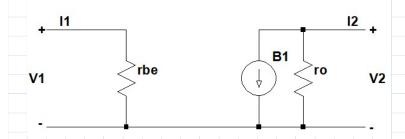
Lektion 7, Y-parametre

13-03-2018

Bestem y-parametrene for kredsløbet / 2-porten.



$$I_1 = y_{11} \boldsymbol{\cdot} V_1 + y_{12} \boldsymbol{\cdot} V_2$$

$$I_2 = y_{21} \boldsymbol{\cdot} V_1 + y_{22} \boldsymbol{\cdot} V_2$$

$$V_2 = 0$$

$$y_{11} = \frac{I_1}{V_1}$$
 $y_{11} := \frac{\frac{V_1}{r_{be}}}{V_1} \rightarrow \frac{1}{r_{be}}$

$$I_2 \coloneqq \widehat{oldsymbol{eta}} \cdot i_b \qquad i_b \coloneqq rac{\widehat{oldsymbol{V}_1}}{r_{ba}}$$

$$egin{align} I_2 &:= & egin{align} oldsymbol{i}_b &:= & oldsymbol{V_1} \\ \hline y_{21} &= & oldsymbol{I_2} \\ \hline V_1 & & y_{12} &:= & egin{align} eta \cdot i_b \\ \hline V_1 & & \hline r_{be} \\ \hline \end{array}$$

$$V_1 \coloneqq 0$$

$$y_{12} = \frac{I_1}{V_2}$$
 $y_{12} \coloneqq \frac{\frac{V_1}{r_{be}}}{V_2} \rightarrow 0$

$$y_{22} = rac{I_2}{V_2}$$
 $y_{22} \coloneqq rac{rac{v_2}{r_o}}{V_2}
ightarrow rac{1}{r_o}$