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solution of all basic network analysis problems. Following a brief discussion of maximum power transfer, the chapter closes with a section on nonlinear circuit

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A Circuit which contains on many electrical elements such as resistors, capacitors, inductors, current sources and Voltage source (both AC and DC) is called Complex network.

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From the perspective of graph theory and network science, this book introduces, motivates and explains techniques for modeling brain networks as graphs of nodes connected by edges, and

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treatment of the fundamental topics in network theory. The contents of the book are developed in such a manner that the

only prerequisite for a course based on this text is an elementary knowledge of circuit analysis.

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

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