Abstracts

Clarification of a decoupling method for multiconductor transmission lines

F. Szidarovszky and O.A. Palusinski. "Clarification of a decoupling method for multiconductor transmission lines." 1999 Transactions on Microwave Theory and Techniques 47.5 (May 1999 [T-MTT]): 648-649.

The authors provide a clarification of a decoupling method employed in the analysis of multiconductor transmission lines. They show that the use of a similarity transformation yields more efficient and stable numerical algorithms for computation of eigenvalues and characteristic impedance/admittance matrices of the telegrapher's equations than those based on a congruence transformation. The algorithms are easy to implement in existing software and, thus, their utilization is recommended.

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