

Abstracts

A method for the direct synthesis of cascaded quintuplets

T. Reeves and N. van Stigt. "A method for the direct synthesis of cascaded quintuplets." 2002 MTT-S International Microwave Symposium Digest 02.3 (2002 Vol. III [MWSYM]): 1441-1444 vol.3.

A new lowpass prototype configuration for a cascaded quintuplet is presented. The cascaded quintuplet is a cross-coupled filter structure that is used in microwave filter topologies to realize three finite frequency transmission zeros. The lowpass prototype can be converted into the cascaded quintuplet format using a series of equivalent circuit transformations. The method permits the direct synthesis of an arbitrary number of in-line cascaded quintuplets from the filter impedance function.

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