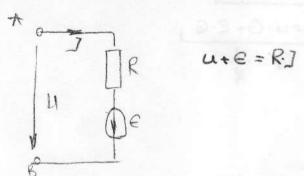
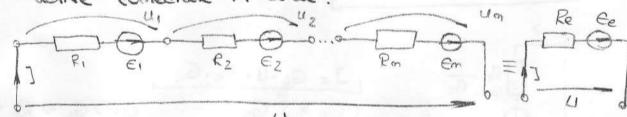
16/2/3/3010 Juno 1 4 :



Comexiumea laturilon active

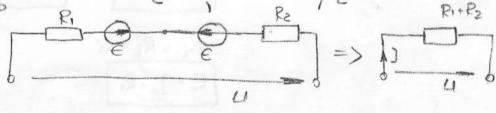


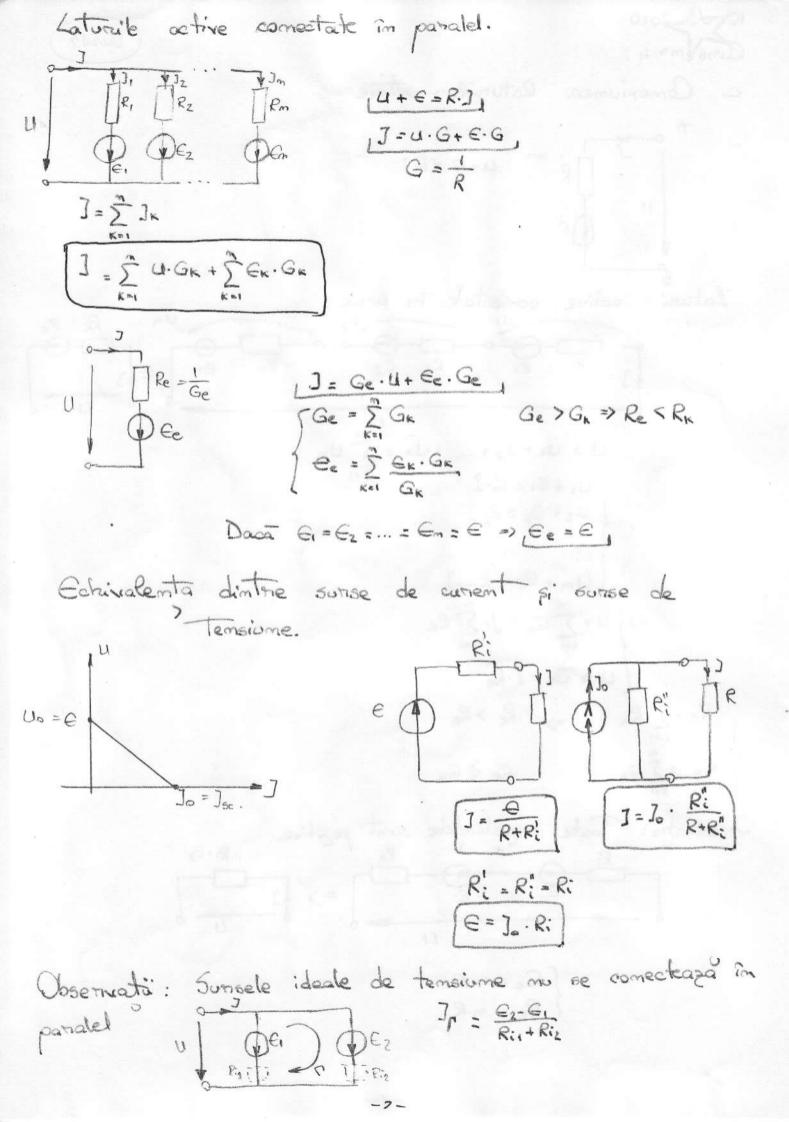
Laturi active comectate in service:

