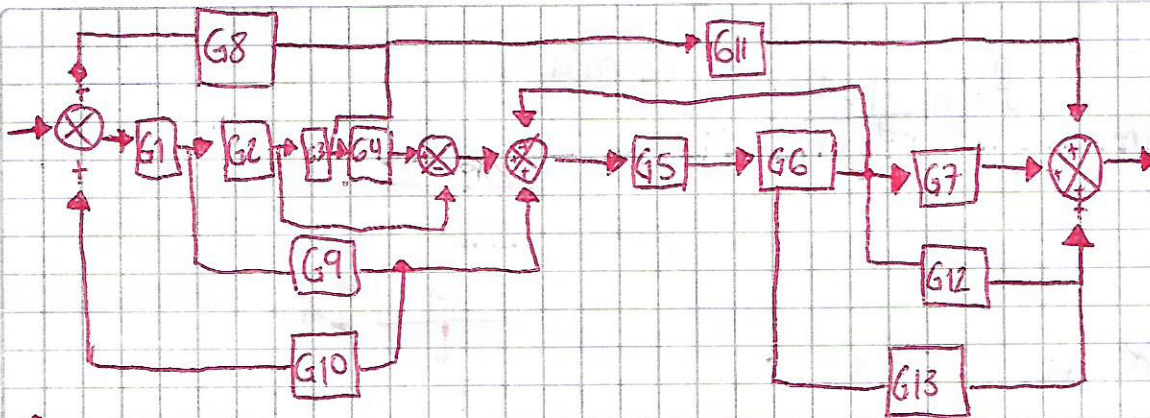


Isidoro Eduardo Pérez J.

24/01/20



Flujo de señales

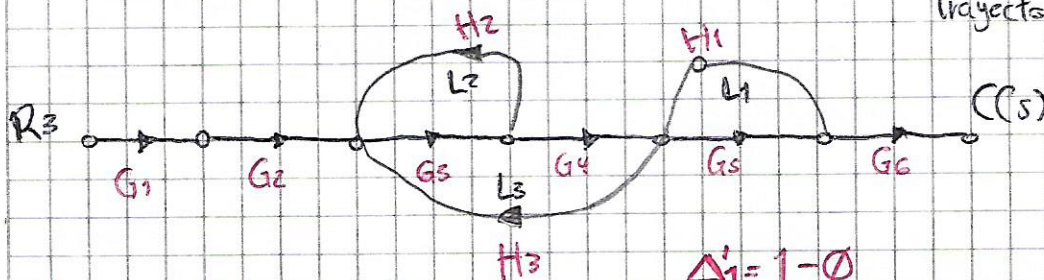
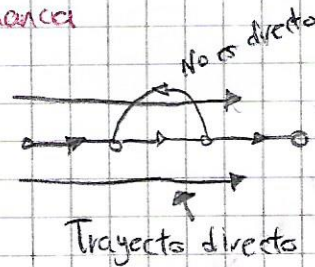
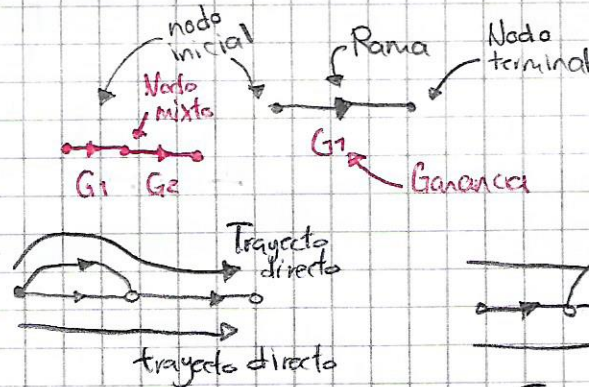
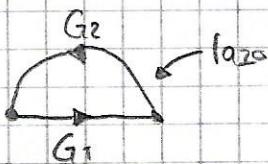
$\Delta_k \rightarrow$ Determinante = $1 - (\sum \text{laços que no se tocan ese trayecto})$

$\Delta \rightarrow$ Coefactor = $1 - (\sum \text{laços que no tocan ese trayecto}) + (\sum \text{de laços disjuntos que no tocan ese trayecto}) - (\sum \text{laços})$

$M_k \rightarrow$ trayecto directo

$Z_k \rightarrow$ lazo

$$G(s) = \frac{\sum M_k \Delta_k}{\Delta}$$



$$M_1 = G_1 G_2 G_3 G_4 G_5 G_6$$

Laços

$$L_1 = G_5 H_1$$

$$L_2 = G_3 H_2$$

$$L_3 = G_3 G_4 H_3$$

Laços disjuntos

$$L_1 L_2 = G_5 H_1 G_3 H_2$$

$$\Delta_1 = 1 - 0$$

$$\Delta = 1 - (L_1 + L_2 + L_3) + (L_1 L_2)$$

$$G(s) = \frac{G_1 G_2 G_3 G_4 G_5 G_6}{1 - G_5 H_1 - G_3 H_2 - G_3 G_4 H_3 + G_5 G_3 H_1 H_2}$$