

Abstracts

Tolerance Analysis of Cascaded Structures (Short Papers)

J.W. Bandler and M.R.M. Rizk. "Tolerance Analysis of Cascaded Structures (Short Papers)." 1980 Transactions on Microwave Theory and Techniques 28.8 (Aug. 1980 [T-MTT]): 935-938.

This paper presents an analysis scheme to obtain the response of a cascaded network and its first-order sensitivities wrt design variables at the vertices of the tolerance region in an efficient and systematic way. This information is needed in worst-case search algorithms to identify the worst vertex or in a general tolerance assignment. A substantial saving in computational effort is achieved by using the new approach over the basic approach of reanalyzing the circuit at every vertex.

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