

Abstracts

Multi-resolution 2D-TLM technique using Haar wavelets

I. Barba, J. Represa, M. Fujii and W.J.R. Hoefer. "Multi-resolution 2D-TLM technique using Haar wavelets." 2000 MTT-S International Microwave Symposium Digest 00.1 (2000 Vol. I [MWSYM]): 243-246.

A first approach to a Haar-wavelet based multi-resolution formulation of the TLM method is proposed. The technique exploits the equivalence between TLM and FDTD methods, taking advantage of previous work based on the latter (MRTD). To validate it, we have computed the cutoff frequencies in a rectangular waveguide. Results have been compared with data obtained by the traditional 2D-TLM method, and with the analytical values.

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