

Abstracts

Rapidly converging spectral-domain analysis of shielded layered finlines

J.L. Tsalamengas. "Rapidly converging spectral-domain analysis of shielded layered finlines." 1999 Transactions on Microwave Theory and Techniques 47.6 (Jun. 1999, Part I [T-MTT]): 805-810.

A moment-method-oriented direct integral-equation technique is used for the exact analysis of a variety of boxed layered finlines. This technique retains the simplicity of conventional moment methods and optimizes them by recasting all matrix elements into rapidly converging series. The proposed algorithms yield highly accurate results for the modal currents and for the propagation constants of the dominant as well as all high-order modes.

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