

Abstracts

Characteristic impedance of microshield lines with arbitrary shield cross section

J.-F. Kiang. "Characteristic impedance of microshield lines with arbitrary shield cross section." 1998 *Transactions on Microwave Theory and Techniques* 46.9 (Sep. 1998 [T-MTT]): 1328-1331.

A generalized potential-matching method incorporating reflection matrices is developed to calculate the capacitance of microshield lines with trapezoidal, circular, and V-shaped shields. Both completely shielded and half-shielded lines are analyzed. The effects of membrane thickness, strip width, and gapwidth on the characteristic impedance are studied.

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