

## Efficient simulation of interconnect networks with frequency-dependent lossy transmission lines

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L.Y. Li, G.E. Bridges and I.R. Ciric. "Efficient simulation of interconnect networks with frequency-dependent lossy transmission lines." *2002 Microwave and Wireless Components Letters* 12.4 (Apr. 2002 [MWCL]): 131-133.

Accurate and efficient moment generation methods are important when using moment matching based circuit reduction techniques for the simulation of transients on transmission line networks. A modified matrix exponential method is presented for fast computation of the moments associated with frequency-dependent lossy transmission lines. Numerical examples are given which demonstrate the improved performance of the proposed method with respect to existing techniques.

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