

Abstracts

Time-Domain Method of Lines Applied to a Partially Filled Waveguide

S. Nam, S. El-Ghazaly, H. Ling and T. Itoh. "Time-Domain Method of Lines Applied to a Partially Filled Waveguide." 1988 MTT-S International Microwave Symposium Digest 88.2 (1988 Vol. II [MWSYM]): 627-630.

A new time-domain method for the analysis of guided wave propagation and scattering is developed in which an analytical process is incorporated along one of the three dimensions in space, so that the problem is effectively reduced to a two-dimensional one. A simple numerical example is presented as a demonstration of the new method.

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