

Abstracts

Fast Computation of Multiport Parameters of Multiconductor Coupled Microstrip Lines (Short Papers)

Z. Chen. "Fast Computation of Multiport Parameters of Multiconductor Coupled Microstrip Lines (Short Papers)." 1995 *Transactions on Microwave Theory and Techniques* 43.6 (Jun. 1995 [T-MTT]): 1393-1395.

A fast approximate analysis method is presented for computing multiport parameters of uniform and nonuniform multiconductor coupled microstrip lines based on physical parameters considering dispersion and loss. A method for transient voltage analysis based on multiport S-parameters is also presented. The method is adequate for microwave and high-speed integrated circuit CAD software. Computed results for both S-parameters and transient voltages waveforms show good agreement with those by other methods or by measurement.

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