

Abstracts

Advanced Node Formulations in TLM--The Adaptable Symmetrical Condensed Node

V. Trenkic, C. Christopoulos and T.M. Benson. "Advanced Node Formulations in TLM--The Adaptable Symmetrical Condensed Node." 1996 Transactions on Microwave Theory and Techniques 44.12 (Dec. 1996, Part II [T-MTT] (1996 Symposium Issue)): 2473-2478.

The paper describes the development of a class of adaptable symmetrical condensed (ASCN) transmission-line modeling (TLM) nodes. The parameters and numerical properties of the ASCN are expressed in terms of arbitrary weighting functions which can be selected in a manner that minimizes dispersion and improves accuracy. It is shown that this approach is effective and can be used to optimize nodal properties according to problem requirements.

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