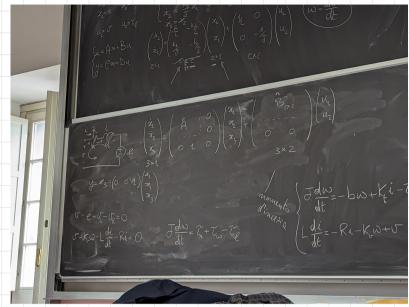


$$y = w = x_2 = (0 \ 1)$$
 $\begin{pmatrix} x_1 \\ x_2 \end{pmatrix} + (0 \ 0) \begin{pmatrix} u_1 \\ u_2 \end{pmatrix}$ ~ 0 $y = \subseteq x + \supseteq y$

Se voglio considerare anche la **posizione angolare** devo aggiungere una variabile di stato:

$$\dot{\chi}_3 = \chi_2$$
 Poiche $\left(\dot{\chi}_3 = \omega = \frac{d\theta}{d\epsilon}\right)$
Non derivata!

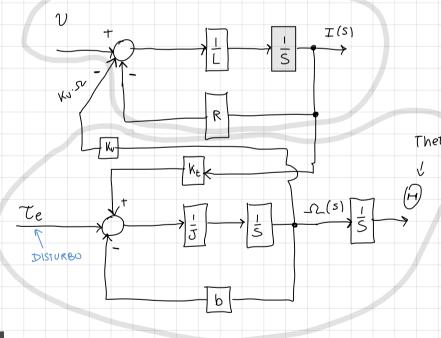




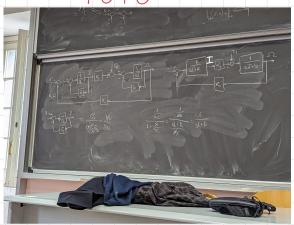
Parte elettrica

SCHEHA A BLOCKHI

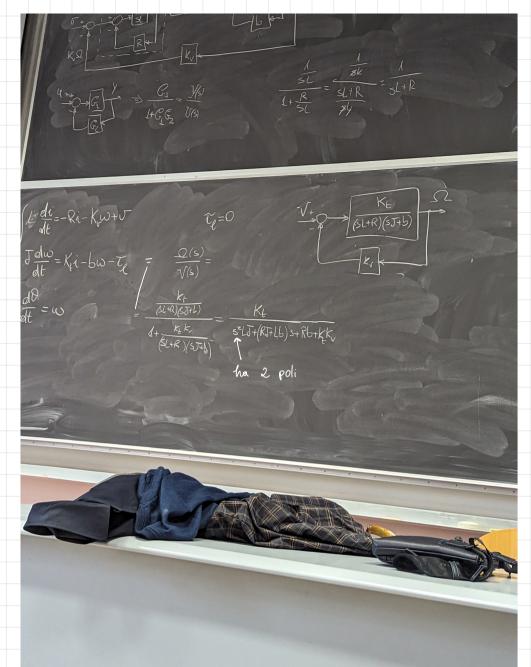
$$\begin{cases} Li = -Rx - K_v w + v \\ Jw = K_t - bw - Te \\ \theta = w \end{cases}$$



FOTO



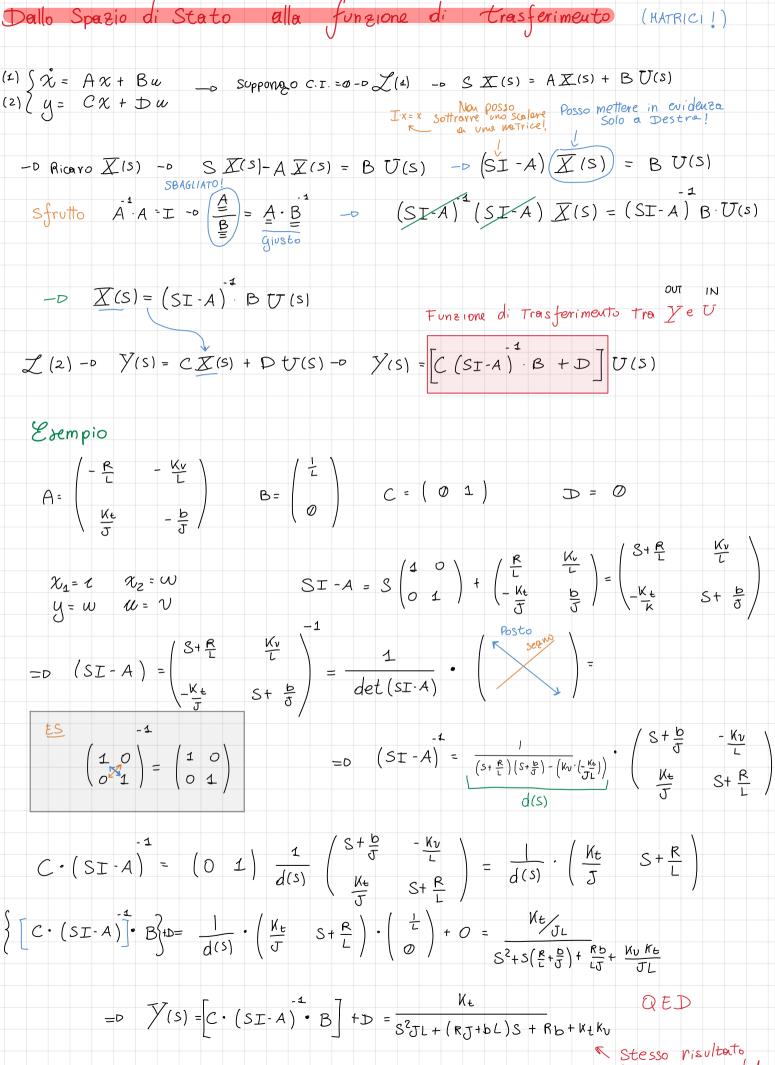
Parte Heccanica



* Trasformata 34:23

Schemo a blocchi lez 11

FOTO Schemo a blocch: con GOTO e FROM



attenuto nel caso del motore elettrico

