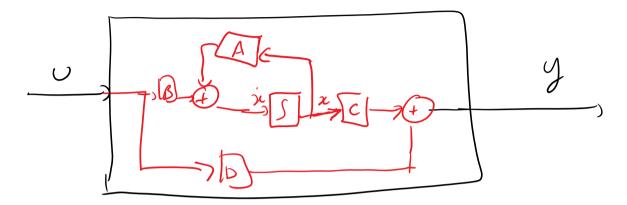
2020.09.28 Cours 8

lundi 28 septembre 2020



$$\tilde{n} = \beta(x_i v)$$
 $\rightarrow (x_e, v_e) \rightarrow \beta(x_e, v_e) = 0$
 $\tilde{n} = \tilde{n} \in X_e$ $\tilde{n} = \tilde{n} \in X_e$

$$\dot{\chi} = \ddot{\chi} + \dot{\chi}_e = \beta(\chi_e) = \beta(\dot{\chi}_e) = \beta(\dot{\chi}_e) = \beta(\chi_e) + \frac{\partial \beta}{\partial n} = \frac$$

$$\hat{x} = \frac{\partial \ell}{\partial x} \Big|_{x = x_e}$$

$$v = v_e$$

$$v = v_e$$

$$v = u_e$$

$$v = u_e$$

$$\frac{E_{X}}{x_{1}} = \frac{\lambda_{1}(1-\lambda_{1})}{x_{1}}$$

$$|x_1 = x_1(1-x_1)|$$
Equilibrium pout: $y_1(1-x_1) = 0$

$$y_2 = 1$$

$$y_3 = 1$$

Around
$$({}^{\circ}\iota^{\circ})$$

$$\frac{\tilde{\chi}_{1}}{\tilde{\chi}_{1}} = \tilde{\chi}_{1}$$

$$\frac{\tilde{\chi}_{1}}{\tilde{\chi}_{1}} = \tilde{\chi}_{1}$$

$$\frac{\tilde{\chi}_{2}}{\tilde{\chi}_{1}} = \tilde{\chi}_{1}$$

Acound
$$(1,1)$$
: $\ddot{\chi}_1 = -\chi_1$
 $\ddot{\chi}_1 = -\chi_1$
 $\ddot{\chi}_1 = -\chi_1$
 $\ddot{\chi}_1 = -\chi_1$

$$x_{p} = \phi(t_{l}h_{0})S(t)$$

$$\dot{x}_{p} = \dot{\phi}(t_{l}h_{0})S(t) + \dot{\phi}(t_{l}h_{0})\dot{s}(t) = A x_{p} + B \circ (t_{l}h_{0})$$

$$= A(H_{0}a(t_{l}h_{0})S(t)) + \dot{\phi}(t_{l}h_{0})\dot{s}(t) = A ds + B \circ (t_{l}h_{0})$$

$$\dot{s}(t_{l}) = \dot{\phi}'(t_{l}h_{0})B(t_{l}) \circ (t_{l}h_{0})$$

$$S(H) = \int \phi'(z, h) B(z) o(z) dz$$

$$= \int \phi(h, z) B(z) o(z) dz$$

$$x_p = \phi S = \phi(h, h) \int ----$$

$$2p = \int \phi(h, z) B(z) o(z) dz$$
general expression of the solution:

$$n(1) = \phi(f, f_3) x(f_3) + \int_{t_3}^{t} \phi(f, z) \beta(z) v(z) dz$$

Ly=
$$(x)$$
 $y = (x)$
 $y = (x)$

$$C_1 = C_T$$

$$= C (\rho I - A)' B.$$

$$C_{1}(\rho T - A_{1})^{-1}B_{1}$$
 $C_{T}(\rho T - A_{1})^{-1}+B_{2}$
 $C_{T}(\rho T - T'AT)^{-1}+B_{3}$
 $C_{T}(\rho T - T'AT)^{-1}+B_{3}$
 $C_{T}(\rho T - T'AT)^{-1}+B_{3}$
 $C_{T}(\tau - T'(\rho T - A))^{-1}+C_{T}(\tau - B)$
 $C_{T}(\tau - T'(\rho T - A))^{-1}+C_{T}(\tau - B)$
 $C_{T}(\tau - T'(\rho T - A))^{-1}+C_{T}(\tau - B)$

From continuous-Time SS to discute-Time SS.

$$\frac{U(4)}{2} = \frac{1}{2} \frac{1}{2}$$

(i)
$$x(t) = e^{A(t-h)} x(h) + \int_{t_0}^{t} e^{A(t-z)} B u(z) dz$$

(t=th... then=\left(\text{to}) = \left(\text{to}) = \left(\text{to}) = \left(\text{to}) = \left(\text{to}) \\
\tau(\left(\text{to}) = \text{e} \text{x(h)} + \int \\
\tau(\left(\text{to}) = \text{e} \text{x(h)} + \int \\\
\text{th} \\
\text{Ad}
\\
\text{Te} \\
\text{ATE} \\
\text{AP} \\
\text{Te} \\
\text{Te} \\
\text{AP} \\
\te