T56

$$I_{T_1} = A_{T_1} = A_{T_2} = A_{T_1} = A_{T_2} = A_{T$$

$$Z_{1} = \frac{V_1}{I_1} \Big|_{I_2 = 0} \qquad Z_{12} = \frac{V_1}{I_2} \Big|_{I_1 = 0}$$

$$\angle z_1 = \frac{V_2}{I_1}\Big|_{I_2=0}$$
 $\angle z_2 = \frac{V_2}{I_2}\Big|_{I_1=0}$

$$I_{12} = V_1 \cdot \left(\frac{q+1}{A2} + \frac{a}{A3} \right)$$

$$I_{\tau_1} = V_1 \cdot \left(\frac{1 + \frac{1}{4}}{B_2} + \frac{\Lambda}{B_3} \right)$$

$$Z_{11} = \frac{V_1}{I_1} = \frac{V_1}{V_1 \cdot \frac{1}{P_1} + I_{T_1} + I_{P_2}}$$

$$Z_{11} = \frac{1}{\frac{1}{B_1} + \frac{1}{B_3} + \frac{2+a+\frac{1}{a}}{B_2}}$$

$$Z_{1Z} = \frac{V_{1}}{I_{2}} = \frac{V_{1}}{I_{R3} + I_{f2} - I_{R2}} = \frac{V_{1}}{-\frac{V_{1}}{R999} - 4V_{1}(\frac{1}{R_{1}} + \frac{1+6}{R_{2}}) - \frac{V_{1}+4V_{1}}{R_{2}}}$$

$$Z_{1}Z = \frac{1}{-\frac{1}{B_{3}a} - \frac{a}{B_{1}} - \frac{a^{2}+1+2a}{B_{2}}}$$

$$Z_{22} = \frac{\sqrt{2}}{I_{1}}\Big|_{I=0} = \frac{\sqrt{2}}{\sqrt{2}}\frac{V_{1}}{I_{2}}\Big|_{I=0} = -\alpha Z_{12}$$

$$Z = \begin{pmatrix} 0.31 & -0.31 \\ -0.31 & 0.31 \end{pmatrix}$$