

Generalized Y-matrix of arbitrary H-plane waveguide junctions by the BI-RME method

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This paper describes the extension of the BI-RME method to the determination of the generalized Y-matrix of arbitrary H-plane waveguide junctions. The method yields this matrix in the form of a pole expansion in the frequency domain. The generalized matrix is very useful in the wideband analysis of complex structures that include the junction as a building block. An example demonstrates the advantages of this extension of the BI-RME method.

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