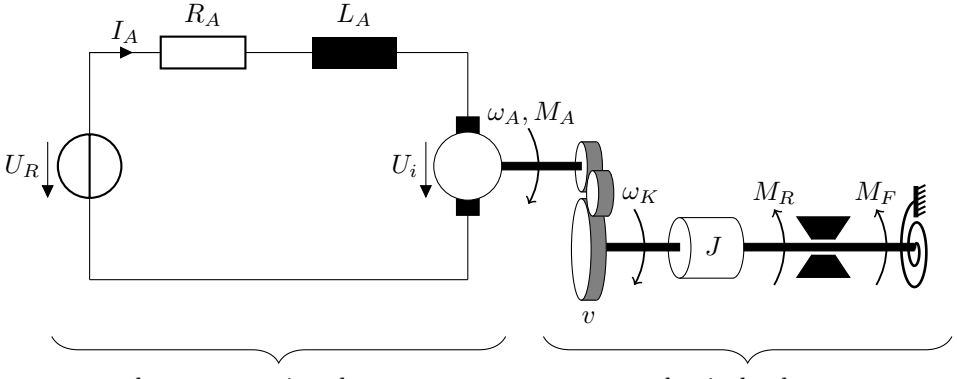
I_A
R_A
L_A
U_R
U_i
ω_A, M_A
ω_K
M_R
M_F
J
v
electromagnetic subsystem
mechanical subsystem