

$$R_1 = \frac{\Delta V_{AB}}{i_1}$$

$$R_2 = \frac{\Delta V_{AB}}{i_2}$$

$$R_{eq} = \frac{\Delta V_{AB}}{i_{eq}}$$

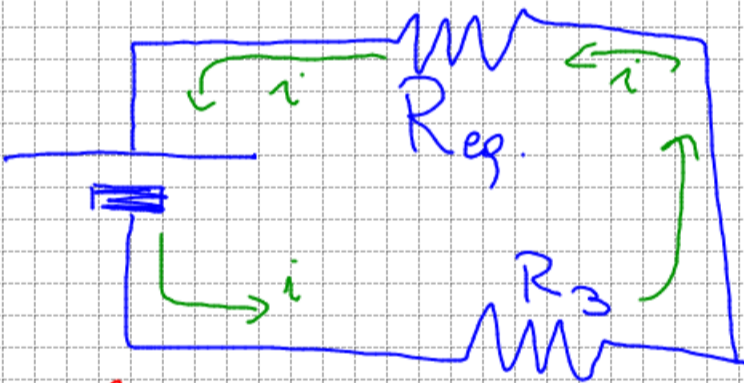
$$i_{eq} = i$$

$$i = i_1 + i_2$$

$$\frac{\Delta V_{AB}}{R_{eq}} = \frac{\Delta V_{AB}}{R_1} + \frac{\Delta V_{AB}}{R_2}$$

$$\frac{1}{R_{eq}} = \frac{1}{R_1} + \frac{1}{R_2}$$

$$R_{eq} = \frac{R_1 \cdot R_2}{R_1 + R_2}$$



$$R_{TOT} = R_{eq} + R_3$$

n° 29 pag. 926

DATI:

$$R = 50 \Omega$$

kg di neve?

$$\Delta V = 220V$$

$$L_f = 334 \text{ KJ/kg}$$

$$\Delta t = 20 \text{ min}$$

$$P = \Delta V \cdot i$$

$$P = \frac{\Delta V^2}{R}$$

$$P = 968 \text{ W}$$

$$P = \frac{L}{\Delta t}$$

$$L = P \cdot \Delta t = 968 \text{ W} \cdot 1200 \text{ s} = 1,2 \cdot 10^6$$

$$L = L_f \cdot m$$

$$m = \frac{L}{L_f} = \frac{1,2 \cdot 10^6 \text{ J/kg}}{3,34 \cdot 10^5 \text{ J}} = 3,5 \text{ kg}$$