

# Abstracts

## Accurate Analysis Equations and Synthesis Technique for Unilateral Finlines

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*P. Pramanick and P. Bhartia. "Accurate Analysis Equations and Synthesis Technique for Unilateral Finlines." 1985 Transactions on Microwave Theory and Techniques 33.1 (Jan. 1985 [T-MTT]): 24-30.*

Accurate analysis equations and synthesis techniques are presented for unilateral finlines, valid over a wide range of structural parameters and substrate dielectric constants ( $1 \leq \epsilon_r \leq 3.75$ ). These expressions are usable for computing the cutoff wavelength to within  $\pm 0.6$  percent, the guided wavelength to within  $\pm 2$  percent, and the characteristic impedance (based on the power-voltage definition) to within  $\pm 2$  percent, of the spectral-domain method, over the normalized frequency range  $0.25 \leq b/\lambda \leq 0.6$ .

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