Univerzitet u Banjoj Luci

Elektrotehnički fakultet

Osnovi elektrotehnike 1

Teoreme električnih mreža

Predavanje: 11. blok

TEOPEME KUHEAPHOCTU

- DEOPOND OPOND OPONDHOMENOM

COMO JEGAH (CHEPOLUM) Y KINJ (HT UM CT)

ETY U I U = αE $\alpha e \beta y y \alpha \beta$ T = b E $T = d \cdot Tg$ $T = \frac{E}{R_1 + R_2} = \frac{1}{R_1 + R_2} E = \alpha E$ $T = \frac{R_2}{R_1 + R_2} = \frac{1}{R_1 + R_2} E = \alpha E$

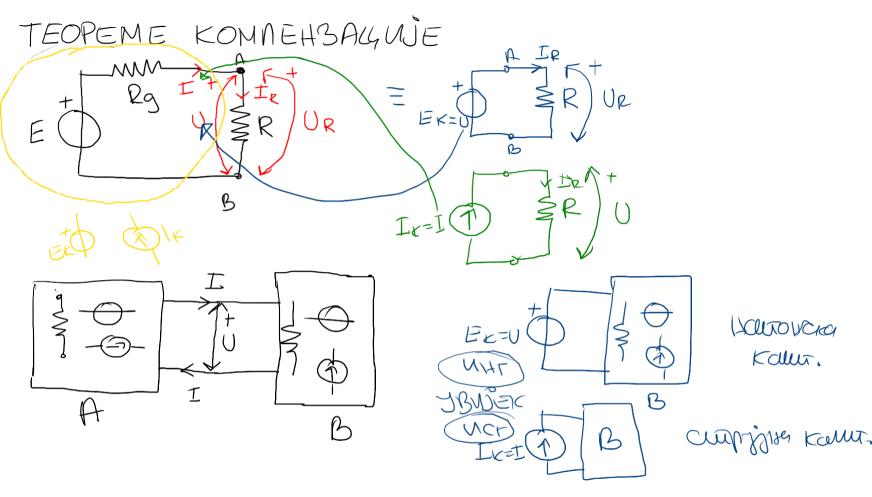
- The open a cycle paramytic
$$E = \emptyset$$
 , $I_3 = \emptyset$, I

- Waspara numerophociem

$$U = a_1E_1 + b_2I_{52} + a_3E_3 + \dots$$

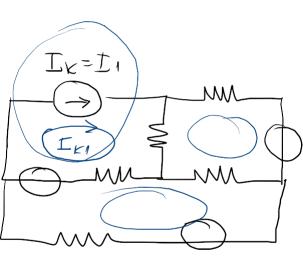
$$E \longrightarrow F_1 \longrightarrow F_2 \longrightarrow F_2 \longrightarrow F_3 \longrightarrow F_4 \longrightarrow F_4 \longrightarrow F_4 \longrightarrow F_4 \longrightarrow F_4 \longrightarrow F_5 \longrightarrow F_6 \longrightarrow F_6$$

- TROPENO MUNEUPINE Bolherocian oggila og trostyge U=aE+b egejando dux autonux transle pelita 6' wozida $\underline{T} = \frac{E}{R_1 + R_2} + \underline{Tg_1} \frac{R_1}{R_1 + R_2} + \underline{Tg_2} \frac{R_1}{R_1 + R_2} = \frac{1}{R_1 + R_2} E + (\underline{Tg_1} + \underline{Tg_2}) \frac{R_1}{R_1 + R_2}$ I = aE + b I" (E=30 V) I'(E=10) I'=10.0+6 $\Rightarrow C = \frac{I'-I'}{10}$ $I'' = \frac{I'-I'}{10} \circ 30 + I''$ I" (E = Ø). I" = Ø,0 +6 =>6= I"

