Abstracts

A Generalized Method for deriving the Space-Domain Green's Function in a Shielded, Multilayer Substrate Structure with Applications to MIS Slow-Wave Transmission Lines

T.G. Livernois and P.B. Katehi. "A Generalized Method for deriving the Space-Domain Green's Function in a Shielded, Multilayer Substrate Structure with Applications to MIS Slow-Wave Transmission Lines." 1989 Transactions on Microwave Theory and Techniques 37.11 (Nov. 1989 [T-MTT]): 1761-1767.

An efficient technique for deriving the space-domain Green's junction due to an arbitrarily oriented current in shielded, multilayer substrate structures is presented. The derived Green's function is then used to find the dispersion characteristics of single and symmetric coupled line MIS slow-wave structures. These results are compared to published theoretical and experimental data to verify the theory presented.

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