

on pose

$$\left. \begin{array}{l} R_1 \cdot EK\sqrt{3} = V_s \\ R_4 \end{array} \right\}$$

$$\frac{2R_2 + R_3}{R_4 + R_2} = 2$$

$$3 \frac{R_2}{R_3} = \frac{R_1}{R_4}$$

$$\Leftrightarrow \frac{R_1}{R_4} = \frac{\sqrt{s}}{KE\sqrt{3}}$$

$$\Leftrightarrow R_2 = \frac{\sqrt{s}}{3\sqrt{3}KE} R_3$$

$$\text{Donc } \frac{R_2}{R_3} = \frac{\sqrt{s}}{3\sqrt{3}KE}$$

$$\Leftrightarrow R_1 = \frac{\sqrt{s}}{KE\sqrt{3}} R_4 \Leftrightarrow R_4 = \frac{KE\sqrt{3}}{\sqrt{s}} R_1$$

$$\text{Orme, } 2R_2 + R_3 = 2(R_4 + R_2)$$

$$\Leftrightarrow R_3 \left(\frac{2\sqrt{s}}{KE\sqrt{3}} + 1 \right) = 2 \left(R_4 + \frac{\sqrt{s}}{3\sqrt{3}KE} R_3 \right)$$

$$\Leftrightarrow R_3 \left(\frac{2\sqrt{s}}{KE\sqrt{3}} + 1 - \frac{2\sqrt{s}}{3\sqrt{3}KE} \right) = 2R_4$$

$$\Leftrightarrow R_3 \left(\frac{2\sqrt{s}}{KE\sqrt{3}} + 1 - \frac{2\sqrt{s}}{3\sqrt{3}KE} \right) = 2 \cdot \frac{KE\sqrt{3}}{\sqrt{s}} R_1 \quad | \quad R_1 \text{ fixé}$$

$$\Rightarrow R_3 = \frac{2\sqrt{3}KE \cdot R_1}{\sqrt{s}} - \frac{1}{\frac{4\sqrt{s}}{3\sqrt{3}KE}}$$

$$\Rightarrow R_3 = R_1 \cdot \frac{(3KE)^2}{2\sqrt{s}^2}$$

$$\Leftrightarrow R_2 = \frac{2}{3} R_1 \cdot \frac{3\sqrt{3}KE}{4\sqrt{s}}$$

$$\Rightarrow R_2 = \frac{1}{2} R_1 \cdot \frac{\sqrt{3}KE}{\sqrt{s}}$$

$$\Rightarrow R_4 = R_1 \cdot \frac{KE\sqrt{3}}{\sqrt{s}}$$

$m \in \{ -\sqrt{3}, \sqrt{3} \}$

$$\frac{R_1 + k\sqrt{3}}{R_4} = v_s$$

$$\frac{2R_2 + R_3}{R_4 + R_2} = 2 \quad \Rightarrow \quad 2 \frac{R_2}{R_4 + R_2} + \frac{R_3}{R_4 + R_2} = 2$$

$$3 \frac{R_2}{R_3} = \frac{R_1}{R_4} \quad \Rightarrow \quad \frac{3}{R_1} = \frac{R_2 R_4}{R_3}$$

in fixe R_1 ($R_1 = 11 \text{ k}\Omega$)

in prior und unc matrice.