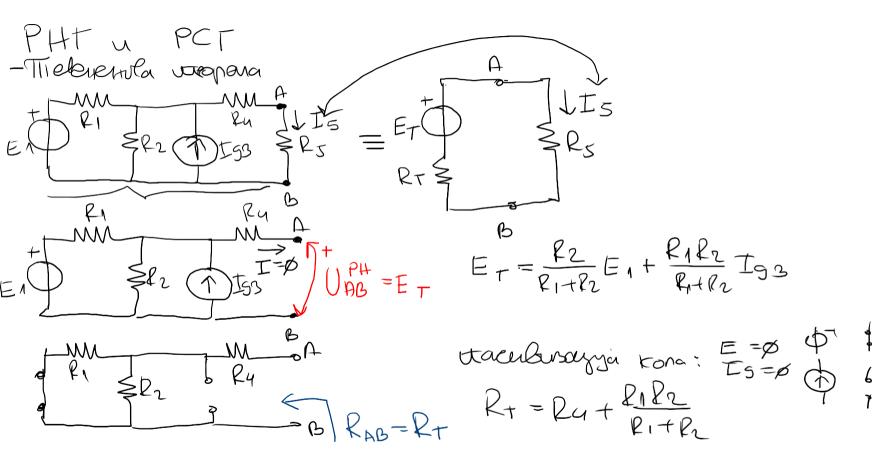


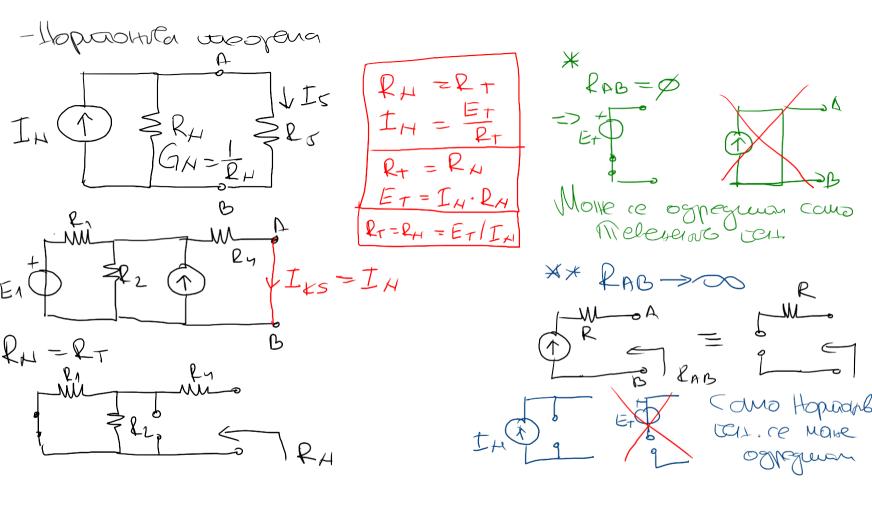
EL 2 ks E1 E6 Eĸ 26

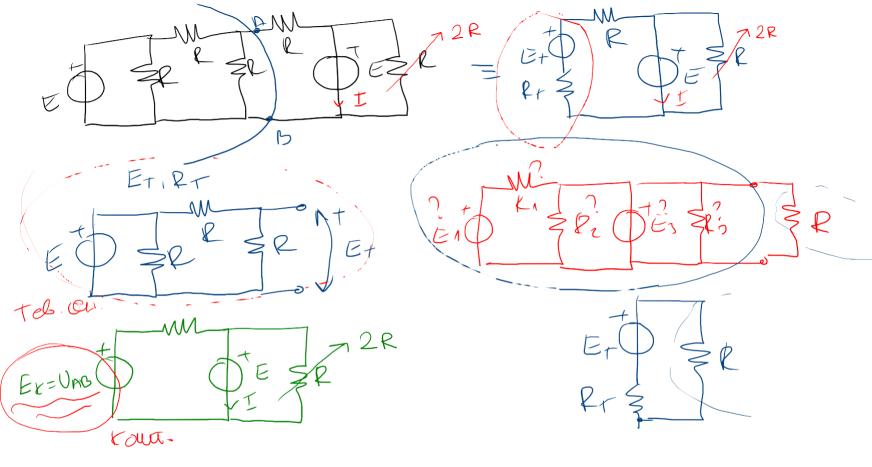
Ny = 9 Ng = 6 Komme curviès 3 jeg com lyler: 3 jeg



