Abstracts

Computer-Aided Noise Analysis of Linear Multiport Networks of Arbitrary Topology

V. Rizzoli and A. Lipparini. "Computer-Aided Noise Analysis of Linear Multiport Networks of Arbitrary Topology." 1985 Transactions on Microwave Theory and Techniques 33.12 (Dec. 1985 [T-MTT] (1985 Symposium Issue)): 1507-1512.

The paper discusses a new algorithm for the noise analysis of a linear multiport network. The circuit may include any kind of passive components introducing thermal noise only, and any number of two-port devices described by the usual four noise parameters. On output, the algorithm produces the correlation matrix of the Norton equivalent noise current sources at the network ports. The approach is suitable for implementation into any general-purpose microwave circuit design program.

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