Abstracts

Efficient parameter computation of 2-D multiconductor interconnection lines in layered media by convergence acceleration of dielectric Green's function via Pade approximation

Ji Zheng and Zhengfan Li. "Efficient parameter computation of 2-D multiconductor interconnection lines in layered media by convergence acceleration of dielectric Green's function via Pade approximation." 1998 Transactions on Microwave Theory and Techniques 46.9 (Sep. 1998 [T-MTT]): 1339-1343.

In this paper, a novel method is presented for calculation of the capacitance matrix of two-dimensional (2-D) interconnection lines embedded in layered dielectric media. In this method, Pade approximation is used to accelerate the convergence of Green's function, which leads to obvious improvements of computational efficiency for interconnect parameters. The obtained results show good agreement with those in previous publications.

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