Abstracts

Exponentially converging direct singular integral-equation methods in the analysis of microslot lines on layered substrates

J.L. Tsalamengas. "Exponentially converging direct singular integral-equation methods in the analysis of microslot lines on layered substrates." 1999 Transactions on Microwave Theory and Techniques 47.10 (Oct. 1999 [T-MTT]): 2031-2034.

Two recently developed moment-method-oriented direct singular integral-equation techniques are used for the exact analysis of planar layered microslot lines. These techniques enable filling of all matrix elements via exponentially converging real-axis spectral integrals while retaining the simplicity of conventional moment methods. The proposed algorithms yield highly accurate results both for the propagation constants and for the modal surface magnetic currents with comparatively low computational cost.

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