TEBEHEHOBA V HOPTOHOBA TEOPEMA







TEOPEMA OLPHABA CHATE ZPg=ZPp

Z(UI)9=Z(UI)p

ZPg=ZPp $E_{2}(-I_{2})+E_{1}\cdot I_{1}+U_{g}\cdot I_{g}=P_{1}I_{1}^{2}+P_{2}I_{2}^{2}+P_{3}I_{3}^{2}$ U12 = Ug - Ro I3 => Ug = -34 V

PE1 = E1 I1 = -0,175 W Pn = 200 si Igs = -55 mA l₂- 600 n I1=-0,025,A, Ly = 400 N I2 = -0,03/1 ヒィーチソ I3=-0,055A E2-18V

U10 = - 12 V

PE2 = E2(-I2)=0,54 W Prg=Ug tg = 1,87 W Per=0,125 w J Pp =2,235 W Per=1,21 W J Pp =2,235 W

TEOPEME PEGUNPOGUTETA (YBAJMHOCTU)

Also telepolety lessett y spann i spoysjowye y spann k cuaphy spann f also Su out rosspowles stain Joseph Company of the Rose Su Sho Fersett y spann to spann f also Su Sho Fersett y spann telepolety out to be sent to separate part of $I' = \frac{E_1'}{R_1 + \frac{R_2 R_3}{R_2 + R_3}} \cdot \frac{E_1' (R_2 + R_1 R_3 + R_1 R_3)}{R_1 + \frac{R_2 R_3}{R_2 + R_3}} \cdot \frac{E_1' + \frac{R_2 R_3}{R_2 + R_3}}{R_1 + \frac{R_3}{R_2 + R_3}} \cdot \frac{E_1' - E_1' - E_$

 $I'' = \frac{E_1''}{R_2 + \frac{R_1 R_3}{R_1 + R_3}} \cdot \frac{R_3}{R_1 + R_3} = \frac{E_1'' (R_1 + R_3) \cdot R_3}{R_1 + R_3} \cdot \frac{R_3}{R_1 + R_3} \cdot \frac{E_1'' (R_1 + R_3) \cdot R_3}{R_1 + R_3} = \frac{E_1'' (R_1 + R_3) \cdot R_3}{R_1 + R_3} \cdot \frac{R_3}{R_1 + R_3} = \frac{E_1'' (R_1 + R_3) \cdot R_3}{R_1 + R_3} \cdot \frac{R_3}{R_1 + R_3} = \frac{E_1'' (R_1 + R_3) \cdot R_3}{R_1 + R_3} \cdot \frac{R_3}{R_1 + R_3} = \frac{E_1'' (R_1 + R_3) \cdot R_3}{R_1 + R_3} \cdot \frac{R_3}{R_1 + R_3} = \frac{E_1'' (R_1 + R_3) \cdot R_3}{R_1 + R_3} \cdot \frac{R_3}{R_1 + R_3} = \frac{E_1'' (R_1 + R_3) \cdot R_3}{R_1 + R_3} \cdot \frac{R_3}{R_1 + R_3} = \frac{E_1'' (R_1 + R_3) \cdot R_3}{R_1 + R_3}$

METOSA APONOPYGUOTANHUX BENGGUHA

A PS B PTC

Ograzimo cearne y chourana Kana sa IRay apendiculary Injegnout Ems (E'1. doljan Mire growing sa E' useda count-

Other ca E(E) ga In a godice gregna & E. (I=I'E Dancierono ga Kroz la 18 apourse curros jaine I = 1 A. O 1490 ogragues

Uco = (la+le) · [8 => I6 = Uco Is = I6 + I6

UAO = Ro Is+Ru Iu IZ = UNO Ro

are 10 E = 18 11 Obje I1, ..., 13 aus je E=10 y 10 18 1, 18 1, ... 10 L8

UBC = RJIS UBO = R5. [] + K6 [6 I4- UBO

I3= I4+IT

 $\Gamma_1 = \Gamma_2 + \Gamma_3$

UNO = E! -RIII = E'= UNO +RIII = 18 V

