

Abstracts

A new approach for the extraction of SPICE compatible models from measured parameters of microwave circuits

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A new and simple technique for implementing microwave and MMIC circuits and components into a general purpose time-domain simulator, such as SPICE, will be presented. The developed technique is based in a generalization the Method of Characteristics and use the S-parameters as only requirement to obtain the model, which is composed by input impedances and voltage controlled voltage sources, both frequency dependent. These controlled generators can be easily implemented into SPICE using the Analog Behavioral Modelling. The technique will be validated by comparisons between measured S-parameters and those obtained with developed model.

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