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

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

$$x(k + 1) = \begin{bmatrix} 1.8097 & -0.8187 \\ 1 & 0 \end{bmatrix} x(k) + \begin{bmatrix} 0.5 \\ 0 \end{bmatrix} u(k)$$
  
 $y(k) = \begin{bmatrix} 0.1810 - 0.1810 \end{bmatrix} x(k) + \begin{bmatrix} 0 \end{bmatrix} u(k)$ 

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.

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

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

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.

 Calculate the observer gains for the following system when the desired characteristic equation is (λ + 9)(λ + 10)

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

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  $L = \begin{bmatrix} I_1 \\ I_2 \end{bmatrix}$ .

Sobuttons

Othesen washallisty:

$$CA = \begin{bmatrix} 1 & 0 \end{bmatrix} \begin{bmatrix} -1 & 1 \\ 2 & -4 \end{bmatrix} = \begin{bmatrix} -1 & 1 \end{bmatrix}$$
  
 $\mathcal{O} = \begin{bmatrix} C \\ CA \end{bmatrix} = \begin{bmatrix} 1 & 0 \\ -1 & 1 \end{bmatrix} rank(\mathcal{O}) = 2 = N_{\sigma}$ 

Characteristic equation

$$A - LC = \begin{bmatrix} -1 & 1 \\ 2 & -4 \end{bmatrix} - \begin{bmatrix} l_1 \\ l_2 \end{bmatrix} \begin{bmatrix} 1 & 0 \end{bmatrix} = \begin{bmatrix} -1 - l_1 & 1 \\ 2 - l_2 & -4 \end{bmatrix}$$
  
 $|\lambda \mathbf{I} - (A - LC)| = \begin{bmatrix} \lambda + 1 + l_1 & -1 \\ -2 + l_2 & \lambda + 4 \end{bmatrix}$   
 $(\lambda + 1 + l_1)(\lambda + 4) - (-1)(-2 + l_2) = \lambda^2 + (5 + l_1)\lambda + 4(1 + l_1) + l_2 - 2$ 

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## **Table of Contents Luenberger Chapter 7 Solutions**

- 1. Understanding the eBook Luenberger Chapter 7 Solutions
  - The Rise of Digital Reading Luenberger Chapter 7 Solutions
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Luenberger Chapter 7 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 Luenberger Chapter 7 Solutions
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Luenberger Chapter 7 Solutions
  - Personalized Recommendations
  - Luenberger Chapter 7 Solutions User Reviews and Ratings
  - Luenberger Chapter 7 Solutions and Bestseller Lists
- 5. Accessing Luenberger Chapter 7 Solutions Free and Paid eBooks
  - Luenberger Chapter 7 Solutions Public Domain eBooks
  - Luenberger Chapter 7 Solutions eBook Subscription Services
  - Luenberger Chapter 7 Solutions Budget-Friendly Options

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