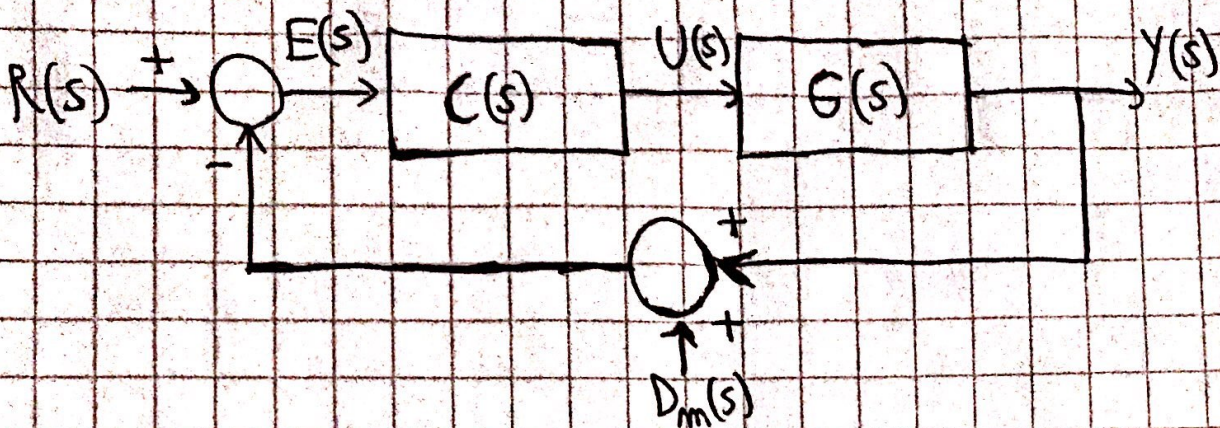


Mini-TAREA 3 - IIC 2685

BENJAMÍN FARIAS V.
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$$\rightarrow E(s) = R(s) - (Y(s) + D_m(s)) = R(s) - Y(s) - D_m(s) \quad (1)$$

$$\rightarrow Y(s) = G(s) \cdot C(s) \cdot E(s) \quad (2)$$

$$(1) \text{ y } (2) \Rightarrow Y(s) = G(s) \cdot C(s) \cdot [R(s) - Y(s) - D_m(s)]$$

$$[1 + G(s) \cdot C(s)] Y(s) = G(s) \cdot C(s) [R(s) - D_m(s)]$$

$$\frac{Y(s)}{R(s)} = \frac{G(s) \cdot C(s) \left[1 - \frac{D_m(s)}{R(s)} \right]}{1 + G(s) \cdot C(s)}$$

$$H(s) = \frac{G(s) \cdot C(s) \left[1 - \frac{D_m(s)}{R(s)} \right]}{1 + G(s) \cdot C(s)}$$