

Mesh grading and cutoff frequencies in the frequency-domain TLM method

J. Hesselbarth and R. Vahldieck. "Mesh grading and cutoff frequencies in the frequency-domain TLM method." 1998 MTT-S International Microwave Symposium Digest 98.3 (1998 Vol. III [MWSYM]): 1551-1554.

The Frequency-Domain Transmission Line Matrix (FDTLM) method is extended to the calculation of cutoff frequencies in waveguides. The influence of mesh grading on the accuracy of the solutions is analyzed for different kinds of nodes, showing clear differences in numerical dispersion between them. Analytical solutions give further insight into the behaviour of the FDTLM method.

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