

Lecturer:

(Name)

(Signature & Fullname)

Approved by:

(Name)

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 UNIVERSITY OF TECHNOLOGY - VNUHCM FACULTY OF EEE	FINAL EXAM		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.

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

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

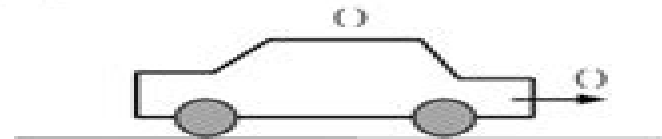
$$G(z) = \frac{Y(z)}{U(z)} = \frac{z}{z^2(z+1)} \quad \left(\text{with } \left| \frac{z}{1} \right| < 1 \right)$$

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

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

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

Raffaela Di Napoli



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