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Generally speaking, network analysis is any structured technique used to mathematically analyze a circuit (a "network" of interconnected components). Quite often the technician or engineer will encounter circuits containing multiple sources of power or component configurations that defy simplification by series / parallel analysis techniques.

Keywords: Analysis, Convolution Method, Series and Parallel Network Circuits, Response. ———————— ———————— 1. INTRODUCTION A series or parallel network circuit consists of three basic electric elements-an inductor having inductance Ł, a capacitor having capacitance C, and a resistor having resistance.

The circuit elements are resistors, capacitors, inductors, voltage sources, current sources etc. Current, voltage, resistance, impedance, reactance, inductance, capacitance, frequency, electric power, electrical energy etc are the different electrical parameters we determine by network analysis. In short, we can say, an electrical network is the combination of different circuit elements and the network analysis or circuit analysis is the technique to determine the different electrical ...

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Step 1 − In the above network, two 6 Ω resistors are connected in parallel. So, the equivalent resistance between D & E will be 3 Ω. This can be obtained by doing the following simplification. $$R_{DE} = \frac{6 \times 6}{6 + 6} = \frac{36}{12} = 3 \Omega$$ In the above network, the resistors 4 Ω and 8 Ω are connected in series. So, the equivalent resistance between F & G will be 12 Ω.
A network, in the context of electrical engineering and electronics, is a collection of interconnected components. Network analysis is the process of finding the voltages across, and the currents through, all network components. There are many techniques for calculating these values. However, for the most part, the techniques assume linear components. Except where stated, the methods described in this article are applicable only to linear network analysis.
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Resistive circuit analysis. Kirchhoff’s Laws Figure 1

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