Abstracts

Analysis of Transmission Line Structures Using a New Image-Mode Green's Function (Short Papers)

I.T. Lu and R.L. Olesen. "Analysis of Transmission Line Structures Using a New Image-Mode Green's Function (Short Papers)." 1990 Transactions on Microwave Theory and Techniques 38.6 (Jun. 1990 [T-MTT]): 782-785.

A hybrid image-mode-moment method is developed for the quasi-TEM analysis of transmission lines of arbitrary cross section and number suspended between infinite parallel ground planes. This new method combines the conventional moment method and a new image-mode Green's function systematically in a single formulation. The moment method is employed to model the interaction between transmission lines, and the new image-mode method is used to furnish the Green's function of the parallel plates. Several configurations are studied and are compared with work given in the references where possible.

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