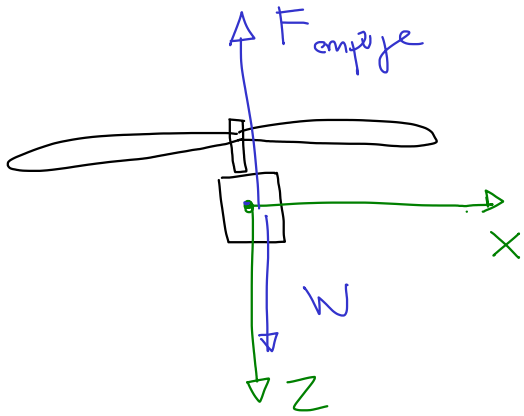


Rotor



NED = North, east, down

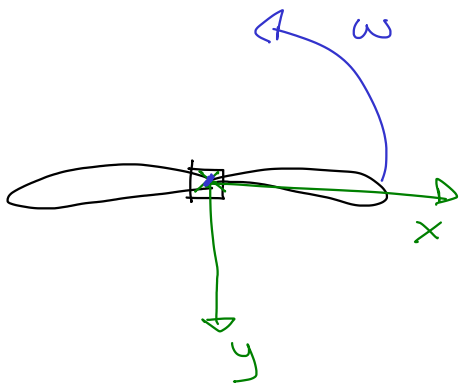
$$F_e = K_f \omega^2$$

Propela

- Motor

- ESC

- Ambiente



$$M = K_m \omega^2$$

Movimiento Translacional

Equilibrio translacional

$$F = \underline{m \cdot a}$$

$$\sum F_i = 0$$

$$F_{\text{total}} = F_e + W$$

$$W = m \cdot g$$

$$F_{\text{total}} = m \cdot \ddot{z}$$

$$\ddot{z} = 0$$

$$W = \underline{10 \text{ N}}$$

$$F_e = ?$$

$$m = ?$$

Equilibrio traslacional

$$F_{\text{total}} = m \cdot \ddot{z} \rightarrow 0$$

$$F_{\text{total}} = 0$$

$$F_{\text{total}} = F_e + W = 0$$

$$-F_e = W \quad \leftarrow$$

$$F_e = -W = -10 \text{ N}$$

$$W = -F_e$$

$$m \cdot g = -F_e$$

$$m = \frac{-F_e}{g} = \frac{-(-10) \text{ N}}{9.8 \text{ m/s}^2} = \frac{10}{9.8} \frac{\text{N}}{\text{m/s}^2}$$