Abstracts

Generalized admittance matrix of arbitrary E-plane waveguide junctions by the BI-RME method

P. Arcioni, M. Bressan and G. Conciauro. "Generalized admittance matrix of arbitrary E-plane waveguide junctions by the BI-RME method." 1999 MTT-S International Microwave Symposium Digest 99.4 (1999 Vol. IV [MWSYM]): 1699-1702 vol.4.

This paper describes an efficient boundary integral technique for the determination of the quasi-static generalized Y-matrix of building blocks of E-plane waveguide components. This matrix is a part of the pole expansion of the Y-matrix in the frequency domain. Calculating the remaining part by the BI-RME method, and using the technique described in this paper, we obtain a very efficient algorithm for the wideband modeling of E-plane building blocks. Some examples demonstrate the efficiency of the algorithm.

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