

Lecturer:

(Name)

(Signature &amp; Fullname)

Approved by:

(Name)

(Signature, Position &amp; Fullname)

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|                                                                                                                                          |                   |                                |                        |           |           |  |
|------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------------------------------|------------------------|-----------|-----------|--|
| <br>UNIVERSITY OF TECHNOLOGY - VNUHCM<br>FACULTY OF EEE | <b>FINAL EXAM</b> |                                | Semester/Academic year | 2         | 2019-2020 |  |
|                                                                                                                                          |                   |                                | Date                   | 20/7/2020 |           |  |
|                                                                                                                                          | Course title      | Nonlinear and Adaptive Control |                        |           |           |  |
|                                                                                                                                          | Course ID         | 409403                         |                        |           |           |  |
|                                                                                                                                          | Duration          | 90 mins.                       | Question sheet code    |           |           |  |
| Students are allowed to use references, but not mobile phones and laptops                                                                |                   |                                |                        |           |           |  |

(L.O.2.1) (3.5 points) Given a plant:  $G(s) = \frac{10(s+1)}{s^2(s+4)}$  ( )

Design a model reference controller to control the output of the plant to follow the output of the reference model below. Plot the block diagram of the control system after design.

$$G(s) = \frac{4}{(s+2)^2} \quad ( )$$

(L.O.2.4) (4.0 points) Given a discrete plant with the transfer function:

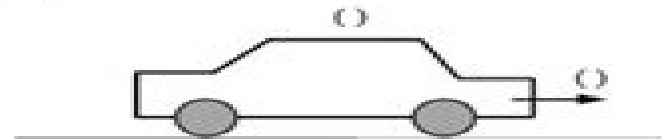
$$G(z) = \frac{Y(z)}{U(z)} = \frac{z}{z^2(z+1)} \quad \left( \text{with } \left| \frac{z}{1} \right| < 1 \right)$$

Design a self-tuning model reference controller such that the output of the plant follows the output of the reference model:

$$G(z) = \frac{Y(z)}{U(z)} = \frac{0.6}{(z-0.4)}$$

Write the expression to calculate the control signal  $U(z)$  in the time domain.

(L.O.2.5) (2.5 points)



Consider a car described by the transfer function:  $G(s) = \frac{Y(s)}{U(s)} = \frac{40}{s(s+1)}$

In which  $U(s)$  is the force generated by the engine,  $Y(s)$  is the position of the car, and  $m$  is the changing mass of the car. Suppose that the mass  $m$  can be measured by using a sensor. Design a PD gain scheduling controller such that the closed loop system has a pair of complex poles with  $\xi = 0.8$  and  $\omega_n = 2$ . Plot the block diagram of the control system after design.

--- END ---

# Answers For Final Physics Exam 2nd Semester

**Paul G. Hewitt**



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