Abstracts

Analysis of Multiport Discontinuities in Waveguide Using a Pulsed FDTD Approach

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A pulsed finite-difference time-domain (FDTD) approach for computing the scattering parameters of multiport waveguide discontinuities and junctions is presented. Wideband absorbing boundary conditions (ABC's) necessary for implementation of the technique are derived. Applications of the technique are presented, and computed results are compared to measurements for several examples.

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