Abstracts

Computer-Aided Design of Microstrip Filters by Iterated Analysis

G.T. Roan and K.A. Zaki. "Computer-Aided Design of Microstrip Filters by Iterated Analysis." 1988 Transactions on Microwave Theory and Techniques 36.11 (Nov. 1988 [T-MTT]): 1482-1487.

An iterative method for the design of microstrip low-pass elliptic function filters is described. The method, which is a direct extension of [1], determines the microstrip line parameters that produce the same locations of the frequencies of transmission zeros and reflection zeros of an equivalent lumped-element prototype. Effects of the discontinuities at the junctions are easily accounted for in the iteration. A design example is included, and an experimental seventh-order filter designed and constructed using the procedure gives measured results which agree closely with theory.

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