

On the Time Step in Hybrid Symmetrical Condensed TLM Nodes

V. Trenkic, C. Christopoulos and T.M. Benson. "On the Time Step in Hybrid Symmetrical Condensed TLM Nodes." 1995 Transactions on Microwave Theory and Techniques 43.9 (Sep. 1995, Part I [T-MTT]): 2172-2174.

New formulas for the maximum permissible time step in TLM hybrid nodes modeling anisotropic media are introduced and analyzed. It is shown that the value of the time step in most cases can be higher than that suggested by the minimum node dimension. The chosen value of the time step has significant impact on the dispersion characteristics of the hybrid symmetrical condensed node.

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