Abstracts

Accelerated computation of the propagation constants of multiconductor planar lines

O. Aghzout and F. Medina. "Accelerated computation of the propagation constants of multiconductor planar lines." 2000 Microwave and Guided Wave Letters 10.5 (May 2000 [MGWL]): 165-167.

This paper reports on an efficient and simple technique to speed up the full-wave analysis of strip/slot-like transmission lines embedded in a multilayered substrate. The method is primarily based on the use of interpolation techniques in the generation of the characteristic eigenvalue matrix. Moreover, the features of the basis functions are exploited so as to reduce the size of the working matrix by following the guidelines reported. It is demonstrated that important CPU time saving is achieved without sacrificing accuracy.

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