

Abstracts

Full-wave modeling and automatic equivalent-circuit generation of millimeter-wave planar and multilayer structures

T. Mangold and P. Russer. "Full-wave modeling and automatic equivalent-circuit generation of millimeter-wave planar and multilayer structures." 1999 Transactions on Microwave Theory and Techniques 47.6 (Jun. 1999, Part II [T-MTT]): 851-858.

A general method for the automated extraction of lumped-element equivalent circuits for linear passive reciprocal distributed microwave circuits from time-domain scattering signals is presented. The proposed method autonomously generates network topology as well as parameter values while preserving circuit properties like reciprocity and passivity. Modeling examples for a two- and three-port structure are given.

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