Abstracts

A Pseudo-Three-Dimensional Finite Element Analysis of Non-Uniform Multiconductor Transmission Lines

A. Khebir, A.B. Kouki and F.M. Ghannouchi. "A Pseudo-Three-Dimensional Finite Element Analysis of Non-Uniform Multiconductor Transmission Lines." 1994 MTT-S International Microwave Symposium Digest 94.2 (1994 Vol. II [MWSYM]): 713-716.

A two-dimensional finite element analysis is used with the distributed transmission lines model to analyze general non-uniform microwave transmission structures. An automated meshing scheme is employed to reduce the solution of the three-dimensional problem to one of solving a small number of two dimensional lines. The approach is briefly outlined and some representative result are presented. Results are compared to well established models to validate the method and are given for different structures to illustrate its versatility.

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