Titolo della pubblicazione: A Superficial Formulation for the broadband analysis of Planar Interconnects

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Lingua: Inglese.

Abstract: The paper presents a full-wave integral formulation of Maxwell’s equations for the analysis of planar interconnects typically used in PCBs. The presence of the dielectric is taken into account by means of the method of the Green’s function, whose components are efficiently computed using a polynomial fitting based on the Total Least Square method. This implementation has been included in the surface integral formulation and its numerical implementation SURFCODE, enabling the analysis of single-layered planar interconnects.

Keywords: Planar interconnects, Green’s function, Sommerfeld Integrals, superficial integral formulation.

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