

Numerical parasitic reactances at the interface between FDTD mesh and lumped elements

L. Borzetta, F. Alimenti, P. Ciampolini, P. Mezzanotte, L. Roselli and R. Sorrentino. "Numerical parasitic reactances at the interface between FDTD mesh and lumped elements." 1999 MTT-S International Microwave Symposium Digest 99.4 (1999 Vol. IV [MWSYM]): 1585-1588 vol.4.

This contribution focuses on the accuracy degradation arising at the interface between lumped element (LE) models and FDTD algorithm. The presence of numerical parasitic reactances has been already noticed in the past. Here these reactances have been estimated and numerical experiments have been given to prove the validity of the estimation provided.

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