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of packets and information around the
network. (Shortest Path, Loops, Lost
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Network Synthesis is used to monitor the
effect of combining different network
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Network analysis starts with a network and by applying the various electric circuit theorems predicts the response of the network. Network synthesis on the other hand, starts with a desired response and its methods produce a network that outputs, or approximates to, that response. Network synthesis was originally intended to produce filters of the kind formerly described as wave filters but now usually just called filters.

Circuits and Networks: Analysis and Synthesis by A. Sudhakar

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[Network synthesis - Wikipedia](#)

Network synthesis is a design technique for linear electrical circuits. Synthesis

starts from a prescribed impedance function of frequency or frequency response and then determines the possible networks that will produce the required response. The technique is to be compared to network analysis in which the response of a given circuit is calculated. Network synthesis was a great leap forward in circuit design. Prior to network synthesis, only network analysis was available, but this requires the [Network synthesis filters - Wikipedia](#) The revision of this extremely popular text, Circuits and Networks: Analysis and Synthesis, comes at a time when the industry is increasingly looking to hire engineers who are able to display learning outcomes. The book has been revised based on internationally accepted Learning Outcomes required from a course.

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