

① DAZ GRAFICO: $y_{00} = 1,5 \rightarrow K = \frac{1,5}{J} = 0,5$

5.525

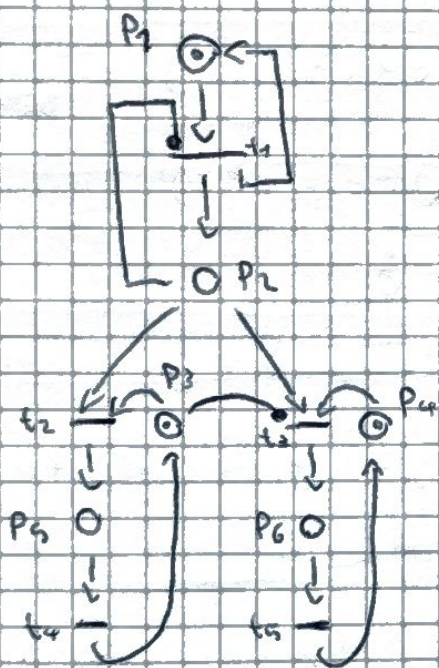
Prog. PID con stab. asint., err. nullo a regime, T. assest. simile ad angolo aperto, trans. no oscillante

$P_{ref}(s) = \frac{K}{1 + T_s} e^{-\theta}$ mod. di R.H. $\xrightarrow{\text{DA TAB.}}$ $K_{RP} = 1.2 \left(\frac{\theta}{T}\right)^{-1}$, $\frac{T_i}{T} = 2 \left(\frac{\theta}{T}\right)$, $\frac{T_d}{T} = 0.5 \left(\frac{\theta}{T}\right)$
 \downarrow \downarrow \downarrow
 $K_P = 5.28$ $T_i = 5$ $T_d = 1.25$
 \downarrow \downarrow
 $K_i = \frac{K_P}{T_i} = 1.056$ $K_d = K_P T_d = 6.6$

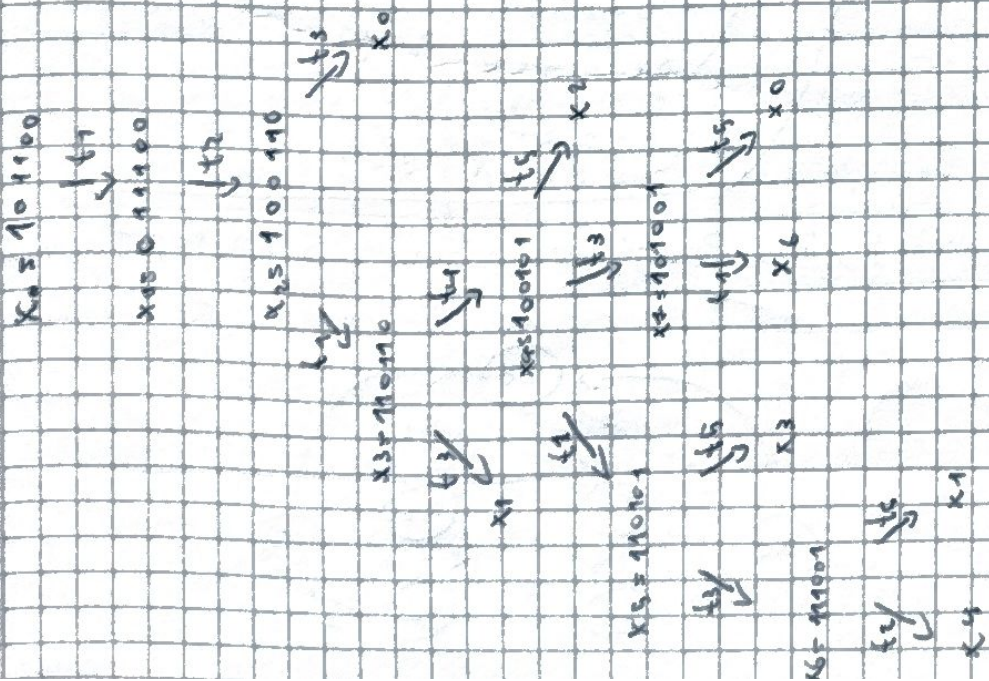
③

- ENTRATA UNITARIA

M₁ SE ~~LIBERA~~ LIBERA E M₂ OCUPATA



$$x_0 = s(1 \ 0 \ 1 \ 1 \ 0 \ 0)^T$$



$$R(P_n) = \begin{pmatrix} 1 & 0 & 1 & 0 & 0 & 1 \\ 1 & 1 & 1 & 0 & 0 & 1 \\ 1 & 1 & 0 & 1 & 0 & 1 \\ 1 & 0 & 0 & 1 & 0 & 1 \\ 1 & 1 & 0 & 1 & 1 & 0 \\ 1 & 0 & 0 & 1 & 1 & 0 \\ 1 & 1 & 1 & 0 & 1 & 0 \\ 1 & 0 & 1 & 0 & 1 & 0 \end{pmatrix}$$