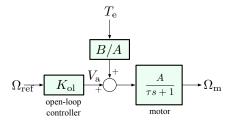
Disturbance Rejection

Goal: maintain $\omega_{\rm m} = \omega_{\rm ref}$ in steady state in the presence of constant disturbance.

Open-loop:



- the controller receives no information about the disturbance $\tau_{\rm e}$ (the only input is $\omega_{\rm ref}$, no feedback signal from anywhere else)
- so, let's attempt the following: design for no disturbance (i.e., $\tau_{\rm e}=0$), then see how the system works in general