Abstracts

An Improved TLM Full-Wave Analysis Using a Two Dimensional Mesh

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An improved TLM full-wave analysis method based on a novel TLM node is described. Compared to the conventional TLM full-wave analysis, which requires a three dimensional mesh, this method utilizes only a two dimensional transmission line mesh to fully characterize dispersive guided structures. This leads to a significant reduction in CPU time and memory space, and makes the TLM method an even more attractive tool in the analysis of arbitrarily shaped guided structures. Numerical results are given for shielded and suspended coupled didectric waveguides.

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