3 PRINCIPLES AND THEOREMS FOR LINEAR NETWORKS

3.1 Linear Network

A linear circuit is made of linear components connected with voltage and current sources. The voltage/current ratio of a linear component is a straight line through the origin. For a resistor, V = RI . This relationship is a straight line through the origin with slope equal to R. When the input to a linear circuit is doubled the response is also doubled. Linear networks also obey Superposition theorem. The circuits in Fig. 3.1(a), (b), and (c) are examples of limear networks.

A two port network is introduced in Fig. 3.1(d) and (e). A two port network has two ports or four terminals. The current in the input terminals are equal and opposite. The current in the output terminals are equal and opposite. A single resistor can also form two port networks as illustrated in Fig. 3.2.

Problem 3.1

Calculate the currents in the resistors of Fig. 3.1 (a), (b) and (c). Compare the results.

S-oliution.

Fig. 3.1 (a)

The total resistance is 2 Ω in series with the parallel combination of 3 Ω and 1 Ω and is given as

$$R_r = 2 + 3//1 = 2 + \frac{3 \times 1}{3 + 1} = \frac{11}{4} \Omega$$

$$I_1 = \frac{5}{11/4} = \frac{20}{11} = 1.8182 \text{ A}$$

I2 and I3 are obtained with current divide ratio.

$$I_2 = I_1 \frac{3}{3+1} = \frac{20}{11} \times \frac{3}{4} = \frac{15}{11} = 1.3636 \text{ A}$$

$$I_3 = I_1 \frac{1}{3+1} = \frac{20}{11} \times \frac{1}{4} = \frac{5}{11} = 0.4545 \text{ A}$$

The total resistance is the same as in Fig. 3.1(a)

$$R_F = \frac{11}{4} \Omega$$

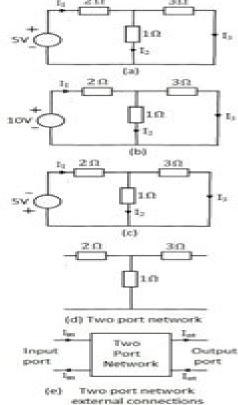


Fig. 3.1 Two port networks.

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Mr. Rohit Manglik

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Transmission Networks and Wave Filters Timothy Edward Shea,1929 Mathematical Perspectives on Neural Networks Paul Smolensky, Michael C. Mozer, 2013-05-13 Recent years have seen an explosion of new mathematical results on learning and processing in neural networks This body of results rests on a breadth of mathematical background which even few specialists possess In a format intermediate between a textbook and a collection of research articles this book has been assembled to present a sample of these results and to fill in the necessary background in such areas as computability theory computational complexity theory the theory of analog computation stochastic processes dynamical systems control theory time series analysis Bayesian analysis regularization theory information theory computational learning theory and mathematical statistics Mathematical models of neural networks display an amazing richness and diversity Neural networks can be formally modeled as computational systems as physical or dynamical systems and as statistical analyzers Within each

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