

Análisis GIC de manera genérica

$$0 \quad v_{x}.y_{1} - v_{u_{2}}y_{1} = \mathbf{I}_{i_{1}}$$

(3)
$$V_{W}(Y_{H}+Y_{5})-V_{U1}Y_{H}=0$$

 $| E \times + v_0 \le V_0 = V_0 = V_0$ $Z_{in} = \frac{V_{in}}{T_{in}}$ $V_{in} = V_{x}$

(3)
$$V_{\chi}(Y_{H} + Y_{5}) - V_{U1}Y_{H} = 0$$

$$\begin{array}{ccc}
(3) & V_{U_1} & = V_{\chi} \left(\frac{1}{1} + \frac{1}{1} \right) \\
(3) & & & & & & & & \\
(4) & & & & & & & \\
(5) & & & & & & & \\
\end{array}$$

$$\frac{3}{(4)} en(2) \\ (4) v_{2} = v_{x} \int \frac{(y_{2} + y_{3})}{y_{2}} - \frac{y_{3}(y_{4} + y_{5})}{y_{2}y_{4}}$$

(f) en (1)
$$\frac{1}{\sqrt{1}} = \frac{1}{\sqrt{1}} = \frac{1}{\sqrt{1}} = \frac{1}{\sqrt{1}}$$

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Caso de estatio

para leser ver un inductor en

Jerivación 1/2 debe ser un conscitor

ya que 1/4 es un resistar en el vircuito

de estadio.

Por lo 4anto, reemplazo con tado

Por bo 42nto, reemplazo con todo resistores menos p₂ y el circuito queda de la signiente manera

My A TC ELV A

 $\frac{\sqrt{2}}{v_1} = \frac{\sqrt{2}}{v_1} \cdot \frac{\sqrt{2}}{v_{\alpha}}$

Vz sale de la ecusión (3)

$$YSLv = Z_{GC} = \frac{212325}{2224} \Rightarrow \frac{R_1R_3R_5}{2L_2}$$

$$SLv = SC_2 \frac{R_1R_3R_5}{R_{H}} :: Lv = C_2 \frac{R_1R_3R_5}{R_{H}}$$

$$Ahora analizo d BLC$$

$$V_X = \frac{(BL + \frac{1}{5L})^{-1}}{5L} + \frac{5L}{5L} + \frac{1}{5L} + \frac{1}{5L}$$

$$V_X = \frac{SL}{N_1} + \frac{1}{5L} + \frac{1}{5L} + \frac{1}{5L}$$

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Se milhielico
$$H(s)$$
. $\frac{\gamma_z}{\gamma_x}$:

$$H(s) = \frac{s \frac{w_0}{Q}}{s^2 + s \frac{w_0}{Q} + w_0^2} \cdot \frac{\gamma_{q+1}}{\gamma_q}$$

$$S^2 + 5 \frac{w_0}{Q} + w_0^2 \cdot \frac{\gamma_{q+1}}{\gamma_q}$$

$$Para Simelificar $\gamma_q = \gamma_5$

$$w_0^2 = \frac{1}{LC} \cdot \frac{Lv}{Lv} = \frac{c_2 k_1 k_3 k_5}{k_3 q}$$

$$v_0^2 = \frac{1}{LC} \cdot \frac{Lv}{Lv} = \frac{c_2 k_1 k_3 k_5}{k_3 q}$$

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$$Si \quad c_2 = C \quad n \quad k_1 = R_3$$

$$\frac{1}{L} = w_0 \quad \Rightarrow \quad k_1 = \frac{1}{LC}$$$$

Si
$$C_2 = C$$
 A $A_1 = A_3$

$$\frac{1}{A_1C} = W_0 \rightarrow A_1 = \frac{1}{W_0C}$$

$$W_0 = \frac{1}{A_1C} = \frac{Q}{A_1C} \Rightarrow \sqrt{\frac{C}{A_1C}} = \frac{Q}{A_1C}$$

$$\frac{Q^{2}}{g^{2}} = \frac{\zeta}{L} = \frac{\zeta}{g_{2}} \frac{1}{g_{3}}$$

$$\frac{Q^{2}}{g_{1}} = \frac{1}{w_{0}C}$$

$$\frac{Q^{2}}{g$$

$$R_1 = \frac{1}{WoC}$$

$$R_1 = R_3$$

$$C = C_2$$

$$R_2 = QR_1$$

$$R_1 = R_3$$

$$R_2 = R_3$$