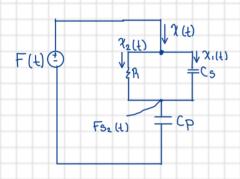


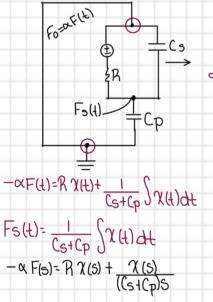
## Función de transferencia (Análisis apagando Fo)



$$\chi(t) = \chi_1(t) + \chi_2(t)$$

χ, (+)=Cs <u>d[F(+)-F=(+)]</u>

$$\chi_2(t) = F(t) - F_3(t)$$



Fs(s) = 1(s) ((s+Cp)s

 $F(s) = -\frac{R((s+Cp)s+1)}{\alpha((s+Cp)s)} \gamma(s)$ 

$$F_{52}(t)$$

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$$\frac{F_s(s)}{F(s)} = -\frac{\alpha}{\Re (c_s + c_p)s + 1}$$

$$\begin{array}{lll} & \text{Cp } \frac{dF_{S}(t)}{dt} = \text{Cs } \frac{d[F(t) - F_{S}(t)]}{dt} + \frac{F(t) - F_{S}(t)}{R} \\ & \text{Cp } S F_{S}(s) = \text{Cs} S[F(s) - F_{S}(s)] + \frac{F(s) - F_{S}(s)}{R} \\ & \text{(CpS + CsS + } \frac{1}{R}) F_{S}(s) = \left(\text{CsS + } \frac{1}{R}\right) F_{S}(s) \end{array}$$

$$F_{5}(5) = F_{5}(5) + F_{52}(5)$$

$$F_{5}(5) = \frac{(C_{5}RS + 1) F(5) - \alpha F(5)}{R(C_{p} + C_{5})S + 1}$$

Función de +ransference

Exior en estado estacionario  $C(s) = \lim_{s \to 0} \frac{1}{s} \cdot \left[ 1 - \frac{R(Cp + Cs)s + 1}{R(Cp + 2Cs)s + (2-\alpha)} \right] = 1 - 1 + \alpha = \alpha$ e(t)=aV=0.25V Estabilidad en lazo abiesto R(Cp+Cs)s+1=0 R(Cp+Cs)S=-1 :La respuesta es asintoticamente estable. S = - R(Cp+Cs)