Abstracts

Generalized distributed nonlinear device modeling for Krylov-subspace based microwave circuit analysis

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The paper introduces a new approach to the description of microwave devices by distributed models of complex topology. Each model is treated as a nonlinear subcircuit arbitrarily described on a nodal basis and interacting with the rest of the network through a number of external ports. A suitable formulation of the model equations allows harmonic-balance analysis to be carried out in a most efficient way by Krylov-subspace methods.

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