

Abstracts

Improved Wire Modelling in TLM

A.P. Duffy, J.L. Herring, T.M. Benson and C. Christopoulos. "Improved Wire Modelling in TLM." 1994 Transactions on Microwave Theory and Techniques 42.10 (Oct. 1994 [T-MTT]): 1978-1983.

An important aspect in the application of transmission-line modelling (TLM) to microwave circuit and electromagnetic compatibility (EMC) simulation studies is the accurate modelling of wires and wire-like structures. This paper outlines the cause of errors arising from simplified descriptions often used when modelling wires by integrated solution methods in TLM. It proposes a simple solution which is validated against experimental results for a number of test configurations.

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