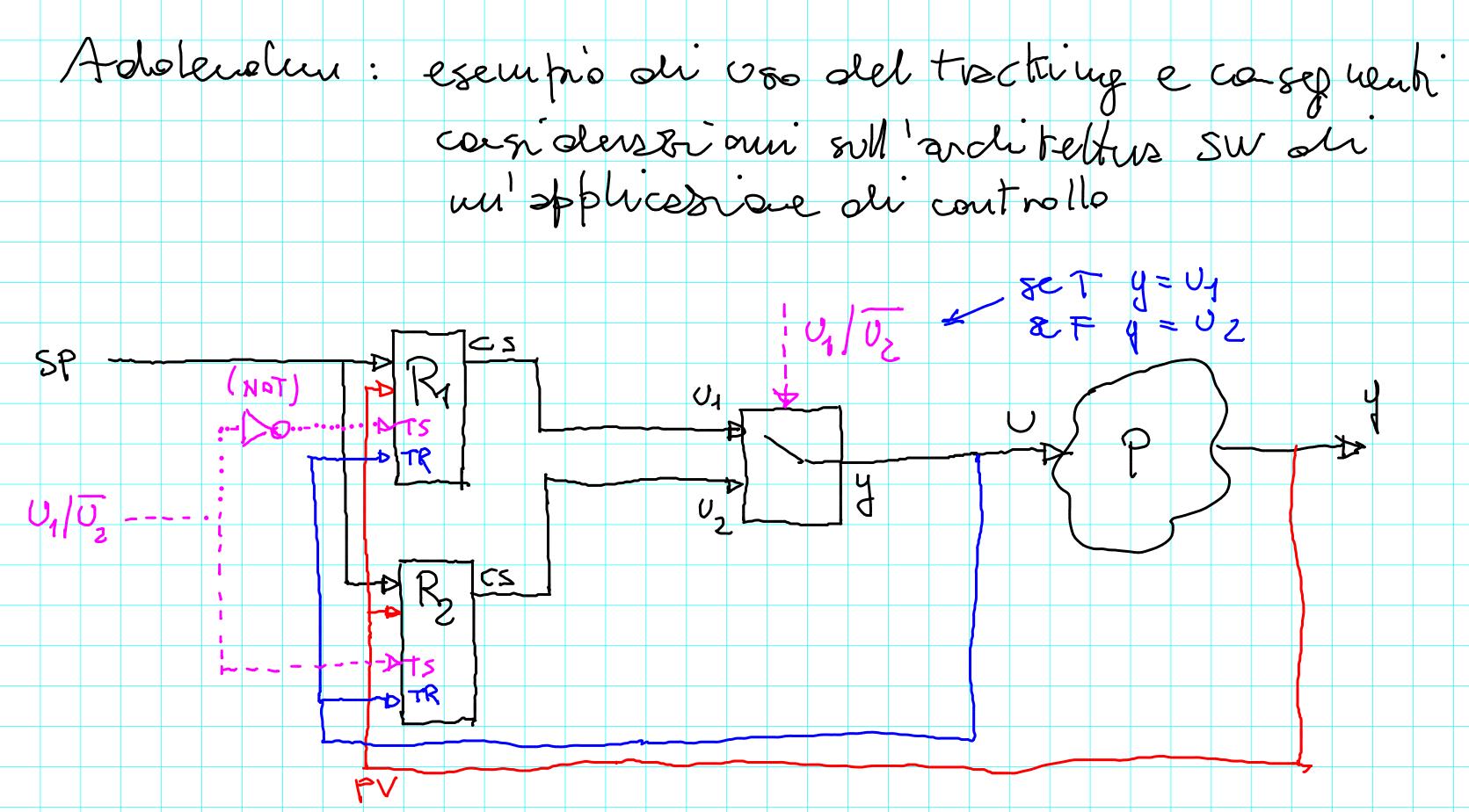
18/05/2020 Adolendin: pusobspro vs. pusobspro generalizz 2 to TC) G(S) = [7 1+.-51 1+.---) Vale 1 per s = 0 • Se g = 0 11 (pusolopro) e 5 (0) NB se sistem AS e spolico U = T costsete L) 31 y = 6(0) 0 = 4047 ese 8 Co G(o) = 0 + 17 e uan sele l'interprétarie · Se g > 0 G (0) publi signi Ficto M = hu 53 G(5) prodogno peush 222to, Tito upsle us con 5 (1) G(z) = (z - 1)0

