



Course: Computer-Controlled Systems (CSE422)

Sheet No.: 4

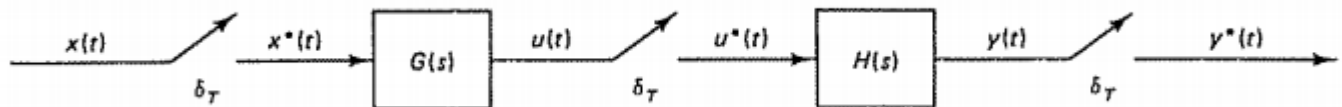
Date: 11/3/2018

Due: 14/3/2018

Time: 2 Hours

Problems:

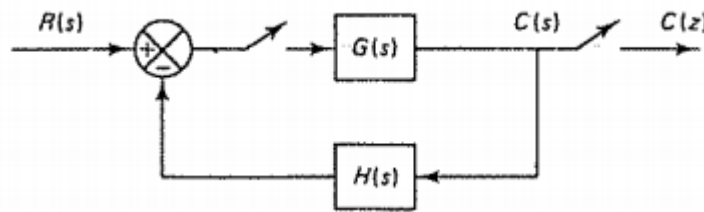
1. Obtain the Z-transform for the function $Y(s) = \frac{1-e^{-Ts}}{s} \cdot \frac{1}{s+1}$.
2. Simplify the following sampled block diagrams:



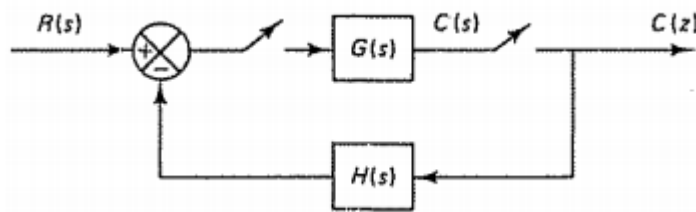
(a)



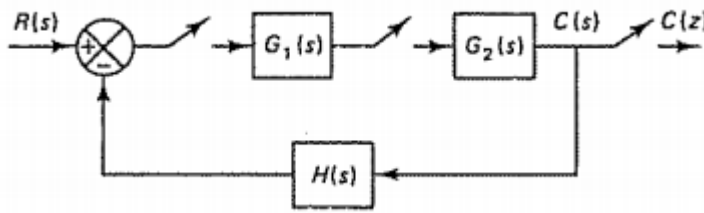
(b)



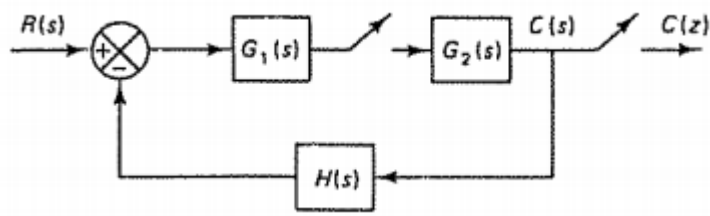
(c)



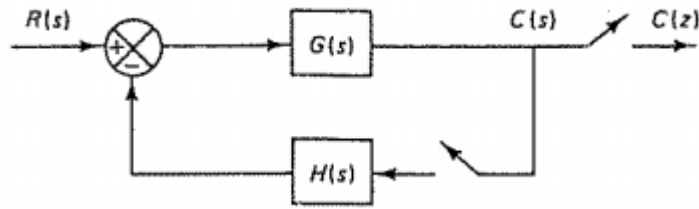
(d)



(e)



(f)



(g)

Homework:

3. Simplify the block diagram in Figure 1 and obtain $C(z)$.

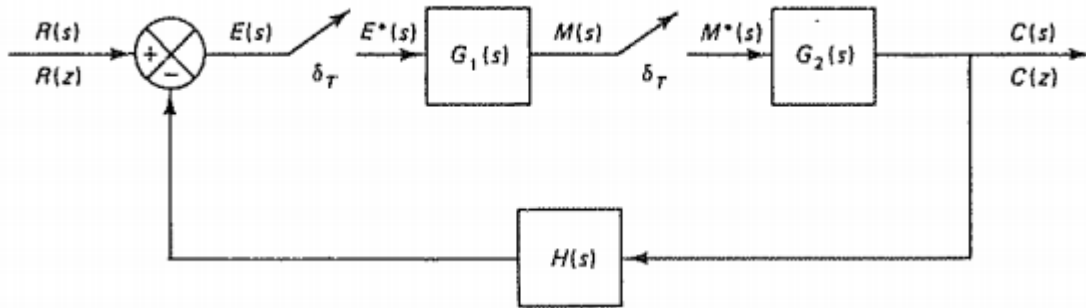


Figure 1