

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 linear 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.

Solution

Fig. 3.1 (a)

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

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

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

I_2 and I_3 are obtained with current divide ratio.

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

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

Fig. 3.1 (b)

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

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

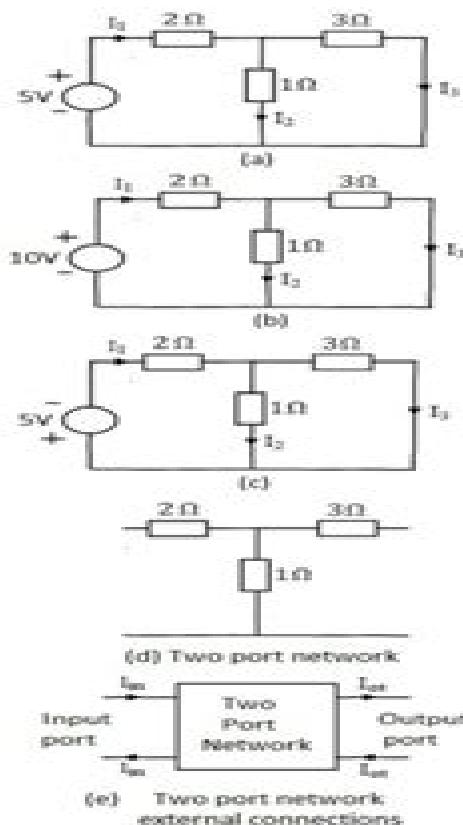


Fig. 3.1 Two port networks.

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Paul M. Chirlian



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Serves As A Text For The Treatment Of Topics In The Field Of Electric Networks Which Are Considered As Foundation In Electrical Engineering For Undergraduate Students Includes Detailed Coverage Of Network Theorems Topology Analogous Systems And Fourier Transforms Employs Laplace Transform Solution Of Differential Equations Contains Material On Two Port Networks Classical Filters Passive Synthesis Includes State Variable Formulation Of Network Problems Wide Coverage On Convolution Integral Transient Response And Frequency Domain Analysis Given Digital Computer Program For Varieties Of Problems Pertaining To Networks And Systems Each Topic Is Covered In Depth From Basic Concepts Given Large Number Of Solved Problems For Better Understanding The Theory A Large Number Of Objective Type Questions And Solutions To Selected Problems Given In Appendix

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comprehensive and technically rich view of the wireless communications scene from a cooperation point of view

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Network Provisioning Michel Kadoch, *Basic Network Theory* Paul M. Chirlian, 1969 **Mathematical Perspectives on Neural Networks** Paul Smolensky, Michael C. Mozer, David E. Rumelhart, 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 of these three broad perspectives there are a number of particular approaches For each of 16 particular mathematical perspectives on neural networks the contributing authors provide introductions to the background mathematics and address questions such as Exactly what mathematical systems are used to model neural networks from the given perspective What formal questions about neural networks can then be addressed What are typical results that can be obtained and What are the outstanding open problems A distinctive feature of this volume is that for each perspective presented in one of the contributed chapters the first editor has provided a moderately detailed summary of the formal results and the requisite mathematical concepts These summaries are presented in four chapters that tie together the 16 contributed chapters three develop a coherent view of the three general perspectives computational dynamical and statistical the other assembles these three perspectives into a unified overview of the neural networks field

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