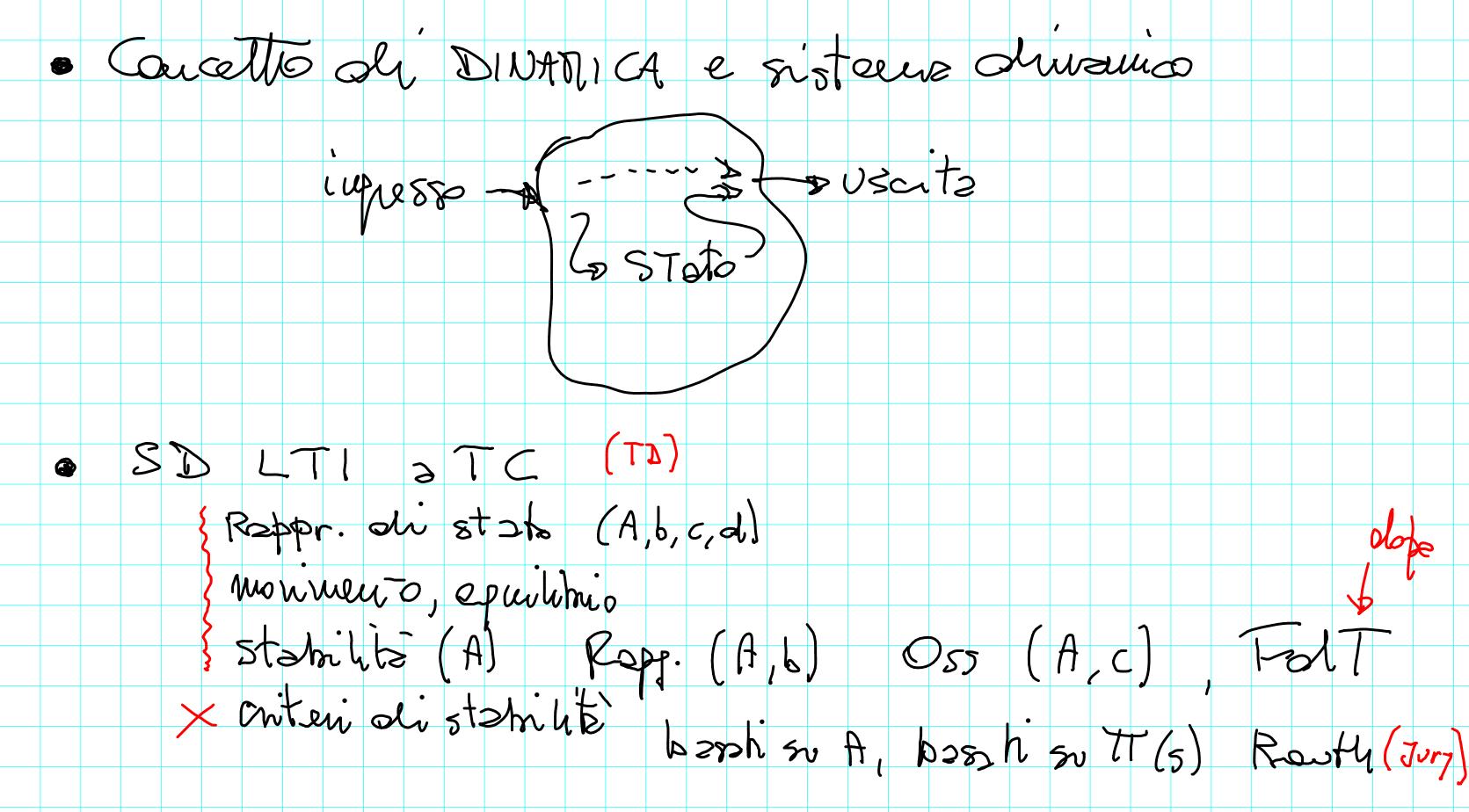


Ande intocking se vsisers (come connere) be feet.

non minins con stato deto de v col e possoshi

ur repolatore dere terere approuch i volskir vettore lu generale un regolatore è costruite con: LoGICA Tetedi Peh... intherent Disp 1EC61131 1EC 61499 Switch CZKOD School Flato 0(K) Modelle

Presilogo Minumo del conso · Problems del controllo => concetto di Feedback Posse ottenere insepurents 87 e reiestras distarbi NB Feedback of reschive strosch, 100 vud dire de non posse 4 sent in pre, get évents (escupio Diace D): rel contesto della teoria del centrallo Feedback NON vod alive met proscrive redital. = sperticip du ettecco NB2: "predire, 2 volte e visclios a viclible u modelle + preciso ou prello che some per Fore un R in retrosèrione



• 5D NL 3TC epuilibre los statulits, huerizazione · SD retrossionsh 27C surstisi di stabilità (Nyquist, Boole) AC ossevulo AA (5 chem 2 blo colu) Suitesi des controllo relle ib. di Bode (cerro 2 semprici con con Priest shile) • SD LT12TD =) discretizzzione
=) restizzzione dipitale dei repostari (55....

