

Analysis of MMIC junctions and multiports by the method of lines

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The approach based on the method of lines for the analysis of cascaded MMIC elements is substantially extended for investigations of 4-port components. Instead of a three-dimensional discretization, two crossed two-dimensional discretization line systems are employed for the modeling of the central region. S-parameters of various multiports, T-junctions and crossings containing air-bridges, are calculated.

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