Abstracts

Efficient and Versatile Analysis of Microwave Structures by Combined Mode Matching and Finite Difference Methods

M. Mongiardo and R. Sorrentino. "Efficient and Versatile Analysis of Microwave Structures by Combined Mode Matching and Finite Difference Methods." 1993 Microwave and Guided Wave Letters 3.8 (Aug. 1993 [MGWL]): 241-242.

A combined mode matching (MM) and finite difference (FD) method is proposed for the analysis of passive microwave structures. By segmenting the structure into regions of separable geometries and irregular ones, where MM and FD are applied separately, the respective generalized admittance matrix (GAM) representations are obtained. This makes it possible to take advantage of the high numerical efficiency of the MM method as well as of the versatility of the FD method.

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