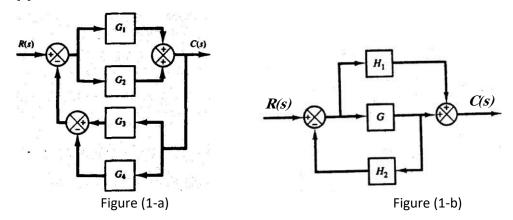
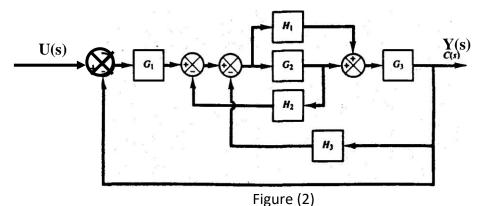


Assignment (2)

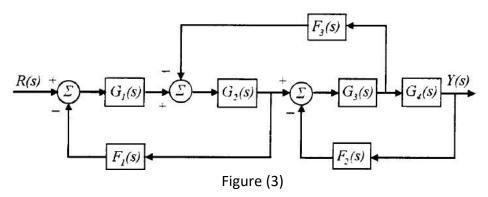
1- For the block diagrams shown in figures (1-a,b), drive the transfer functions relating C(s) and R(s).



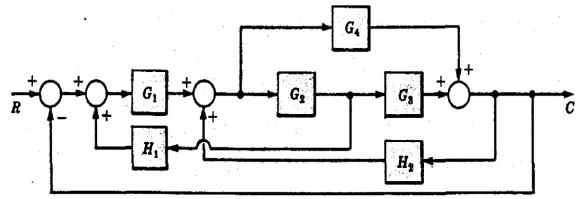
2- For the block diagram shown in figure (2), drive the transfer function relating U(s) and Y(s).



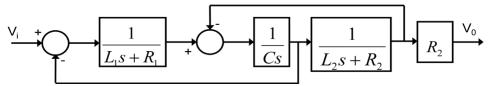
3- For the shown block diagram in figure (3), drive the transfer function relating Y(s) and R(s).



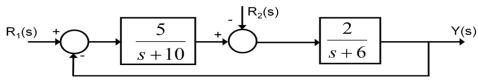
4- For the block diagram shown in figure (4), drive the transfer function relating C(s) and R(s).



5- For the block diagram shown in the following figure, drive the transfer function relating $V_0(s)$ and $V_i(s)$.



- 6- For the multiple-input, multiple-output block diagram shown in figure (6) derive the transfer function when;
- a) Find the transfer function $Y_2(s)/R_1(s)$, $R_2(s)=0$
- b) Find the transfer function $Y_2(s)/R_2(s)$, $R_1(s) = 0$
- c) Express the output Y(s) in terms of the two inputs $R_1(s)$ and $R_2(s)$



- 7- For the following block diagram shown in figure
- I) Find the transfer function C(s)/R(s), N(s) = 0
- II) Find the transfer function C(s)/N(s), R(s) = 0
- III) Express the output C(s) in terms of the two inputs R(s) and N(s)

