Abstracts

Study of Absorbing Boundary Conditions in the 3D-TLM Symmetrical Condensed Node Model

Z. Chen, M.M. Ney and W.J.R. Hoefer. "Study of Absorbing Boundary Conditions in the 3D-TLM Symmetrical Condensed Node Model." 1992 MTT-S International Microwave Symposium Digest 92.1 (1992 Vol. I [MWSYM]): 369-372.

The TLM method is a numerical technique based on temporal and spatial sampling of electromagnetic fields. As with the FD-TD method, the absorbing boundary conditions are needed to truncate computational regions when open structures are simulated. The Finite-Difference Time-Domain absorbing boundary conditions have been adapted to and implemented in the 3D-TLM symmetrical condensed node model. It is also demonstrated that instability may occur due to spurious modes of the 3D-TLM condensed node mesh.

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