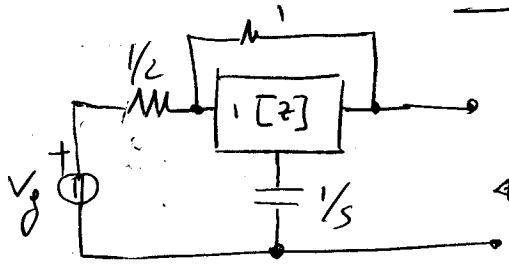
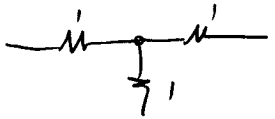
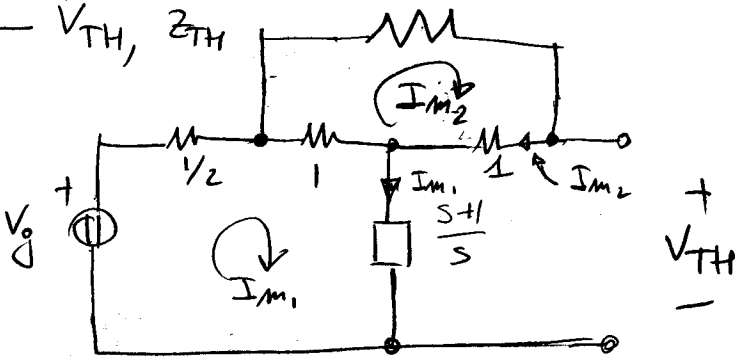
ELE_ITF_2001_12_12 ES.2

$[z] = \begin{bmatrix} 2 & 1 \\ 1 & 2 \end{bmatrix}$



$\leftarrow V_{TH}, Z_{TH}$

$[z] =$ 

$\Rightarrow$ 

- maglie

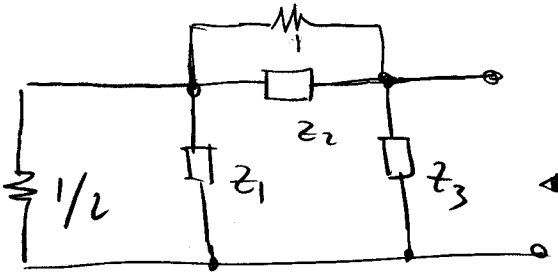
$$\begin{bmatrix} \frac{5s+2}{2s} & -1 \\ -1 & 3 \end{bmatrix} \begin{bmatrix} I_{m_1} \\ I_{m_2} \end{bmatrix} = \begin{bmatrix} V_g \\ \phi \end{bmatrix} \rightarrow I_{m_2} = \frac{I_{m_1}}{3}$$

$$I_{m_1}\left(\frac{13s+6}{6s}\right) = V_g \Rightarrow I_{m_1} = V_g \frac{6s}{13s+6}$$

$$V_{TH} = \frac{s+1}{s} I_{m_1} + I_{m_2} \cdot 1 = \frac{8s+6}{13s+6} V_g$$

$\leftrightarrow$

- calcolo Z_{TH}: trasformabile stella – triangolo



$\leftarrow Z_{TH} = \left[(z_1 // \frac{1}{2}) + (z_2 // 1)\right] // z_3$

eee.