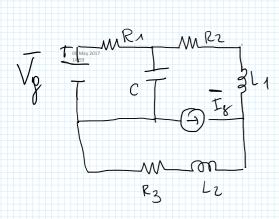


$$V_{g} = 10 \text{ cm}(\omega t + \frac{\pi}{3})[V]$$
 $t_{g} = -5 \text{ sen}(\omega t) [A]$
 $R_{1} = 50 [\Omega] L_{1} = 1[\text{mH}]$
 $R_{2} = 10 [\Omega] L_{2} = 5[\text{mH}]$
 $R_{3} = 5[\Omega] C = 100[\mu F]$
 $\omega = 1000 (\text{rod}(s])$

1 -> DISEGNARE IL CIRCUITO SIMBOLICO NEL DOMINIO DEI FASOM'

1e -> FASOM' DEI GENERATOM', 60° $V_g = 10 \cos(\omega t + \overline{I}_3)[V] \Rightarrow V_g = 10l = 10\left(\frac{1}{2} + J\frac{13}{2}\right)[V]$ $I_g = -S \Omega \ln(\omega t)[A] = 7 I_g = -S(l^{-J}\frac{1}{2}) = -S \cdot -J = SJ$ $\Omega \ln(\omega t) = \cos(\omega t - \overline{I}_2)$



$$\gamma = \frac{L}{R} \qquad L = \gamma R$$

$$[H] = [S][\Omega]$$

16 -> Sostituire à impolican le rispettive impEDEWZE

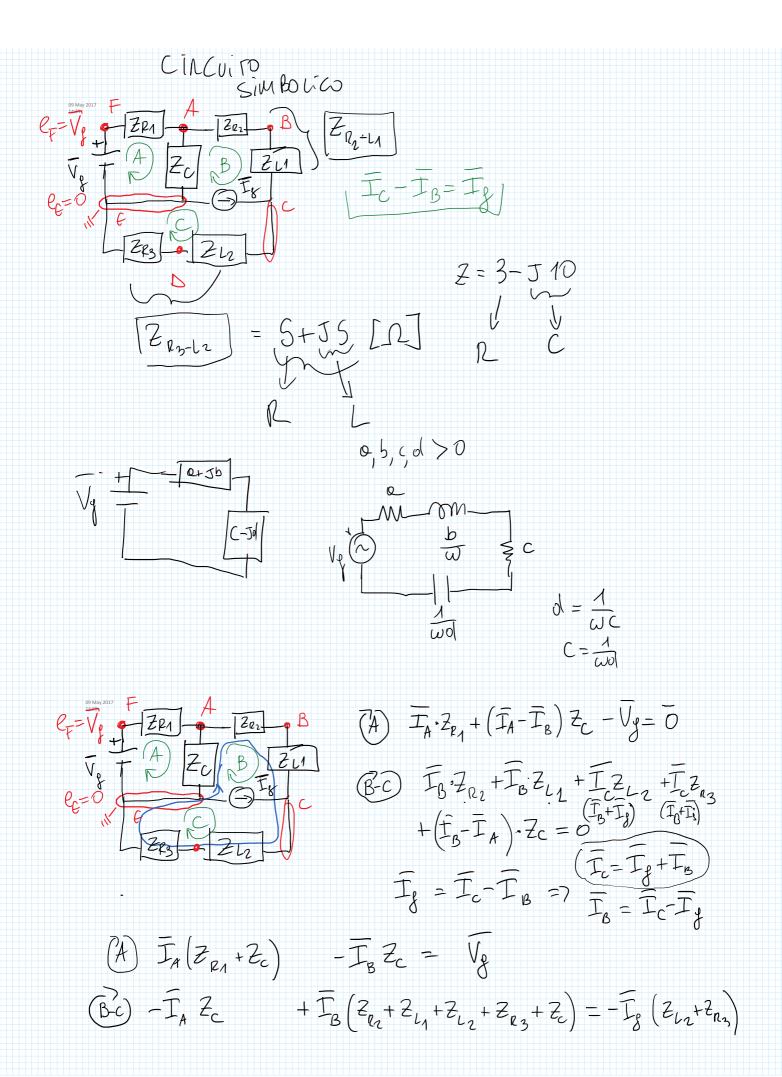
$$Z_{R_1} = R_1 = SO[\Omega]$$
; $Z_{R_2} = R_2 = 10[\Omega]$
 $Z_{R_3} = R_3 = S[\Omega]$

$$Z_{L_1} = J\omega L_2 = J1[\Omega]$$

$$Z_{L_2} = J\omega L_2 = JS[\Omega]$$

$$Z_{c} = \frac{1}{J\omega c} = \frac{-J}{\omega c} = \frac{-J}{10^{3} \cdot 10^{4}} = -J10$$

