

Abstracts

The TLM-equivalent FD-TD analysis of antenna radiation problems with the PML absorbing conditions

Jian Xu and Zhizhang Chen. "The TLM-equivalent FD-TD analysis of antenna radiation problems with the PML absorbing conditions." 1997 MTT-S International Microwave Symposium Digest 1. (1997 Vol. 1 [MWSYM]): 329-332.

This paper presents the applications of the TLM-equivalent FD-TD method to analysis of a three-dimensional antenna problems by using the modified perfectly matched layer (MPML). The calculations of a cavity-back antennas mounted on a conducting plane are performed and the radiation patterns of the antennas are obtained. The results demonstrate the effectiveness and efficiency of the MPML in the TLM based algorithm.

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