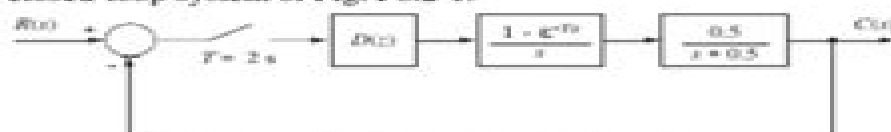


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## CHAPTER 6

**6.2-1.** Consider the closed-loop system of Fig. P6.2-1.



**Figure P6.2-1** System for Problem 6.2-1.

- Calculate and plot the unit-step response at the sampling instants, for the case that  $D(z) = 1$ .
- Calculate the system unit-step response of the analog system, that is, with the sampler, digital controller, and data hold removed. Plot the response on the same graph with the results of part (a).
- For the system of Fig. P6.2-1, let  $D(z) = 1$  and  $T = 0.4$  s. Calculate the unit-step response and plot these results on the same graph used for parts (a) and (b).
- Use the system dc gains to calculate the steady-state responses for each of the systems of parts (a), (b), and (c). Why are these gains equal?

**Solution:**

$$(a) \quad G(z) = \left. \frac{z-1}{z} \right|_{\substack{\left[ \frac{0.5}{s(s+0.5)} \right] \\ \left[ \frac{1 - e^{-Ts}}{s} \right]}} = \frac{z-1}{z} \frac{(1 - e^{-T})}{(z-1)(z - e^{-T})} = \frac{0.6321}{z - 0.3679}$$

$$\frac{G(z)}{1 + G(z)} = \frac{0.6321}{z - 0.2642}$$

$$\frac{C(z)}{z} = \frac{0.6321}{z - 0.2642} = \frac{0.5}{z} + \frac{-0.5}{z - 0.2642}$$

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