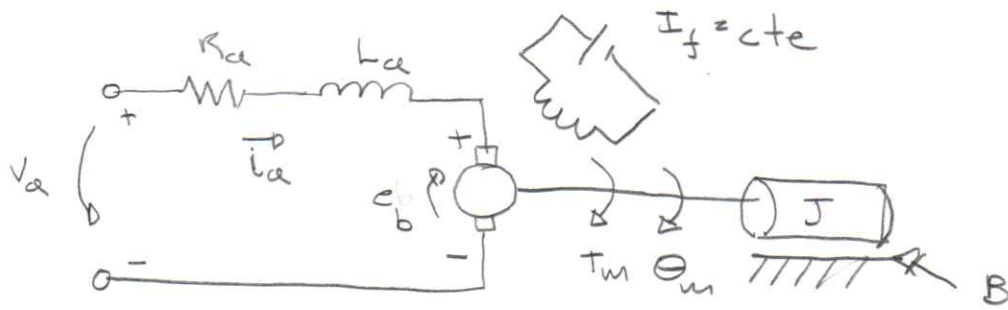


10.

La - P desprogevel



$$V_a = R_a i_a + L_a \dot{i}_a + e_b \quad \begin{cases} T_m = K_I i_a \\ e_b = K_b \omega_m \end{cases}$$

$$V_a = (R_a + L_a) i_a + K_b \dot{\Theta}_m$$

$$\sum T(t) = \gamma \alpha(t)$$

$$\begin{cases} T_m - B \dot{\Theta}_m = \gamma \ddot{\Theta}_m \\ T_m = K_I i_a \end{cases}$$

$$T_m(s) - B s \Theta(s) = \gamma \Theta(s) \cdot s^2$$

$$\frac{\Theta_m(s)}{T_m(s)} = \frac{1}{\gamma s^2 + B s}$$