Hoiron Schmeider Bordoso

$$\frac{\sqrt{A - X(S)}}{10} + \frac{\sqrt{A - VB}}{10 + 5B} + \frac{\sqrt{A - VB}}{915} = 0$$

(I)
$$VA\left(\frac{1}{10} + \frac{1}{10} + \frac{1}{55} + 0.15\right) - VB\left(\frac{1}{10} + \frac{1}{55} + \frac{3.20.015}{20+10}.015\right) = \frac{1}{10}X(5)$$

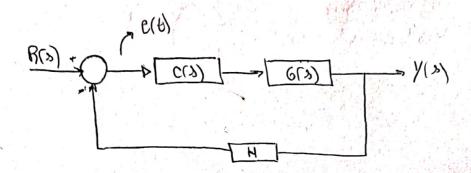
$$\frac{V_{B}-V_{A}}{20+10} + \frac{V_{B}}{1+10+\frac{1}{2}\lambda} + \frac{V_{B}-V_{A}}{10+5\lambda} = 0$$

$$(II) - VA \left(\frac{1}{10} + \frac{7}{5s} \right) + VB \left(\frac{1}{20+10} + \frac{1}{11+\frac{1}{2}s} + \frac{1}{10} + \frac{1}{5s} \right) = 0$$

$$\begin{cases} AV_{A} + BV_{B} = C \\ -V_{A}D + V_{B}E \end{cases} \sim \begin{cases} G = \frac{C \cdot F}{AE} + B \\ Y = V_{B} \cdot F \end{cases} \sim \begin{cases} G = \frac{60x^{2} + 123x + 6}{280x^{3} + 636x^{2} + 319x + 6} \end{cases}$$

Laleulo do ER otiones do teorenna do votor final com
$$C = \frac{1}{2}$$
 $V(\omega) = \lim_{\lambda \to \infty} X \cdot \frac{1}{\lambda} \left(1 - \frac{60\lambda^2 + 123\lambda + 6}{880\lambda^4 + 636\lambda^3 + 379\lambda^2 + 134\lambda + 6} \right) = 1$
 $V(\omega) = 1$
 V

Métable de compreção protico do contradodor



Atrovés de colado do Piol, termos que o controlodor gemerico tem a forma:

$$M(t) = K\left(e(t) + \frac{1}{t_i}\int_{0}^{t} e(3) \cdot d3 + T d \frac{de(t)}{0/t_i}\right)$$

Domtrolodor P-1 e-obfiniolo como

Comsideramdo um controlador igual a:

$$C(s) = 1 + (1 + \frac{1}{1 \cdot s}) \qquad \text{Vin} = -C \frac{d(\text{Vaut} - \text{Vin} \cdot \text{R8})}{dt}$$

$$KP = 1 \qquad \uparrow \qquad \text{Olt-Vin} \cdot \text{R8} = d\text{Vaut}$$

$$Vc = \text{Vaut} - \text{Vin} \cdot \text{R8}$$

$$Vin = C \cdot dn$$

$$Vin = C \cdot dn$$

$$\overline{\partial t}$$

$$Vin = C \cdot dn$$

$$\overline{\partial t}$$