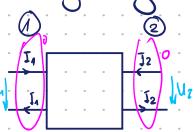
Strenparameter

Mehrborgleichungen



Impedanzmahix

$$\begin{pmatrix} V_{A} \\ V_{2} \end{pmatrix}^{2} \begin{pmatrix} Z_{AA} & Z_{A2} \\ Z_{2A} & Z_{22} \end{pmatrix} \begin{pmatrix} J_{1} \\ I_{2} \end{pmatrix}$$

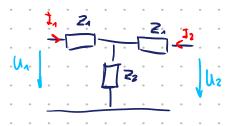
$$Z_{AA} = \frac{U_A}{I_{A=0}}$$

$$Z_{A2} = \frac{U_A}{I_{A=0}}$$

$$Z_{24}\Big|_{7z=0} = \frac{U_2}{14}$$

$$Z_{24}\Big|_{T_2=0} = \frac{U_2}{T_4}$$
 $Z_{22}\Big|_{T_4=0} = \frac{U_2}{T_2}$

Bsp. T-Tok Ched



Admillanzmatrix

$$\begin{pmatrix} I_{1} \\ J_{2} \end{pmatrix} = \begin{pmatrix} Y_{11} & Y_{12} \\ Y_{21} & Y_{22} \end{pmatrix} \begin{pmatrix} U_{1} \\ U_{2} \end{pmatrix}$$

$$|Y_{AA}| = \frac{\underline{t}_A}{U_A}$$

$$|Y_{AA}| = \frac{\underline{t}_A}{\underline{U}_A} \qquad |Y_{A2}| = \frac{\underline{t}_A}{\underline{V}_A}$$

$$|Y_{2A}|_{U_2=0} = \frac{I_2}{U_A} \qquad |Y_{22}|_{=\infty} = \frac{I_2}{U_2}$$

$$y_{22} = \frac{1}{U_2}$$

Wait hein Potential unterschied

$$Z_{AA} = \frac{V_{A}}{I_{A}} = Z_{A} + Z_{2}$$

$$I_{A} = Z_{A} + Z_{2}$$

$$Z_{N2}\Big|_{I_{\lambda}=0} = \frac{U_{\lambda}}{I_{2}} = Z_{2}$$

$$Z_{2A}|_{I_2=0} = \frac{V_1}{I_A} - Z_2$$

$$Z_{22}|=\frac{V_2}{T_2}=Z_1+Z_2$$

$$a_{i} = \frac{V_{h_{i}}}{\sqrt{2}ii}$$

$$V_{h} = \frac{1}{2} \left(V_{0} + \overline{I}_{0} Z_{i} \right)$$

$$V_{r} = \frac{V_{r}}{2} \left(V_{0} - \overline{I}_{0} Z_{i} \right)$$

$$b_{i} = \frac{V_{r_{i}}}{\overline{I}_{2}}$$

$$b_{1} = S_{11} \cdot \alpha_{1} + S_{12} \cdot \alpha_{2}$$

$$S_{11} = \frac{b_1}{a_1}\Big|_{a_2=0} = (1 + \frac{b_1}{a_2}) = \frac{b_1}{a_1}\Big|_{a_1=0}$$

$$S_{21} = \frac{b_2}{\alpha_1} \Big|_{\Omega_2 = 0}$$
 $S_{22} = \frac{b_2}{\alpha_2} \Big|_{\Omega_1 = 0} = 0$

Reziproh

Anpassung

$$Sii = 0$$
, $Ci = Ca^*$

Sii =
$$\frac{Z_{Ei} - Z_{Li}}{Z_{Ei} + Z_{Li}}$$

Sij = $\frac{2U}{U_{Oi}} \sqrt{\frac{Z_{Li}}{Z_{Li}}}$

Bsp

