$$u(t) = \frac{L(t)}{L(t)} = \frac{1}{2}$$

(1)
$$i = ic + ir + ir$$

 $i = ce + e + \frac{1}{L} \int e^{-ic}$
 $T(c) = \left[cs + \frac{1}{L} + \frac{1}{Lc}\right] E(c)$

$$\frac{|E(s)|}{|I(s)|} = \frac{|E(s)|}{|EL(s^2 + Ls + P)|} \Longrightarrow \frac{|E(s)|}{|I(s)|} = \frac{|E(s)|}{|E(s)|} = \frac{|E(s)|}{|$$

$$S = \frac{1}{2} \frac{\sqrt{LC}}{PC}$$

$$S = \frac{1}{2} \sqrt{\frac{LC}{R^2C^2}}$$

$$K \tan^2 = \frac{1}{C}$$

$$1 = \frac{1}{1} \Rightarrow r = 1 \Rightarrow r = \frac{c}{c}$$

$$\mathbf{R} = \sqrt{\frac{1}{\mathbf{C}^2}}$$

$$R = \frac{1}{C}$$

$$\frac{24}{|H|0} = \frac{\theta_{21}(1)}{\theta_{12}(1)} = 0$$

Girlf) no influge en la calida Ori(1).

- (3) (1 = (2+ic
- (4) ic = c vc
 - (5) Vs= izk2

c.)
$$\chi = \begin{bmatrix} u \\ iz \\ Ve \end{bmatrix} = \begin{bmatrix} x_1 \\ x_2 \\ x_3 \end{bmatrix}$$
; $u = v_1$; $y = v_2 = izRz = x_2Rz$

$$\dot{\chi}_1 = \frac{V_C - V_S}{L^2} = \frac{diz}{dt}$$

$$\frac{\dot{\chi}_2}{\dot{L}_2} = \frac{\chi_3 - \chi_2 \, R_2}{\dot{L}_2}$$

$$\dot{\chi}_3 = \dot{v}_c = \frac{\dot{c}_c}{c} = \frac{\dot{c}_1 - \dot{c}_2}{c} = \frac{\dot{c}_1 - \dot{c}_2}{c}$$