

Abstracts

Transient Analysis of Partially Coupled Lines (Short Papers)

T. Razban. "Transient Analysis of Partially Coupled Lines (Short Papers)." 1987 Transactions on Microwave Theory and Techniques 35.5 (May 1987 [T-MTT]): 530-533.

We propose a time-domain analysis method for partially coupled lines by dividing them into "tubes." A tube of order N is a set of N coupled lines of equal lengths for which transient analysis based on modal decomposition is well known. An interface problem occurs at the junction of tubes of different orders. Such a case is analyzed by introducing two operators, called dilatation and shrinkage.

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