Abstracts

Moving Boundaries in 2-D and 3-D TLM Simulations Realized by Recursive Formulas

U. Mueller, A. Beyer and W.J.R. Hoefer. "Moving Boundaries in 2-D and 3-D TLM Simulations Realized by Recursive Formulas." 1992 Transactions on Microwave Theory and Techniques 40.12 (Dec. 1992 [T-MTT] (1992 Symposium Issue)): 2267-2271.

In this paper a novel technique for arbitrary boundary positioning in TLM networks will be described. This capability removes the restriction that dimensions of TLM models can only be integer multiples of the mesh parameter and allows superior boundary resolution. Since the position of boundaries can be continuously varied even during a simulation, this feature can model moving boundaries for time domain optimization and phenomena such as the Doppler effect.

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