

# Abstracts

## Efficient sensitivity analysis of transmission-line networks using model reduction techniques

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*R. Khazaka, P. Gunupudi and M. Nakhla. "Efficient sensitivity analysis of transmission-line networks using model reduction techniques." 2000 MTT-S International Microwave Symposium Digest 00.2 (2000 Vol. II [MWSYM]): 895-898.*

An analysis method, based on congruent transformation and model reduction, is described for evaluation of frequency and time domain sensitivity of networks which include lossy coupled transmission lines. The sensitivity can be calculated with respect to network components and parameters of transmission lines. The proposed algorithm provides a significant decrease in computational expense for sensitivity analysis.

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