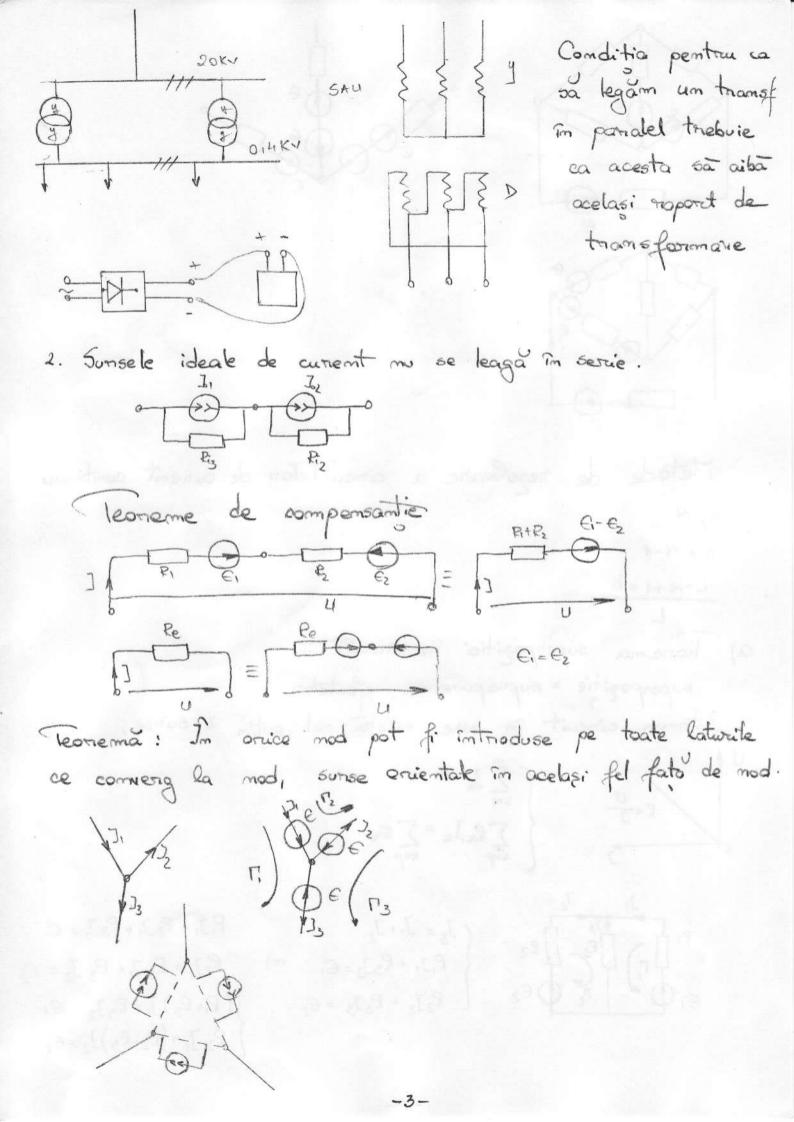


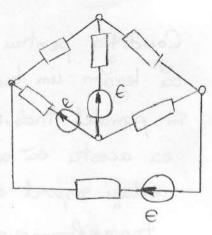
$$\{u_1 + e_1 = R_2.\}$$

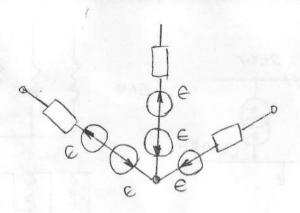
Observatie: Toate registemble sunt positive

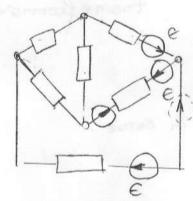












Metode de negoliare a cincuiteton de current continua

m = N-A

L-N+1=6

a) leonema superpositiei în anaust superpositie = suprapumerea efectelon.

- Intri-um circuit in come existà cel putim 2 surse,

$$\begin{cases} \sum_{k=1}^{\infty} J_k = 0 \\ \sum_{k=1}^{\infty} J_k = \sum_{k \in p} C_k \end{cases}$$

$$\begin{cases} J_3 = J_1 + J_2 \\ R_1 J_1 + R_3 J_3 = E_1 \end{cases} = \begin{cases} R_2 J_2 + R_3 J_3 = E_2 \end{cases}$$

