

Abstracts

The Rigorous Analysis of Cascaded Step Discontinuities in Microstrip

C.J. Railton and T. Rozzi. "The Rigorous Analysis of Cascaded Step Discontinuities in Microstrip." 1988 Transactions on Microwave Theory and Techniques 36.7 (Jul. 1988 [T-MTT]): 1177-1185.

A rigorous analysis of boxed microstrip single step discontinuities and cascades of strongly coupled discontinuities is presented. Use is made of a variational formulation involving the expansion of the transverse E field at the step in terms of suitable basis functions. Strongly coupled steps are analyzed using the concept of "localized" and "accessible" modes and making use of a network model. The method is applied to a five-section low-pass filter.

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