Abstracts

Super Absorption Boundary Condition for Guided Waves in the 3-D TLM Simulation

A super absorption boundary condition (SABC) for the 3-D symmetrical condensed node transmission line matrix (3D SCN TLM) method is presented. As both an electric field and a magnetic field exist at the same time and position, SABC may be more suitable for the 3-D SCN TLM method than for the finite difference time domain (FD-TD) method. To illustrate the effectiveness of the boundary condition, SABC is used to truncate the computational domain of an open microstrip line. It performs better than the Higdon first- and second-order conditions and the Higdon second-order condition with spurious mode suppressed.

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