

Abstracts

Modeling of High Frequency MMIC Passive Components

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The fullwave Green's function and Method of Moments approach is recognized as the most general and accurate solution method to the problem of high frequency modeling of MMIC passive circuit components. However, the computer codes derived on the basis of that method are usually computationally intensive. Several numerical techniques that significantly improve both the accuracy and efficiency of the method are presented. The numerical procedures do not reduce the generality of the method. The numerical technique is described as it has been applied to the problem of the enclosed or boxed microstrip structure. Results for the closed structure open-end and step discontinuities are presented.

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