CINCUIPO Simbolico



$$\begin{bmatrix}
\frac{2n_{1}+2c}{2} & -2c \\
-2c & (\frac{2}{2n_{1}+2n_{3}+2}+\frac{2}{2}+2c)
\end{bmatrix} \begin{bmatrix} \overline{I}_{A} \\ \overline{I}_{B} \end{bmatrix} \begin{bmatrix} \overline{I}_{A} \\ -\overline{I}_{g}(2_{L_{2}}+2_{h_{3}})
\end{bmatrix}$$

$$Z_{p_{1}} = 50 \quad Z_{p_{2}} = 10 \quad Z_{p_{3}} = 5 \quad Z_{L_{1}} = 5 \quad Z_{L_{2}} = 55 \quad Z_{C} = 105 \quad [\Omega]$$

$$\begin{bmatrix} 50-510 & (105) \end{bmatrix} \begin{bmatrix} \overline{I}_{A} \\ \overline{I}_{B} \end{bmatrix} = \begin{bmatrix} 10 \cdot e^{\frac{13}{3}} = 10 \left(\frac{1}{2}+J\frac{13}{2}\right) \\ -5J\left(5+SJ\right) = 25-25J$$

$$\begin{bmatrix}
60-510 & (105) \end{bmatrix} \begin{bmatrix} \overline{T}_{A} \\ T_{B} \end{bmatrix} = \begin{bmatrix}
10e^{\frac{17}{3}} = 10(\frac{1}{2}+J\frac{13}{2}) \\
-5f(5+55) = 25-255
\end{bmatrix}$$

$$\begin{bmatrix}
10(\frac{1}{2}+J\frac{13}{2}) & 105 \\
882.4 < -23^{\circ}
\end{bmatrix}$$

$$\frac{17.75}{4} = \frac{34}{882.4} < -23^{\circ}$$

882,4 < -73° -141 + J(-270 + 1.7.75)200 < -135° -141 - J 142.5 882.4 \(\alpha - 23 \) $= \left| \frac{200}{882.6} \right| < \left(-35 + 23 \right)^{\circ} = 0.22 \ \angle -112^{\circ}$ I_B = | 50-510 | 5+5135 | = =(50-J10)(25-257)-J10(5+J573)=1250 - 1250 z - 250 z 1985 - J 1550 \ \(1085^2 + 1550^2 \) \(\text{anct}_g \left(-\frac{1550}{1085} \right) \) 882 <- 23 $T_{B} = \frac{1832}{882} \angle -55 - (-23) = 2.14 \angle -32^{\circ}$ Ic= Ix+IB= $\sqrt{1} = I_{13} \cdot Z_{L_1} = (2.14 < -32^{\circ}) \cdot (1 < 90^{\circ}) = 2.14 < 58^{\circ}$

$$V_{L_{A}}(t) = |V_{L_{A}}| \cos(\omega t + \langle V_{L_{A}}|) = 2.44 \cos(4000 t + 80) [V]$$

$$T_{A}(t) = |T_{A}| \cos(\omega t + \langle T_{A}|) = 0.22 \cos(\omega t - 1120) [A]$$

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CAMCU PUMAMENTE

ERRATA CORRIGE

09 May 2017

14:32

$$\begin{cases}
\begin{cases}
f(t) \\
f(t)
\end{cases} = \frac{F(s)}{s} + f(o) = \frac{F(s)}{s}
\end{cases}$$

$$\begin{cases}
f(t) \\
f(t)
\end{cases} = \frac{F(s)}{s} + f(o)$$