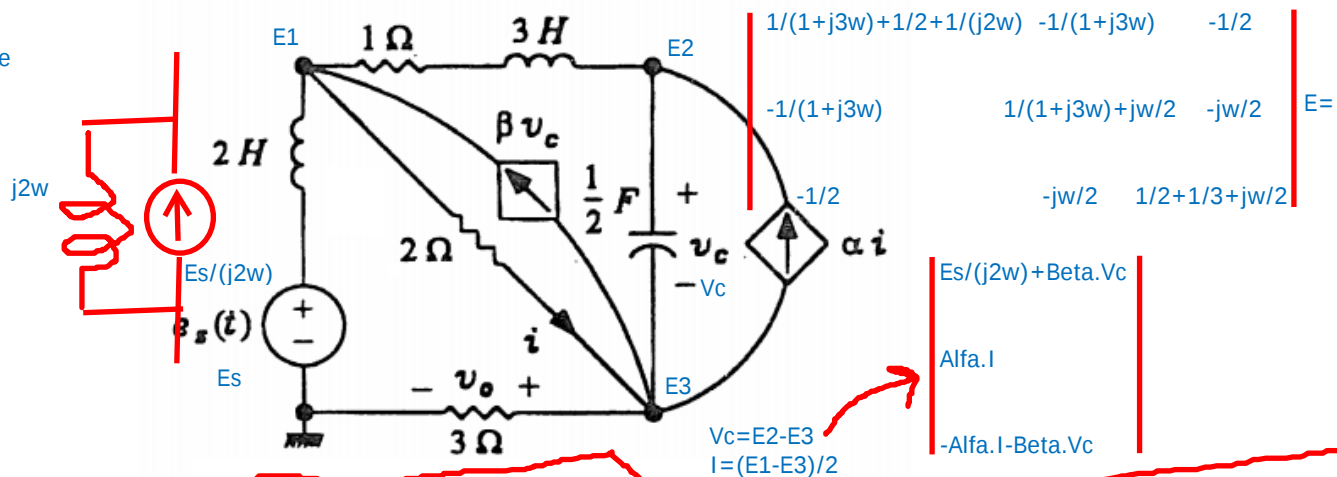


Sinusoidal steady-state

$$Y_n(j\omega) \cdot E = I_s$$



$$Y_n(j\omega) \cdot E = \begin{bmatrix} E_s/(j2\omega) + \beta \cdot (E_2 - E_3) \\ \alpha \cdot (E_1 - E_3)/2 \\ -\alpha \cdot (E_1 - E_3)/2 - \beta \cdot (E_2 - E_3) \end{bmatrix}$$

$$\begin{bmatrix} 1/(1+j3\omega) + 1/2 + 1/(j2\omega) & -1/(1+j3\omega) - \beta & -1/2 + \beta \\ -1/(1+j3\omega) - \alpha/2 & 1/(1+j3\omega) + j\omega/2 & -j\omega/2 + \alpha/2 \\ -1/2 + \alpha/2 & -j\omega/2 + \beta & 1/2 + 1/3 + j\omega/2 - \alpha/2 - \beta \end{bmatrix} \begin{bmatrix} E_1 \\ E_2 \\ E_3 \end{bmatrix} = \begin{bmatrix} E_s/(j2\omega) \\ 0 \\ 0 \end{bmatrix}$$