Abstracts

A Class of Symmetrical Condensed Node TLM Methods Derived Directly from Maxwell's Equations (Reply to Comments)

In our paper we derive the three-dimensional symmetrical condensed node TLM algorithm using a characteristic based field decomposition of Maxwell's equations. We obtain identical scattering and transfer events as those originally presented in [2]. The goal and eventual result of our investigation was to present a mathematically sound method for deriving the TLM scattering and transfer events directly from Maxwell's equations (without recourse to the approximation of space by a mesh of transmission lines). The statement made by Krumpholz and Russer, that the derivation presented in [1] is erroneous, is not valid and the two specific points they raise will now be considered.

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