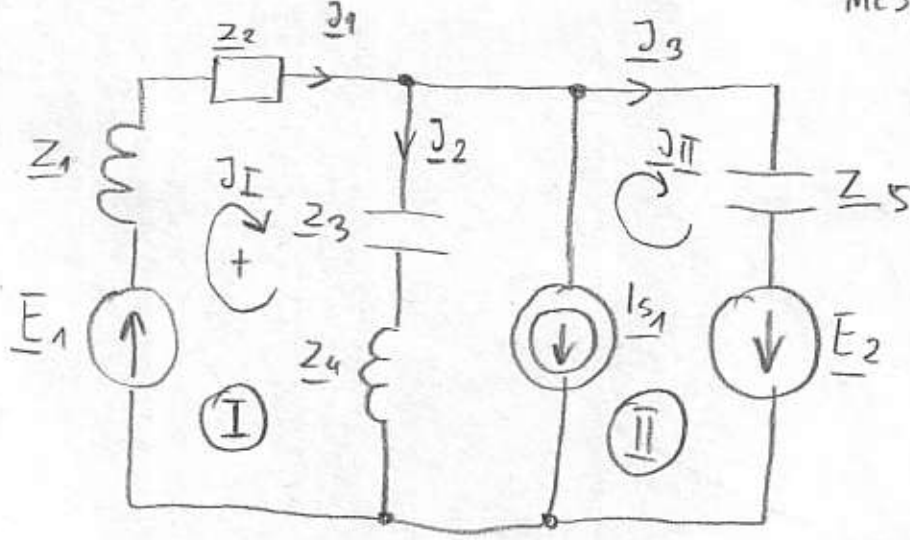


MESH CURRENT METHOD



$$Z_k = 1 [\Omega]$$

$$k = 1, 2, 3, 4, 5$$

$$E_1 = \sqrt{2} \angle 45^\circ$$

$$E_2 =$$

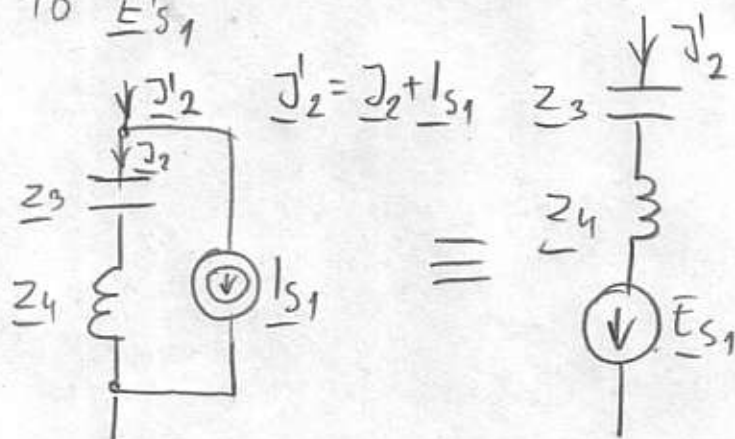
$$I_s =$$

$$\left( \sum E_s \right)_I = E_1 + E'_{s1} = J_I \cdot (Z_1 + Z_2 + Z_3 + Z_4) - J_{II} (Z_3 + Z_4)$$

$$E'_{s1} = (Z_3 + Z_4) \cdot I_{s1}$$

$$\left( \sum E_s \right)_{II} = -E'_{s1} + E_2 = J_{II} \cdot (Z_3 + Z_4 + Z_5) - J_I (Z_3 + Z_4)$$

BRANCH WITH  $Z_3 = -j \frac{1}{\omega \cdot C_3}$  AND  $Z_4 = j \cdot \omega \cdot L_4$  AND SOURCE CURRENT  $I_{s1}$  BEFORE AND AFTER TRANSFORMATION TO  $E'_{s1}$



CURRENTS IN CIRCUIT

$$J_1 = J_I$$

$$J'_2 = J_I - J_{II} \rightarrow J_2 = J'_2 - I_{s1} = J_I - J_{II} - I_{s1}$$

$$J_3 = J_{II}$$