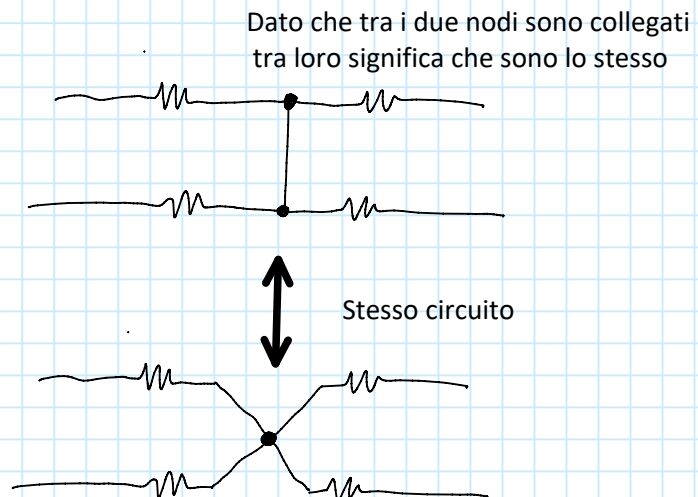
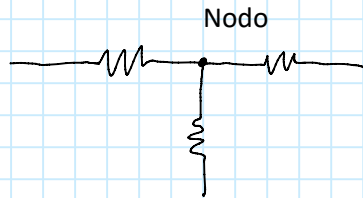


# Nodi, rami, maglie

giovedì 7 ottobre 2021 12:26

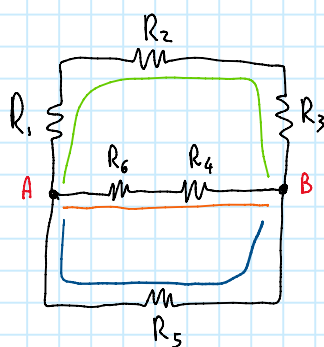
Circuito elettrico: insieme di componenti collegati tra loro

Nodo: punto di collegamento di tre o più componenti



RAMI:

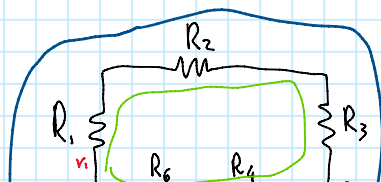
Ramo: porzione di circuito compresa tra due nodi



- $r_1 = \{R_1, R_2, R_3\}$
- $r_2 = \{R_6, R_4\}$
- $r_3 = \{R_5\}$

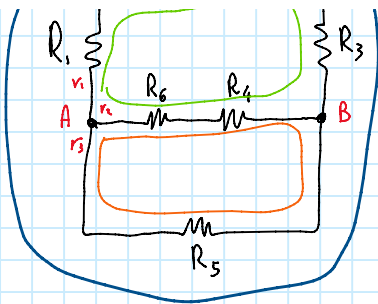
MAGLIA

Maglia: Percorso chiuso che non attraversa più di una volta per gli stessi punti



Posso descrivere le maglie attraverso i rami che le compongono oppure attraverso i componenti

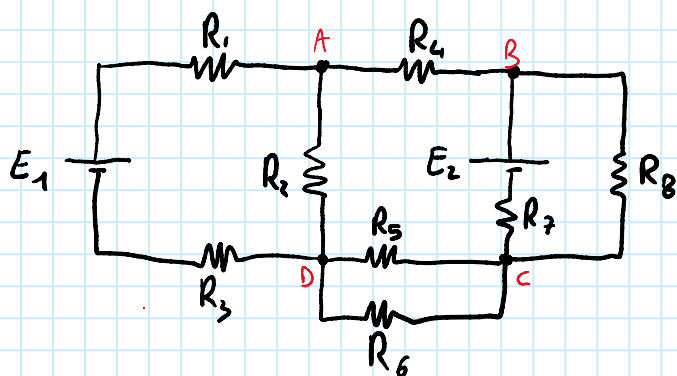
- $m_1 = \{r_1, r_2\}$  Oppure  $m_1 = \{R_1, R_2, R_3, R_4, R_6\}$
- $m_2 = \{r_2, r_3\}$  Oppure  $m_2 = \{R_4, R_6, R_5\}$



- $m_1 = \{r_1, r_6\}$  Oppure  $m_1 = \{R_1, R_2, R_3, R_4, R_6\}$
- $m_2 = \{r_2, r_5\}$  Oppure  $m_1 = \{R_4, R_6, R_5\}$
- $m_3 = \{r_1, r_3\}$  Oppure  $m_1 = \{R_1, R_2, R_3, R_5\}$

Esercizio

MODI: A, B, C, D



$$m_5 = \{R_2, R_5, R_8, R_4\}$$

$$m_{10} = \{R_2, R_6, R_7, R_4\}$$

$$m_{11} = \{R_2, R_6, R_7, R_4, E_2\}$$

RAMI:

$$RAMO 1 = \{E_2, R_7\}$$

$$RAMO 2 = \{R_8\}$$

$$RAMO 3 = \{R_4\}$$

$$RAMO 4 = \{R_5\}$$

$$RAMO 5 = \{R_6\}$$

$$RAMO 6 = \{R_7\}$$

$$RAMO 7 = \{R_1, E_1, R_3\}$$

$$m_1 = \{R_1, R_2, R_3, E_1\}$$

$$m_2 = \{R_4, E_2, R_7, R_5, R_6\}$$

$$m_3 = \{E_2, R_7, R_8\}$$

$$m_4 = \{R_5, R_6\}$$

$$m_5 = \{E_1, R_1, R_3, R_4, E_2, R_7\}$$

$$m_6 = \{E_1, R_1, R_3, R_4, E_2, R_7, R_6\}$$

$$m_7 = \{E_1, R_3, R_5, R_6, R_4, R_2\}$$

$$m_8 = \{E_1, R_3, R_6, R_7, R_4, R_2\}$$