

Abstracts

Experimental circuit model generation of non-uniform coupled multi-conductor structures

S. Sercu and L. Martens. "Experimental circuit model generation of non-uniform coupled multi-conductor structures." 1997 MTT-S International Microwave Symposium Digest 3. (1997 Vol. III [MWSYM]): 1781-1784.

In the paper a new method is described for the experimental circuit modeling of non-uniform coupled multi-conductor structures. The method can handle a large number of coupled conductors N since it reduces the modeling of the $2N$ -port to the modeling of a number easier to model 4-port structures. All electrical properties, such as reflection, transmission, backward and forward crosstalk between the conductors of the structure are included in the model. To illustrate the method, a 35-pins high density backplane connector is modeled.

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