} 1 & 0 \\ -1 & 1 \end{bmatrix} \text{rank}(\mathcal{O}) = 2 = \mathcal{N}_x$$

Characteristic equation

$$A - LC = \begin{bmatrix} -1 & 1 \\ 2 & -4 \end{bmatrix} - \begin{bmatrix} l_1 \\ l_2 \end{bmatrix} [1 \quad 0] = \begin{bmatrix} -1 - l_1 & 1 \\ 2 - l_2 & -4 \end{bmatrix}$$

$$|\lambda I - (A - LC)| = \begin{vmatrix} \lambda + 1 + l_1 & -1 \\ -2 + l_2 & \lambda + 4 \end{vmatrix}$$

$$(\lambda + 1 + l_1)(\lambda + 4) - (-1)(-2 + l_2) = \lambda^2 + (5 + l_1)\lambda + 4(1 + l_1) + l_2 - 2$$

Luenberger Chapter 3 Solutions Exercise 12

Kathleen Armour



Luenberger Chapter 3 Solutions Exercise 12:

This book delves into Luenberger Chapter 3 Solutions Exercise 12. Luenberger Chapter 3 Solutions Exercise 12 is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Luenberger Chapter 3 Solutions Exercise 12, encompassing both the fundamentals and more intricate discussions.

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- Chapter 4: Luenberger Chapter 3 Solutions Exercise 12 in Specific Contexts
- Chapter 5: Conclusion

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Table of Contents Luenberger Chapter 3 Solutions Exercise 12

1. Understanding the eBook Luenberger Chapter 3 Solutions Exercise 12
 - The Rise of Digital Reading Luenberger Chapter 3 Solutions Exercise 12
 - Advantages of eBooks Over Traditional Books
2. Identifying Luenberger Chapter 3 Solutions Exercise 12
 - 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 Luenberger Chapter 3 Solutions Exercise 12
 - User-Friendly Interface
4. Exploring eBook Recommendations from Luenberger Chapter 3 Solutions Exercise 12
 - Personalized Recommendations
 - Luenberger Chapter 3 Solutions Exercise 12 User Reviews and Ratings
 - Luenberger Chapter 3 Solutions Exercise 12 and Bestseller Lists
5. Accessing Luenberger Chapter 3 Solutions Exercise 12 Free and Paid eBooks
 - Luenberger Chapter 3 Solutions Exercise 12 Public Domain eBooks
 - Luenberger Chapter 3 Solutions Exercise 12 eBook Subscription Services
 - Luenberger Chapter 3 Solutions Exercise 12 Budget-Friendly Options
6. Navigating Luenberger Chapter 3 Solutions Exercise 12 eBook Formats
 - ePub, PDF, MOBI, and More
 - Luenberger Chapter 3 Solutions Exercise 12 Compatibility with Devices
 - Luenberger Chapter 3 Solutions Exercise 12 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Luenberger Chapter 3 Solutions Exercise 12
 - Highlighting and Note-Taking Luenberger Chapter 3 Solutions Exercise 12
 - Interactive Elements Luenberger Chapter 3 Solutions Exercise 12

-
8. Staying Engaged with Luenberger Chapter 3 Solutions Exercise 12
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Luenberger Chapter 3 Solutions Exercise 12
 9. Balancing eBooks and Physical Books Luenberger Chapter 3 Solutions Exercise 12
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Luenberger Chapter 3 Solutions Exercise 12
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Luenberger Chapter 3 Solutions Exercise 12
 - Setting Reading Goals Luenberger Chapter 3 Solutions Exercise 12
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Luenberger Chapter 3 Solutions Exercise 12
 - Fact-Checking eBook Content of Luenberger Chapter 3 Solutions Exercise 12
 - 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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