

Abstracts

Time-Domain Analysis of Lumped-Distributed Networks

J.L. Allen. "Time-Domain Analysis of Lumped-Distributed Networks." 1979 *Transactions on Microwave Theory and Techniques* 27.11 (Nov. 1979 [T-MTT]): 890-896.

A new method for time-domain analysis of networks containing transmission lines and lumped linear/nonlinear elements is presented. A key feature of the method is a procedure for generating a system matrix in a manner that involves only sums of subnetwork (or element) terms (no products or quotients). Numerical integration algorithms are used to reduce the problem to a solution of sparse algebraic equations.

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