

Abstracts

Microwave Circuit Analysis Using the Equivalent Generator Concept

T. Nemoto and D.F. Wait. "Microwave Circuit Analysis Using the Equivalent Generator Concept." 1968 Transactions on Microwave Theory and Techniques 16.10 (Oct. 1968 [T-MTT]): 866-873.

To facilitate a scattering matrix analysis of complicated microwave circuit problems, an equivalent generator approach has been developed. The equivalent generator parameters are stated in terms of the parameters of the actual circuit elements. These statements are expressed in terms of special determinants which make the results easier to remember, and easier to use. Three different types of problems are solved to demonstrate the utility of the method; the response from generalized reflectometers, the properties of cascaded multiports in terms of its elements, and the properties of multiports whose number of available ports have been reduced.

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