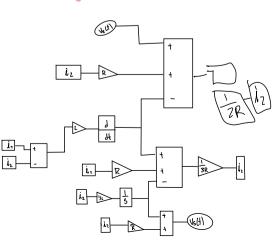
Equationes Principales

Vert = 
$$Ri_1(t) + Ld[i,(t)-\dot{\lambda}_2(t)] + R[\lambda_1(t)-\dot{\lambda}_2(t)]$$
 $\frac{Ld[i_1(t)-\dot{\lambda}_2(t)]}{dt} + R[\lambda_1(t)-\dot{\lambda}_2(t)] = Ri_2(t) + Ri_2(t) + \frac{1}{c} \int \dot{\lambda}_2(t) dt$ 
 $\frac{Ld[i_1(t)-\dot{\lambda}_2(t)]}{dt} + \frac{1}{c} \int \dot{\lambda}_2(t) dt$ 
 $\frac{Ld[i_1(t)-\dot{\lambda}_2(t)]}{dt} + \frac{1}{c} \int \dot{\lambda}_2(t) dt$ 

Modelo de ecuaciones Integro-diferenciales 
$$i_1(t) = \frac{V_2(t) - Ld \operatorname{Li}_1(t) - i_2(t)}{dt} + \operatorname{Ri}_2(t) \frac{1}{2R}$$

$$i_1(t) = \frac{1}{2R} \left[ \frac{Ld \operatorname{Li}_2(t) - i_2(t)}{dt} \right] + \operatorname{Ri}_1(t) - \frac{1}{C} \left[ \frac{1}{2} \left( \frac{1}{3R} \right) \right] + \operatorname{Ri}_1(t) - \frac{1}{C} \left[ \frac{1}{2} \left( \frac{1}{4} \right) \right] + \operatorname{Ri}_1(t) - \frac{1}{C} \left[ \frac{1}{2} \left( \frac{1}{4} \right) \right] + \operatorname{Ri}_1(t) - \frac{1}{C} \left[ \frac{1}{2} \left( \frac{1}{4} \right) \right] + \operatorname{Ri}_1(t) - \frac{1}{C} \left[ \frac{1}{2} \left( \frac{1}{4} \right) \right] + \operatorname{Ri}_1(t) - \frac{1}{C} \left[ \frac{1}{2} \left( \frac{1}{4} \right) \right] + \operatorname{Ri}_1(t) - \frac{1}{C} \left[ \frac{1}{2} \left( \frac{1}{4} \right) \right] + \operatorname{Ri}_1(t) - \frac{1}{C} \left[ \frac{1}{2} \left( \frac{1}{4} \right) \right] + \operatorname{Ri}_1(t) - \frac{1}{C} \left[ \frac{1}{2} \left( \frac{1}{4} \right) \right] + \operatorname{Ri}_1(t) - \frac{1}{C} \left[ \frac{1}{2} \left( \frac{1}{4} \right) \right] + \operatorname{Ri}_1(t) - \frac{1}{C} \left[ \frac{1}{2} \left( \frac{1}{4} \right) \right] + \operatorname{Ri}_1(t) - \frac{1}{C} \left[ \frac{1}{2} \left( \frac{1}{4} \right) \right] + \operatorname{Ri}_1(t) - \frac{1}{C} \left[ \frac{1}{2} \left( \frac{1}{4} \right) \right] + \operatorname{Ri}_1(t) - \frac{1}{C} \left[ \frac{1}{2} \left( \frac{1}{4} \right) \right] + \operatorname{Ri}_1(t) - \frac{1}{C} \left[ \frac{1}{2} \left( \frac{1}{4} \right) \right] + \operatorname{Ri}_1(t) - \frac{1}{C} \left[ \frac{1}{2} \left( \frac{1}{4} \right) \right] + \operatorname{Ri}_1(t) - \operatorname{R$$



Transformada & Ly place Macta 7

$$Ve(s) = RI, 61 + LS[I, (x) - I, 6x] + RII, (x) - I_2(x)]$$
 $LS[I, 6x] - I_2(x)] + R[I_1, (x) - I_2(x)] = RI_2(x) + RI_2(x) + \frac{I_2(x)}{CS}$ 
 $VS(6x) = RI_2(x) + \frac{I_2(x)}{CS}$ 

Procediminato algebraico

 $Ve(S) = (R + LS + R) I_1(S) - (LS + R) I_2(S)$ 
 $= (LS + 2R) I_1(6) - (LS + R) I_2(S)$ 
 $ISI_1(x) - LSI_2(s) + RI_1(s) + RI_2(s) = 2RI_2(s) + \frac{I_2(s)}{CS}$ 
 $ISI_1(x) - ISI_2(s) + RI_2(s) + LSI_2(s) + \frac{I_2(s)}{CS}$ 
 $ISI_1(x) = 3RI_2(s) + LSI_2(s) + \frac{I_2(s)}{CS}$ 
 $ILS + R I_1(s) = (3R + LS + \frac{1}{CS}) I_2(s)$ 
 $II_1(S) = \frac{3(RS + CLS^2 + 1)}{CS(LS + R)} I_2(s) = \frac{CLS^2 + 3RCS + 1}{CS(LS + R)} I_2(s)$ 
 $Ve(S) = (LS + 2R)(US^2 + 3(RS + 1))I_2(s) - (LS + R) I_2(s)$ 

1352 + ZLRS + R2

Practia 1

CL353 + 3CLR52+ LS+ 2CLR52 + 6CR2S+ 2R CL353+ ZCDR52- CR35 SCR35

= [ (15+2R) ((162+ 3CRSH) - (6TLS+R) (LS+R) ] ] IZ(S)

Ve(5) = 3 CLRS2+ (5002+1) S+ 2R

NC(S)= (RS+1) Iz(S)

3 CLR 52-4 (6 CR24 L) 5+ ZR IS CS (LS+R)

$$\frac{V_{5}(5)}{V_{7}(5)} = \frac{(LRS^{2} + (CR^{2} + L)S + R)}{3 (LRS^{2} + (SCR^{2} + L)S + 2R)} \qquad (= 4.7 \text{ NF} \qquad L = 3.3 \text{ mH}$$

$$72 \text{ NF} \qquad 33 \text{ mH}$$

$$73 \text{ NF} \qquad 33 \text{ mH}$$

$$74 \text{ NF} \qquad 34 \text{ mH$$

Ve(5) 3CLRS1 + (SOR1+L)S+2R den = [3\*(\*L\*R, 5\*(\*R\*\*2+L, 2\*R]

V5 (5) = (LR5'+ ((R'+L) 5+ R

$$\lambda_1 = -454545.117$$
 El sistema Presenta una respuesta esterble y  $\lambda_2 = -2.020$  Sobreamortiguada

VH) -

$$= \lim_{S \to \infty} S \cdot \frac{1}{S} \left[ 1 - \frac{CLRS^2 + CQR^2 + L + S + R}{3QLRS^2 + (SQR^2 + L) + 2R} \right]$$

$$= \frac{R}{3Q}$$

$$2R$$
  $Ve(+)=1v$   $Ve(3)=\frac{1}{5}$