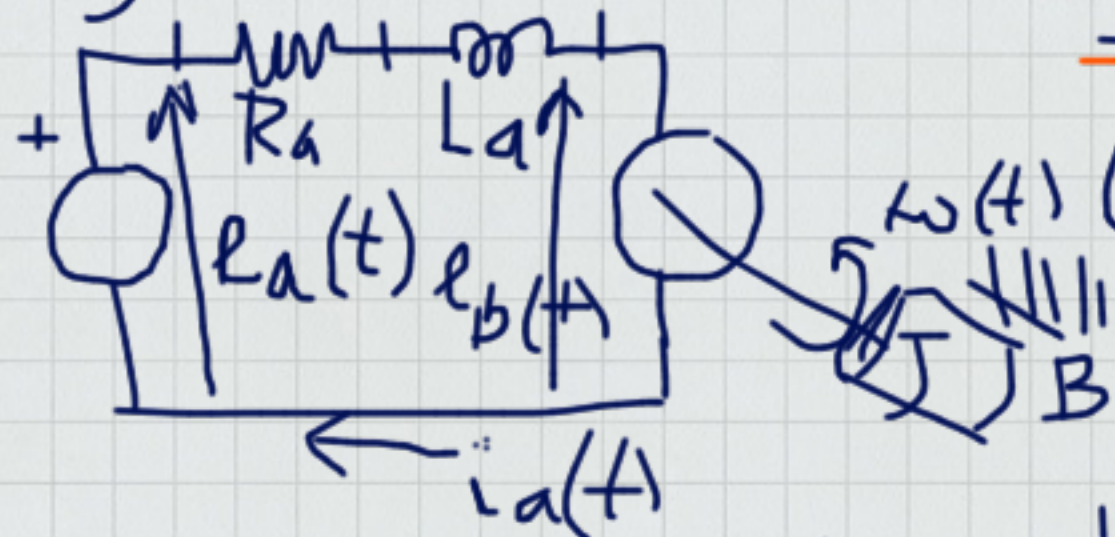


* Model Dinamik



Bagian Elektrik:



Hukum Ohm:

Henry

$$e_a(t) - e_b(t) = R_a i_a(t) + L_a \frac{di_a(t)}{dt}$$

[Volt] [ohm] [Ampere]

Bagian Mekanik:

Hukum Newton

(untuk gerak melingkar)

$$(2) \quad T(t) = J \frac{d\omega(t)}{dt} + B\omega(t)$$

1 RPM $\rightarrow$ rad/sec
 $= \frac{2\pi \text{ rad}}{60 \text{ sec}}$

Torsi
 Torka
 Torque
 [Nm]
 $\text{kg m}^2/\text{sec}^2$

[N] = $\text{kg m}/\text{sec}^2$

Percepatan sudut
 $[\text{rad}/\text{sec}^2]$

B [Nm sec] $\rightarrow \frac{\text{kg m}^2}{\text{rad sec}}$

kecepatan putar [rad/sec]