

$$z_{11} = \frac{V_1}{I_1} \Big|_{I_2=0} \quad z_{12} = \frac{V_1}{I_2} \Big|_{I_1=0} \quad z_{21} = \frac{V_2}{I_1} \Big|_{I_2=0} \quad z_{22} = \frac{V_2}{I_2} \Big|_{I_1=0}$$

$$y_{11} = \frac{I_1}{V_1} \Big|_{V_2=0} \quad y_{12} = \frac{I_1}{V_2} \Big|_{V_1=0} \quad y_{21} = \frac{I_2}{V_1} \Big|_{V_2=0} \quad y_{22} = \frac{I_2}{V_2} \Big|_{V_1=0}$$

$$a_{11} = \frac{V_1}{V_2} \Big|_{I_2=0} \quad a_{12} = -\frac{V_1}{I_2} \Big|_{V_2=0} \quad a_{21} = \frac{I_1}{V_2} \Big|_{I_2=0} \quad a_{22} = -\frac{I_1}{I_2} \Big|_{V_2=0}$$

$$b_{11} = \frac{V_2}{V_1} \Big|_{I_1=0} \quad b_{12} = -\frac{V_2}{I_1} \Big|_{V_1=0} \quad b_{21} = \frac{I_2}{V_1} \Big|_{I_1=0} \quad b_{22} = -\frac{I_2}{I_1} \Big|_{V_1=0}$$

$$h_{11} = \frac{V_1}{I_1} \Big|_{V_2=0} \quad h_{12} = \frac{V_1}{V_2} \Big|_{I_1=0} \quad h_{21} = \frac{I_2}{I_1} \Big|_{V_2=0} \quad h_{22} = \frac{I_2}{V_2} \Big|_{I_1=0}$$

$$g_{11} = \frac{I_1}{V_1} \Big|_{I_2=0} \quad g_{12} = \frac{I_1}{I_2} \Big|_{V_1=0} \quad g_{21} = \frac{V_2}{V_1} \Big|_{I_2=0} \quad g_{22} = \frac{V_2}{I_2} \Big|_{V_1=0}$$