Eserne 1) Tremite browsen au sorréplieux 2) Ok webcen interpots, meglio se suete un zo disposition per eventusli interessioni uno a uno 3) Esse 5 tho in parte di 10se a violeon l in parte de cose de Fère su corte e tradune in polf de contrere 4) App der Post (es. 0 me Drie) 10 + 10/2 TEL FOGLI NON SI LEGSONO 5) Miniservo ovali 4 dei con Fenney 2 centrae

D>10 11 50 LT1 2 TC $Sa = \begin{bmatrix} -2 & 0 \\ 1 & -4 \end{bmatrix} m + \begin{bmatrix} 1 & 1 \\ 1 & 1 \end{bmatrix} v$ 2) strett. propro? 3) Colcobre y(t) Ejo $\int Q = L^2 3 \int D$ $\sigma(0) = \begin{bmatrix} 1 \\ 1 \end{bmatrix} \cdot U(t) = Scelt)$ 1) AS: outo clon -2, -4 oubedue on Re 40 2) 50 perche d=0

3 la Faire in sendedue i modi noti 32) Colcolo y con ett e yr con b Fott · Avtobler du A: $s_1 = -2$, $s_2 = -4$ · Actoretton: $S_{\lambda})\begin{bmatrix} -2 & 0 \end{bmatrix} \begin{bmatrix} z_1 \\ z_2 \end{bmatrix} = -2 \begin{bmatrix} z_1 \\ z_2 \end{bmatrix} = -2 \begin{bmatrix} z_1 \\ z_2 \end{bmatrix} = 2 \begin{bmatrix} z_1 \\ z$ $\begin{cases} 2_1 = 2z_2 \\ 1 \\ 2z_3 \end{cases} = \begin{bmatrix} 1 \\ 1 \end{bmatrix}$

$$5z$$
) $\begin{cases} z_1 = 0 \\ + z_2 \end{cases} = \begin{bmatrix} 0 \\ 1 \end{bmatrix}$
• M. dispossive zente T e so inverse
$$T = \begin{bmatrix} 2 & 0 \\ 1 & 1 \end{bmatrix} \Rightarrow T^{-1} = \underbrace{1}_{2} \begin{bmatrix} 1 & 0 \\ -1 & 2 \end{bmatrix} = \begin{bmatrix} 1/2 & 0 \\ -1/2 & 1 \end{bmatrix}$$

$$e^{AE} = e^{-20} \int_{-4}^{4} f = \int_{-4}^{4} \int_{-4}$$

$$= \begin{bmatrix} 2 & 0 \end{bmatrix} \begin{bmatrix} 0 & -2t & 0 \end{bmatrix} \begin{bmatrix} 1/2 & 0 \end{bmatrix} = \cdots \begin{bmatrix} 0 & -2t & 0 \\ -1/2 & 1 \end{bmatrix} = \cdots \begin{bmatrix} 1/2 & -2t & -1/2 & -1/2 & 1 \end{bmatrix}$$

•
$$m_2(t) = e^{At} m_2(0) = [n] [1] = [1 e^{-2t} + 1 e^{-4t}] t > 0$$
• $y_1(t) = c m_2(t) = [23] [4] = \frac{7}{2} e^{-2t} + \frac{3}{2} e^{-4t} t > 0$
• $color y = con b = [23] [5+2 0] [1]$
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$$()(5) = \frac{1}{5} \Rightarrow (5) = G(5)(5) = \frac{55 + 17}{5(5 + 4)}$$

Herriside:

$$\propto (5+2)(5+4) + \beta 5(5+4) + \beta 5(5+2) = 55+17$$

$$S=0$$
: $8 \times = 17$ $\Rightarrow \times = 17/8$

$$S = -4 : 8 \gamma = -3 \Rightarrow \gamma = -3/8$$

$$= \frac{17}{4} + \frac{17}{8} = \frac{17}{8} + \frac{7}{4} = \frac{3}{8} = \frac{4}{8} = \frac{7}{4} = \frac{17}{8} = \frac{7}{4} = \frac{2}{8} = \frac{3}{8} = \frac{4}{8} = \frac{17}{8} = \frac{7}{8} = \frac{2}{8} = \frac{17}{8} = \frac{17}{$$

Acolo tutto il monnento tramite TDL 5n = An + bv $\begin{cases} 5X(5) - \alpha(0) = f(X(5) + b)(5) \\ y = cn + olv \end{cases}$ $\begin{cases} Y(5) = c \times (5) + olv \end{cases}$ $\Rightarrow X(s) = (sI-A)^{-1} x(o) + (sI-A)^{-1} bO(s)$ $Y(5) = c(5I-A)\pi(0) + 6(5)U(5)$ del Modey del MF dig Applicano M'eserciosis

$$Y(6) = c(SI-A)^{-1} \partial z(0) + G(5) U(5)$$

$$= [z 3] [S+2 0] [1] + \frac{5S+12}{(5+2)(5+4)} S$$

$$= 1 [z 3] [S+4 0] [1] + \frac{1}{2} S$$

$$= \frac{1}{1} [z 3] [S+4 0] [1] + \frac{1}{2} S$$

$$= \frac{5S+12}{(5+2)(5+4)} (1+1) S$$

$$= \frac{(5+1)(5S+12)}{(5+2)(5+4)}$$

$$= \frac{(5+1)(5S+12)}{(5+2)(5+4)}$$