

# 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.

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

*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:

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

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  $(\lambda + 5)(\lambda + 10)$

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

*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**

$$\begin{aligned}CA &= [1 \quad 0] \begin{bmatrix} -1 & 1 \\ 2 & -4 \end{bmatrix} = [-1 \quad 1] \\ O &= \begin{bmatrix} C \\ CA \end{bmatrix} = \begin{bmatrix} 1 & 0 \\ -1 & 1 \end{bmatrix} \text{rank}(O) = 2 = N_o\end{aligned}$$

**Characteristic equation**

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

# Luenberger Chapter 2 Problem

**JE Gale**



**Luenberger Chapter 2 Problem:**

This book delves into Luenberger Chapter 2 Problem. Luenberger Chapter 2 Problem is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Luenberger Chapter 2 Problem, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Luenberger Chapter 2 Problem
- Chapter 2: Essential Elements of Luenberger Chapter 2 Problem
- Chapter 3: Luenberger Chapter 2 Problem in Everyday Life
- Chapter 4: Luenberger Chapter 2 Problem in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Luenberger Chapter 2 Problem. This chapter will explore what Luenberger Chapter 2 Problem is, why Luenberger Chapter 2 Problem is vital, and how to effectively learn about Luenberger Chapter 2 Problem.
3. In chapter 2, this book will delve into the foundational concepts of Luenberger Chapter 2 Problem. This chapter will elucidate the essential principles that need to be understood to grasp Luenberger Chapter 2 Problem in its entirety.
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5. In chapter 4, the author will scrutinize the relevance of Luenberger Chapter 2 Problem in specific contexts. The fourth chapter will explore how Luenberger Chapter 2 Problem is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Luenberger Chapter 2 Problem. This chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Luenberger Chapter 2 Problem.

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## **Table of Contents Luenberger Chapter 2 Problem**

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

- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Luenberger Chapter 2 Problem
9. Balancing eBooks and Physical Books Luenberger Chapter 2 Problem
- Benefits of a Digital Library
  - Creating a Diverse Reading Collection Luenberger Chapter 2 Problem
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Luenberger Chapter 2 Problem
- Setting Reading Goals Luenberger Chapter 2 Problem
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Luenberger Chapter 2 Problem
- Fact-Checking eBook Content of Luenberger Chapter 2 Problem
  - 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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