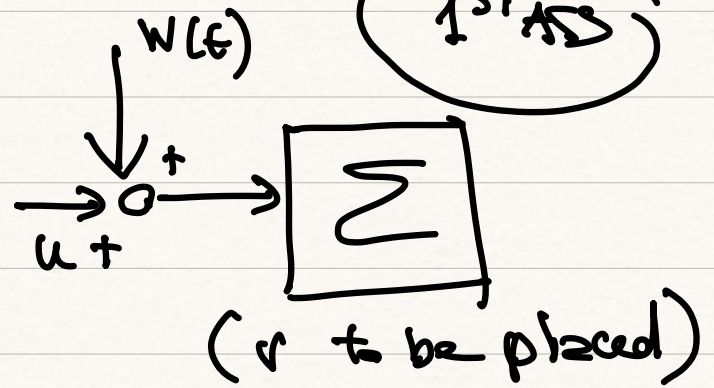


EXTENDED ESTIMATOR - EXTRA COMMENTS

Setting

Noise $w(t)$ (REJECT)

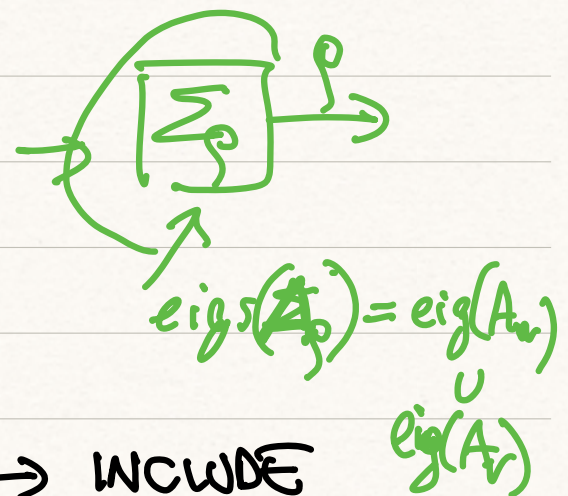
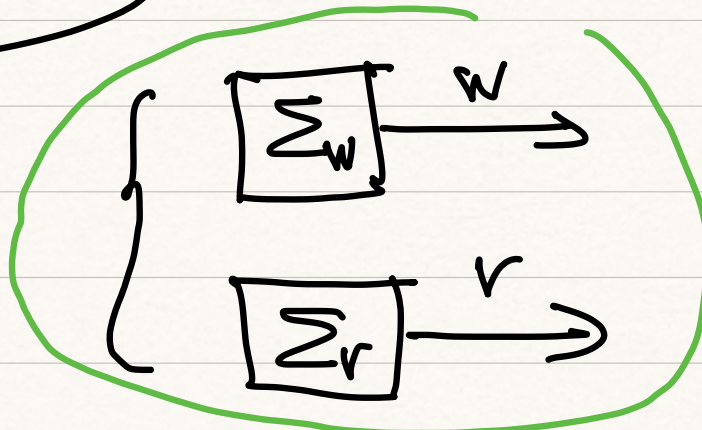
Reference $r(t)$ (TRACK)



