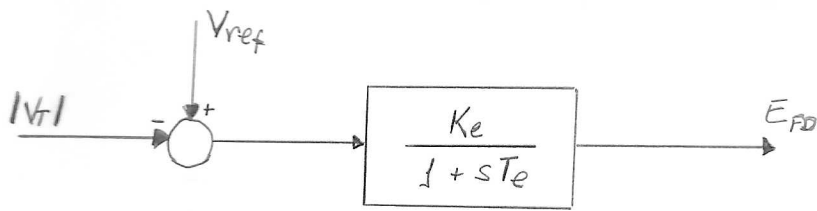


⇒ DIAGRAMA DE BLOCOS FINAL



⇒ EQUAÇÃO DIFERENCIAL DO AVR

$$E_{FD} = \left[\frac{K_e}{1 + sT_e} \right] \cdot (V_{ref} - |V_T|)$$

$$E_{FD} (1 + sT_e) = K_e V_{ref} - K_e |V_T|$$

$$sT_e E_{FD} = K_e V_{ref} - K_e |V_T| - E_{FD}$$

$$\dot{E}_{FD} = \frac{K_e}{T_e} \left[V_{ref} - |V_T| - \frac{1}{K_e} E_{FD} \right]$$

OU

$$\dot{E}_{FD} = \frac{1}{T_e} \left[K_e V_{ref} - K_e |V_T| - E_{FD} \right]$$