

Abstracts

Modeling of frequency-dependent magnetized plasma in hybrid symmetrical condensed TLM method

M.I. Yaich, M. Khalladi, I. Zekik and J.A. Morente. "Modeling of frequency-dependent magnetized plasma in hybrid symmetrical condensed TLM method." 2002 Microwave and Wireless Components Letters 12.8 (Aug. 2002 [MWCL]): 293-295.

In this paper, magnetized plasma media are modeled using the time-domain TLM method with hybrid symmetrical condensed node (HSCN). The proposed technique consists in adding voltage sources characterizing dispersive media in the HSCN. Numerical results are presented for reflection and transmission coefficients for a magnetized plasma wall, proving the efficiency of the proposed model.

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