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found to be as:  $A_0$  at  $s=0$  is  $= 640/9 = 71.11$ ; so we find  $C_0 = 1/A_0 = 1 / 71.11 = 0.0141$  Farad.  $A_1$  at  $s = -j3$  is  $= 350/18 = 19.45$ . Now we know  $L_i$  and  $C_i$  of the parallel network is calculated as.  $C_1 = 1/(2A_1)$  Foster's Form 1 and 2 of Network Synthesis with examples ... Network analysis starts with a network and by applying the various electric circuit theorems predicts the response of 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. Prior to network synthesis, only network analysis was available, but this requires that one already knows what form of circuit is to be analysed. Th NETWORK ANALYSIS &

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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. *Network synthesis - Wikipedia*  
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