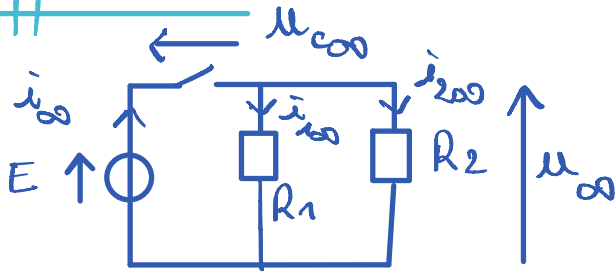


Chapitre 5

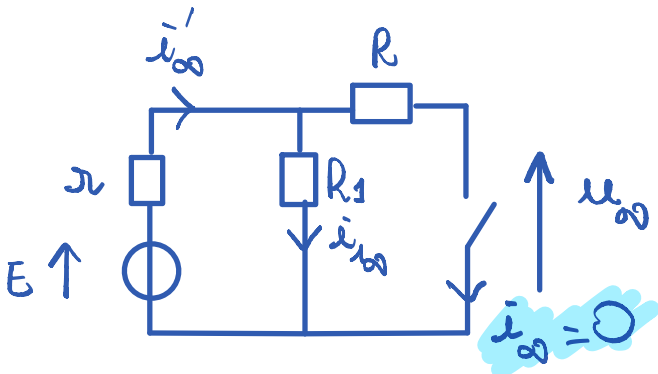
Application 1



$$i_{\infty} = 0 \text{ car } \text{---} \text{---}$$

$$\rightarrow i_{1\infty} = i_{2\infty} = 0$$

loi des mailles : $E = u_{c\infty} + u_{\infty} \Rightarrow u_{c\infty} = E$



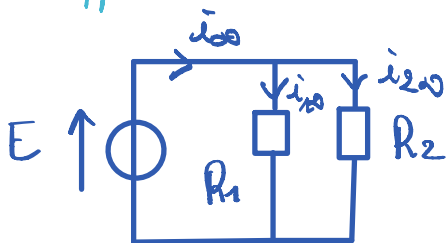
$$i_{\infty} = 0 \Rightarrow i'_{\infty} = i_{1\infty}$$

loi des mailles : $E = r i'_{\infty} + R_1 i_{1\infty}$

$$i'_{\infty} = i_{1\infty} = \frac{E}{r + R_1}$$

tension aux bornes de R = 0 $\Rightarrow u_{\infty} = R_1 i_{1\infty} = R_1 \frac{E}{r + R_1}$

Application 2



$R_1 \parallel R_2$: $R_{eq} = \frac{R_1 R_2}{R_1 + R_2}$

$$i_{\infty} = \frac{E}{R_{eq}}$$

$$i_{1\infty} = i_{\infty} \frac{R_2}{R_1 + R_2}$$

$$i_{2\infty} = i_{\infty} \frac{R_1}{R_1 + R_2}$$

(pont diviseur de courant)