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

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

Characteristic equation

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

# **Luenberger Chapter 2 Exercise Answer**

**Wolfgang Guggemos** 

**Luenberger Chapter 2 Exercise Answer:** 

The Enigmatic Realm of Luenberger Chapter 2 Exercise Answer: Unleashing the Language is Inner Magic

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web in scotland france and england mary was a contemporary of some of the most influential personalities of the renaissance era along with catherine de medici mary tudor and elizabeth i mary was one of a small group of women renaissance queens who in an era still largely dominated by men wielded considerable power

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