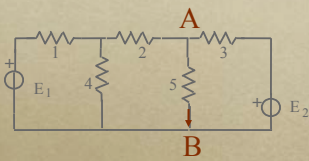


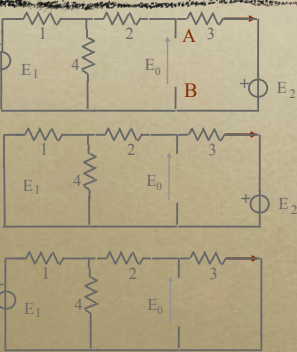
Esercitazione 6

Teorema del generatore equ. di f.e.m: Soluzione analitica



$$\begin{aligned}
 R_1 &= 4,5 \, \Omega; \\
 R_2 &= 10 \, \Omega; \\
 R_3 &= 15 \, \Omega; \\
 R_4 &= 35 \, \Omega; \\
 R_5 &= 200 \, \Omega; \\
 E_1 &= 290 \, \text{V}; \\
 E_2 &= 180 \, \text{V}.
 \end{aligned}
 \quad I_5 = 1,06 \, \text{A}.$$

Teorema del generatore equ. di f.e.m: Sovrapposizione

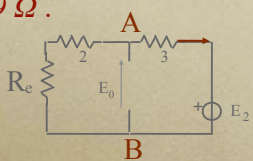


$$\begin{aligned}
 R_1 &= 4,5 \, \Omega; \\
 R_2 &= 10 \, \Omega; \\
 R_3 &= 15 \, \Omega; \\
 R_4 &= 35 \, \Omega; \\
 R_5 &= 200 \, \Omega; \\
 E_1 &= 290 \, \text{V}; \\
 E_2 &= 180 \, \text{V}.
 \end{aligned}
 \quad I_5 = 1,06 \, \text{A};$$

$$\begin{aligned}
 E_0 &= 219,83 \, \text{V}; \\
 R_1 &= 7,24 \, \Omega.
 \end{aligned}$$

Teorema del generatore equ. di f.e.m: Primo circuito

$$R_c = 3,99 \, \Omega.$$

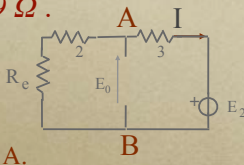


$$\begin{aligned}
 R_1 &= 4,5 \, \Omega; \\
 R_2 &= 10 \, \Omega; \\
 R_3 &= 15 \, \Omega; \\
 R_4 &= 35 \, \Omega; \\
 R_5 &= 200 \, \Omega; \\
 E_1 &= 290 \, \text{V}; \\
 E_2 &= 180 \, \text{V}.
 \end{aligned}
 \quad I_5 = 1,06 \, \text{A}.$$

$$\begin{aligned}
 E_0 &= 219,83 \, \text{V}; \\
 R_1 &= 7,24 \, \Omega.
 \end{aligned}$$

Teorema del generatore equ. di f.e.m:
Primo circuito

$R_c = 3,99 \Omega$.



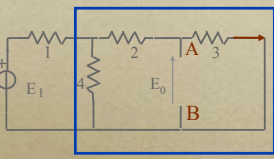
$I = -6,21 \text{ A}$.

$E'_0 = 86,88 \text{ V}$.

- $R_1 = 4,5 \Omega$;
- $R_2 = 10 \Omega$;
- $R_3 = 15 \Omega$;
- $R_4 = 35 \Omega$;
- $R_5 = 200 \Omega$;
- $E_1 = 290 \text{ V}$;
- $E_2 = 180 \text{ V}$;
- $I_5 = 1,06 \text{ A}$.
- $E_0 = 219,83 \text{ V}$;
- $R_i = 7,24 \Omega$.



Esercizi: Teorema del generatore equ. di f.e.m.



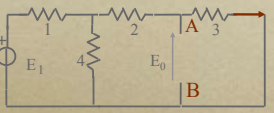
$R_c = 14,58$

- $R_1 = 4,5 \Omega$;
- $R_2 = 10 \Omega$;
- $R_3 = 15 \Omega$;
- $R_4 = 35 \Omega$;
- $R_5 = 200 \Omega$;
- $E_1 = 290 \text{ V}$;
- $E_2 = 180 \text{ V}$;
- $I_5 = 1,06 \text{ A}$.
- $E_0 = 219,83 \text{ V}$;
- $R_i = 7,24 \Omega$.
- $E'_0 = 86,86 \text{ V}$.



Esercizi: Teorema del generatore equ. di f.e.m.

$R'_c = 14,58 + 4,5$



$I_1 = 15,20$

$I_3 = 8,87$

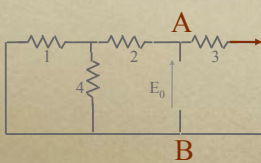
$E''_0 = 132,97 \text{ V}$.

- $R_1 = 4,5 \Omega$;
- $R_2 = 10 \Omega$;
- $R_3 = 15 \Omega$;
- $R_4 = 35 \Omega$;
- $R_5 = 200 \Omega$;
- $E_1 = 290 \text{ V}$;
- $E_2 = 180 \text{ V}$;
- $I_5 = 1,06 \text{ A}$.
- $E_0 = 219,83 \text{ V}$;
- $R_i = 7,24 \Omega$.
- $E'_0 = 86,86 \text{ V}$.

$E''_0 = 133,05 \text{ V}$.



Esercizi: Teorema del generatore equ. di f.e.m.



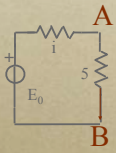
$E_0 = 219,83 \text{ V}$;

$R_i = 7,24 \Omega$.

- $R_1 = 4,5 \Omega$;
- $R_2 = 10 \Omega$;
- $R_3 = 15 \Omega$;
- $R_4 = 35 \Omega$;
- $R_5 = 200 \Omega$;
- $E_1 = 290 \text{ V}$;
- $E_2 = 180 \text{ V}$;
- $I_5 = 1,06 \text{ A}$.



Esercizi: Teorema del generatore equ. di f.e.m.



$$E_0 = 219,83 \text{ V};$$
$$R_1 = 7,24 \Omega .$$

$$R_1 = 4,5 \Omega;$$
$$R_2 = 10 \Omega;$$
$$R_3 = 15 \Omega;$$
$$R_4 = 35 \Omega;$$
$$R_5 = 200 \Omega;$$
$$E_1 = 290 \text{ V};$$
$$E_2 = 180 \text{ V}.$$
$$I_5 = 1,06 \text{ A}.$$

