

Abstracts

Spectral-Domain Analysis of Single and Coupled Cylindrical Striplines (Short Papers)

M.D. Deshpande and C.J. Reddy. "Spectral-Domain Analysis of Single and Coupled Cylindrical Striplines (Short Papers)." 1987 Transactions on Microwave Theory and Techniques 35.7 (Jul. 1987 [T-MTT]): 672-675.

A spectral-domain technique for finding the characteristic impedances of a single cylindrical stripline and a coupled pair of cylindrical striplines is presented. Assuming a charge distribution on the strip, the variational expression for the line capacitance for single cylindrical strip-line is derived. Good agreement with published results is obtained. The cylindrical coupled strip and microstrip lines are also analyzed and a comparison with their planar counterparts is made.

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