

Efficient 3D-SCN-TLM Diakoptics for Waveguide Components (1994 Vol. I [MWSYM])

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In this paper the efficiency of the diakoptic procedure, when applied to three-dimensional waveguide discontinuity problems, is improved by taking advantage of the separability of the time domain Green's function that holds for homogeneous waveguides. The procedure has been applied to the analysis of waveguide discontinuities showing how absorbing boundaries generated with the modal diakoptic procedure provide wideband matching for the fundamental mode as well as all of the TE and TM modes excited by the discontinuity.

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