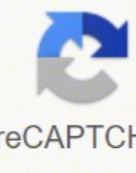


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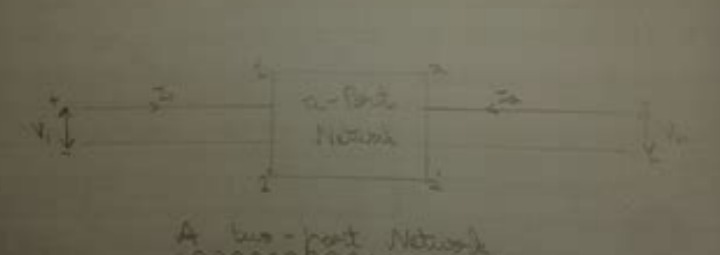
**Continue**

When  $I_2 = 0$   
 $R_{th} = 1 + 2 = 3 \text{ k}\Omega$   
 $I_2 = \frac{V_2}{R_2} = \frac{12}{3} = 4 \text{ mA}$ ,  $V_2 = 2 \times I_2$   
 $I_2 = 4 \text{ mA}$ ,  $V_2 = 8 \text{ V}$   
 $Z_{in} = \frac{V_1}{I_1} = \frac{8}{4} = 2 \text{ k}\Omega$ ,  $Z_{out} = \frac{V_2}{I_2} = \frac{8}{4} = 2 \text{ k}\Omega$   
 $Z_{in} = 2 \text{ k}\Omega$ ,  $Z_{out} = 2 \text{ k}\Omega$

For circuit 8  
 When  $I_2 = 0$   
 $R_{th} = 5 + 10 = 15 \text{ k}\Omega$   
 $I_2 = \frac{V_2}{R_2} = \frac{12}{15} = 0.8 \text{ mA}$ ,  $V_2 = 10 \times I_2$   
 $I_2 = 0.8 \text{ mA}$ ,  $V_2 = 8 \text{ V}$   
 $Z_{in} = \frac{V_1}{I_1} = \frac{8}{0.8} = 10 \text{ k}\Omega$ ,  $Z_{out} = \frac{V_2}{I_2} = \frac{8}{0.8} = 10 \text{ k}\Omega$

When  $I_2 = 0$   
 $R_{th} = 5 + 10 = 15 \text{ k}\Omega$   
 $I_2 = \frac{V_2}{R_2} = \frac{12}{15} = 0.8 \text{ mA}$ ,  $V_2 = 10 \times I_2$   
 $I_2 = 0.8 \text{ mA}$ ,  $V_2 = 8 \text{ V}$   
 $Z_{in} = \frac{V_1}{I_1} = \frac{8}{0.8} = 10 \text{ k}\Omega$ ,  $Z_{out} = \frac{V_2}{I_2} = \frac{8}{0.8} = 10 \text{ k}\Omega$

Now determination of open circuit impedance parameters (Z-parameters) of the given T circuit and their interconnection in parallel-parallel fashion and verify the result.



A two-port network



Exp. No. \_\_\_\_\_ Page No. 17

Q1)  $Y_{11}$  or  $Y_{22}$   
 Observed value =  $1.76 \text{ mS}$ , Calculated value =  $1.8 \text{ mS}$   
 $\% \text{ age error} = \frac{|\text{Observed} - \text{Calculated}|}{\text{Calculated}} \times 100 = 2.2\%$

Q2)  $Y_{12}$  or  $Y_{21}$   
 Observed value =  $0.57 \text{ mS}$ , Calculated value =  $0.6 \text{ mS}$   
 $\% \text{ age error} = \frac{|\text{Observed} - \text{Calculated}|}{\text{Calculated}} \times 100 = 5\%$

Results & Conclusion

Y-parameters of a given interconnected network as follows:

Parameter	Experimental	Theoretical
$Y_{11}$	$1.76 \text{ mS}$	$1.8 \text{ mS}$
$Y_{12}$	$0.57 \text{ mS}$	$0.6 \text{ mS}$
$Y_{21}$	$0.57 \text{ mS}$	$0.6 \text{ mS}$
$Y_{22}$	$1.76 \text{ mS}$	$1.8 \text{ mS}$

The short circuit admittance parameters (Y-parameters) of the given network & their interconnection in parallel-parallel fashion have been verified.

Teacher's Signature: \_\_\_\_\_



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