Abstracts

A New Finite-Difference Time-Domain Formulation Equivalent to the TLM Symmetrical Condensed Node

A new Finite-Difference Time-Domain (FD-TD) formulation is proposed. It is shown to be exactly equivalent to the symmetrical condensed node model used in the Transmission Line Matrix (TLM) Method. Due to a better field resolution and fulfillment of continuity conditions, the new FD-TD formulation or its TLM equivalent model have less dispersion and better accuracy than the traditional FD-TD method based on Yee's scheme.

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