

Answer the following questions:

1. (40 points) A closed-loop sampled-data system is shown below. The sample rate is 10 Hz.



The following equations represent the digital controller and the continuous time plant respectively:

$$u(k) = u(k-1) + 2e(k-1)$$

$$\dot{y}(t) = -5y(t) + 4u(t)$$

- a) What are
- $K(z)$
- and
- $G_p(s)$
- ?

$$u(k) = u(k-1) + 2e(k-1)$$

$$U(z) [1 - z^{-1}] = 2E(z) z^{-1}$$

$$K(z) = \frac{U(z)}{E(z)} = \frac{2z^{-1}}{1-z^{-1}} = \boxed{\frac{2}{z-1}}$$

$$V(s) [s + 5] = 4U(s)$$

$$G_p(s) = \frac{V(s)}{U(s)} = \boxed{\frac{4}{s+5}}$$

- b) The D/A converter is ZOH. What is the closed-loop transfer function
- $M(z) = Y(z)/R(z)$
- of the equivalent discrete time system?

$$\begin{aligned} G(z) &= \frac{z-1}{z} \mathcal{Z} \left[ \frac{G_p(s)}{s} \right] \\ &= \frac{z-1}{z} \mathcal{Z} \left[ \frac{4}{s(s+5)} \right] \\ &= \frac{z-1}{z} \cdot \frac{4}{5} \mathcal{Z} \left[ \frac{1}{s(s+5)} \right] \end{aligned}$$

$$\begin{aligned} G(z) &= \frac{4}{5} \frac{z-1}{z} \frac{z}{z-1} \frac{(1-e^{-5T})}{(z-e^{-5T})} \\ &= \frac{.8 (1-e^{-.5})}{z-e^{-.5}} \end{aligned}$$

$$\boxed{G(z) = \frac{.3148}{z - .6065}}$$

- c) Compute a State Space representation for the equivalent closed-loop discrete time system. That is,

compute matrices  $A$ ,  $B$ ,  $C$ , and  $D$  to represent the closed loop system in the following form:

$$p(k+1) = Ap(k) + Br(k)$$

$$y(k) = Cp(k) + Dr(k)$$

$$\text{where } p(k) = \begin{bmatrix} p_1(k) \\ p_2(k) \end{bmatrix}$$

Let  $p_1(k)$  represent the controller output,  $u(k)$ , and let  $p_2(k)$  represent plant output,  $y(k)$ .

$$p_1(k+1) = u(k+1) = u(k) + 2e(k) = p_1(k) + 2(r(k) - p_2(k))$$

$$p_2(k+1) = y(k) = .6065 p_2(k) + .3148 p_1(k)$$

$$\begin{bmatrix} p_1 \\ p_2 \end{bmatrix}(k+1) = \underbrace{\begin{bmatrix} 1 & -2 \\ .3148 & .6065 \end{bmatrix}}_A \underbrace{\begin{bmatrix} p_1 \\ p_2 \end{bmatrix}(k)}_{p(k)} + \underbrace{\begin{bmatrix} 2 \\ 0 \end{bmatrix}}_B r(k)$$

$$y(k) = \underbrace{\begin{bmatrix} 0 & 1 \end{bmatrix}}_C \underbrace{\begin{bmatrix} p_1 \\ p_2 \end{bmatrix}(k)}_{p(k)} + \underbrace{0}_D r(k)$$

# Paperphysics Final Exam 2014

**Dr. Ranjit Kumar Singh, IAS (AIR-49)**



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