$$R_{1}J_{1}+R_{3}J_{1}+R_{3}J_{2}=\epsilon_{1}$$

$$R_{2}J_{2}+R_{3}J_{1}+R_{3}J_{2}=\epsilon_{2}$$

$$\{(R_{1}+R_{3})J_{1}+R_{3}J_{2}=\epsilon_{1}$$

$$\{R_{3}J_{1}+(R_{2}+R_{3})J_{2}=\epsilon_{2}$$

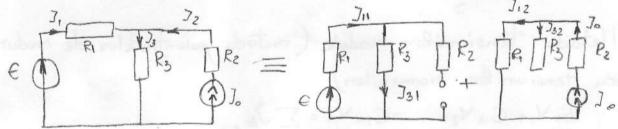
$$J_{1} = \frac{D11}{D} ; J_{2} = \frac{D_{22}}{D}$$

$$\begin{cases} J_{1} = \Theta_{1} \cdot G_{11} + G_{12} \cdot \Theta_{2} \\ J_{2} = \Theta_{1} \cdot G_{21} + \Theta_{2} \cdot G_{22} \end{cases}$$

$$J_{11} = G_{11} \cdot \Theta_{11} \qquad J_{12} = G_{12} \cdot \Theta_{2}$$

$$J_{21} = G_{21} \cdot \Theta_{11} \qquad J_{22} = G_{22} \cdot \Theta_{2}$$

$$= \int_{K=1}^{\infty} \int_{J_{k}} = \sum_{k=1}^{\infty} G_{jk} \cdot C_{k}$$



$$\begin{cases} J_1 = J_{11} - J_{12} \\ J_2 = J_0 \\ J_3 = J_{31} + J_{32} \end{cases}$$

$$\int J_{11} = J_{31} = \frac{E}{R_1 + R_3}$$

$$J_{12} = J_0 = \frac{R_5}{R_1 + R_3}$$

$$J_{32} = J_0 = \frac{R_1}{R_1 + R_3}$$

$$e_1$$
 $e_2$ 
 $e_3$ 
 $e_4$ 
 $e_5$ 
 $e_7$ 
 $e_7$ 
 $e_7$ 
 $e_7$ 
 $e_7$ 
 $e_7$ 
 $e_7$ 
 $e_7$ 
 $e_7$ 

$$\begin{cases} J_3 = J_{1} + J_2 \\ R_1J_1 + R_3J_3 = E_1 \\ R_2J_2 + R_3J_3 = E_2 \end{cases}$$

$$N=2$$
 $L=3$ 
 $M=N-1=1$ 
 $b=L-N+1=2$ 

$$R_{1}J_{1}+R_{3}(J_{1}+J_{2})=E_{1}$$

$$R_{2}J_{2}+R_{3}(J_{1}+J_{2})=E_{2}$$

$$\left\{\begin{pmatrix} R_{1}+R_{3} \end{pmatrix} J_{1}+R_{3}J_{2}=E_{1} \\ R_{3}J_{1}+\begin{pmatrix} R_{2}+R_{3} \end{pmatrix} J_{2}=E_{2} \end{pmatrix}$$

Case general: 
$$R_n : J_1' + R_{12} : J_2' + ... + R_{1m} : J_m' = \sum E_1$$

$$R_{21} : J_1' + R_{22} : J_2' + ... + R_{2m} : J_m' = \sum E_2$$

$$\vdots$$

$$R_{m_1} : J_1' + R_{m_2} : J_2' + ... + R_{m_m} : J_m' = \sum E_m$$

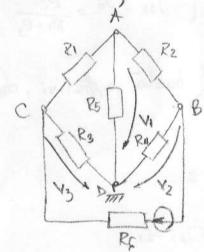
$$\begin{cases} R_{11} \cdot J_{1}' + R_{12} J_{2}' = C_{1} \\ R_{21} J_{1}' + R_{22} J_{2}' = C_{2} \end{cases}$$

$$\begin{cases} J_{1}' = J_{1} \\ J_{2}' = J_{2} \\ J_{1}' + J_{2}' = J_{3} \end{cases}$$

Rij = Rjk - rezistento comuna buche au indice k și bucha cu indice j

c.) Metoda tensiumilor modale (metoda potentialelor de moduri sou metoda tensiumilar tramurzilar)

GKK - conductanto tuturon laturilon care conveng la modul k



GKj = Gjk = conductanto cu semm schumbat

$$J_{K} = \frac{G_{K}}{R_{K}}; \quad \sum J_{KSC}$$

$$\left\{ \sum J_{SC2} = \frac{G}{R_{K}} \right\}$$

$$\left\{ \sum J_{SC3} = \frac{G}{R_{K}} \right\}$$