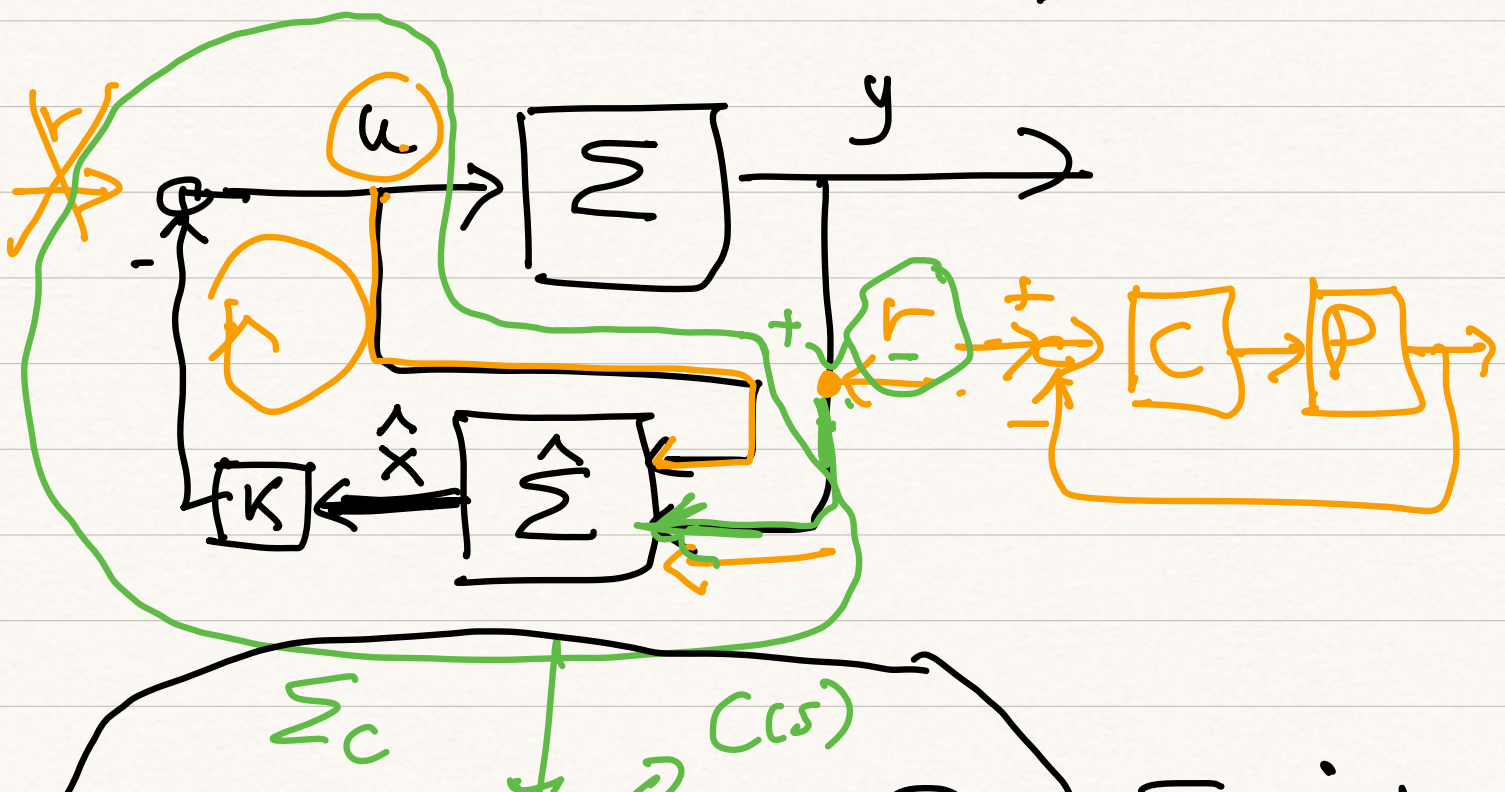
1st ASS

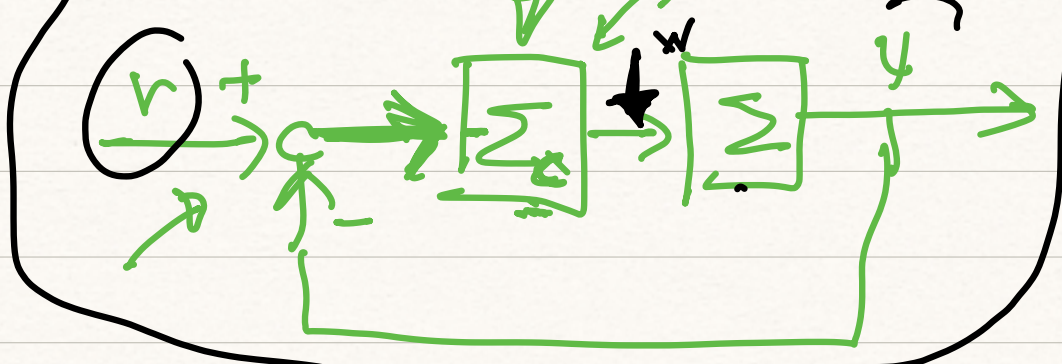
2nd ASS

\exists examples



STRATEGY (u IMP) \rightarrow INCLUDE $\Sigma_{r,w}$ in "controller"





$$\Sigma_p \quad x_p = A_p x_p$$

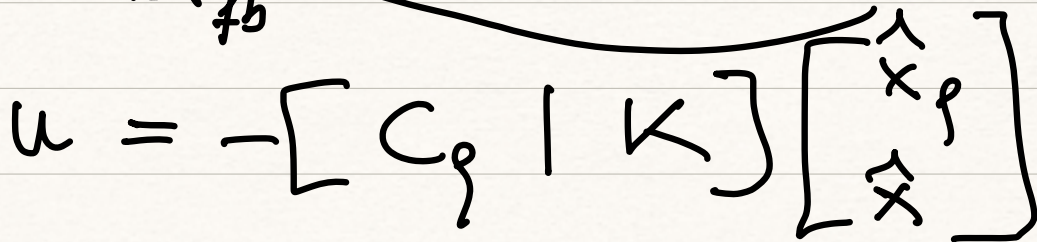
$$\textcircled{p} \Rightarrow y_p = C_p x_p$$

$$- \begin{pmatrix} \dot{\hat{x}}_p \\ \dot{\hat{x}} \end{pmatrix} = \begin{bmatrix} A_p & 0 \\ B C_p & A \end{bmatrix} \begin{bmatrix} \hat{x}_p \\ \hat{x} \end{bmatrix}$$

$$+ \begin{bmatrix} L_1 \\ L_2 \end{bmatrix} e_y + \begin{bmatrix} 0 \\ B \end{bmatrix} u$$

$$- \hat{p}(t) \quad u = - \begin{bmatrix} C_p & K \end{bmatrix} \begin{bmatrix} \hat{x}_p \\ \hat{x} \end{bmatrix}$$

$$\begin{pmatrix} \dot{\hat{x}}_p \\ \dot{\hat{x}} \end{pmatrix} = \begin{pmatrix} A_p & 0 \\ B C_p & A \end{pmatrix} \begin{pmatrix} \hat{x}_p \\ \hat{x} \end{pmatrix} + \begin{pmatrix} 0 & 0 \\ B C_p & B K \end{pmatrix} \begin{pmatrix} \hat{x}_p \\ \hat{x} \end{pmatrix} + L e_y$$



same situation of IMP in "S"

$$\text{Poles}(r) \subseteq \text{eigs}(A_p) \stackrel{r = \text{poly} \frac{U(s)}{E(s)}}{\parallel} \text{poles}(C(s))$$

By contr.