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In network analysis in the time domain voltage-current relationship are given in terms of differential equations. While in synthesis the complex frequency domain are in algebraic equations. The algebraic equation is the more easily solved than differential equation. In network analysis characteristic signals may be time variant or time invariant.

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It's mostly used to monitor the movement of packets and information around the network. (Shortest Path, Loops, Lost Packets) So to answer the question, Network Synthesis is used to monitor the effect of combining different network segments, while Network Analysis is just used to monitor the movement of information around the network.

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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 Analysis and Synthesis book by Ravish R. Singh ... CIVILDATAS*. Download Links.

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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.

*Network synthesis - Wikipedia*

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