



celkem zleva doprava majšak proud v  $E_1$

$$E_1 \cdot \frac{1}{1-p}$$

celkem zprava dolera majšak proud v  $E_2$ :

$$E_2 \cdot \frac{1}{1-p}$$

celkem zleva doprava majšak proud v  $E_2$ :

$$(1-A_1) \cdot E_2 \cdot \frac{1}{1-p}$$

celkem zprava dolera majšak proud v  $E_1$ :

$$(1-A_2)E_1 \cdot \frac{1}{1-p}$$

zleva doprava — sprava dolava :

$$\begin{aligned}
 & \left( E_1 \cdot \frac{1}{1-p} + (1-A_1)E_2 \frac{1}{1-p} \right) - \\
 & - \left( E_2 \cdot \frac{1}{1-p} + (1-A_2E_1) \frac{1}{1-p} \right) = \\
 & = \frac{1}{1-p} \left( E_1 + E_2 - A_1E_2 - E_2 - E_1 + A_2E_1 \right) \\
 & = \frac{A_2E_1 - A_1E_2}{1-p} = \frac{A_2E_1 - A_1E_2}{1 - (1-A_1) \cdot (1-A_2)} = \\
 & = \frac{A_2E_1 - A_1E_2}{A_1 + A_2 - A_1A_2} = \frac{E_1 - E_2}{\frac{1}{A_2} + \frac{1}{A_1} - 1} = \\
 & = \sigma_0 \left( T_1^Y - T_2^Y \right) = \frac{1}{\frac{1}{\varepsilon_1} + \frac{1}{\varepsilon_2} - 1}
 \end{aligned}$$