

The synthesis of low-pass active RC ladder networks by the recurrent-continuant method

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SUMMARY

A new procedure for the synthesis of low-pass active RC ladder networks by the recurrent-continuant transformation has been proposed. The transformation scheme consists of simple determinant operations which are carried out subsequent to a frequency transformation and addition of certain parameters to the prescribed all-pole transfer function. The proposed method is more general than those described earlier, and simple as compared with the synthesis procedures based on coefficient matching methods. The method has been illustrated by realizing a number of 3rd and 4th-order characteristic functions. The proposed scheme, with slight modification, is also capable of realizing double ladder networks. The modified scheme has been described with an appropriate example in the third order. The capacitors in all the realized networks have been constrained to be unity. The methods yield multiple sets of values of the network elements and may be used with advantage to obtain optimized networks.

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1 Introduction

The recurrent-continuant transformation method is an elegant and versatile tool for the synthesis or analysis of ladder networks, and a number of transformation procedures have been described by various authors¹⁻⁴ for the realization of the low-pass transfer functions by different types of networks e.g. passive lossless and active RC (ARC) ladder networks. In the case of ARC ladder networks the relevant transformation procedure⁴ requires a priori assumption of the values of the passive elements, and the procedure in itself does not provide the way in which such an assumption can be made. This limitation has been removed in this paper by proposing a new recurrent-continuant transformation procedure. The procedure has been developed from the one described previously by the authors² in the context of passive RC ladders, and consists of frequency transformations and a number of determinant operations. The method is capable of yielding a large number of sets of element values and may be employed to adjust the values of the sum or spread of any particular type of element. In view of the suitability of equal valued capacitor (EVC) ARC structures for realization in microelectronic form, the values of the capacitors have been constrained to be unity in the proposed transformation. The method has been illustrated explicitly by realizing the 3rd and 4th-order EVC-ARC networks. A technique for the realization of double ladder networks through recurrent-continuant methods has also been described and illustrated.

2 Synthesis of EVC-ARC Networks

2.1 The Active Continuant and the Recurrent

The ARC low-pass ladder network proposed to be synthesized is shown in Fig. 1. The reciprocal of the voltage transfer function $V_{out}/V_{in} = F(s)$ of this network may be described by the following active continuant of order $2n$.

$$\frac{V_{in}}{V_{out}} = F(s) = \begin{vmatrix} R_1 & 1 & 0 & \dots & 0 & 0 & 0 & 0 \\ -1 & C_1 s & 1 & \dots & 0 & 0 & -A_1 C_1 s \\ 0 & -1 & R_2 & \dots & 0 & 0 & 0 & 0 \\ \vdots & \vdots & \vdots & \ddots & \vdots & \vdots & \vdots & \vdots \\ 0 & 0 & 0 & \dots & C_{n-1} s & 1 & -A_{n-1} C_{n-1} s \\ 0 & 0 & 0 & \dots & -1 & R_n & 1 \\ 0 & 0 & 0 & \dots & 0 & -1 & C_n s \end{vmatrix} \quad (1)$$

Under EVC constraint $C_i = 1$ ($i = 1, 2, 3, \dots, n$).

The prescribed low-pass characteristic may be described by an all-pole transfer function $H(s)$:

$$H(s) = \frac{1}{P(s)} = \frac{1}{\sum_{i=0}^n a_i s^i + 1} \quad (2)$$

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