Abstracts

Multiport analysis of arbitrary circular-rod insets in rectangular waveguide by the generalized admittance matrix

An original generalized admittance matrix (GAM) approach for the analysis of multiport junctions in rectangular waveguide having an arbitrary circular-rod inset is presented. The method is based on an efficient computation of the GAM for the blocks that compose the structure. The accuracy and efficiency of the method developed has been assessed by comparing the results obtained with some measured data and with data obtained by FEM.

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