Abstracts

SPICE-Compatible Models for Multiconductor Transmission Lines in Laplace-Transform Domain (Comments and Authors' Reply)

José M. Gómez, José I. Alonso and Antonije R. Djordjevic. "SPICE-Compatible Models for Multiconductor Transmission Lines in Laplace-Transform Domain (Comments and Authors' Reply)." 1999 Transactions on Microwave Theory and Techniques 47.9 (Sep. 1999, Part I [T-MTT]): 1750-1751.

The above paper presents two equivalent models compatible with SPICE for multiconductor transmission lines that permit us to analyze the time-domain response of this kind of structures. One model employs a Thévenin equivalent circuit and the other model is based on a hybrid model. Both models use mode decoupling in the frequency and contain controlled sources in the Laplace-transform domain. The above-mentioned technique allows us to handle lossy lines with frequency-dependent parameters.

❑ Return to main document.