

Model Ruang Keadaan:

$$\dot{x}_1 = -\frac{R_a}{L_a} x_1 - \frac{K_b}{L_a} x_2 + \frac{1}{L_a} u$$

$$\dot{x}_2 = \frac{K_m}{J} x_1 - \frac{B}{J} x_2$$

$$y = x_2$$

$$A = \begin{bmatrix} -\frac{R_a}{L_a} & -\frac{K_b}{L_a} \\ \frac{K_m}{J} & -\frac{B}{J} \end{bmatrix}$$

$$B = \begin{bmatrix} \frac{1}{L_a} \\ 0 \end{bmatrix}$$

$$C = [0 \quad 1]$$

$$D = [\emptyset]$$