

Abstracts

Accurate Analysis Equations and Synthesis Technique for Unilateral Finlines

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 ± 0.6 percent, the guided wavelength to within ± 2 percent, and the characteristic impedance (based on the power-voltage definition) to within ± 2 percent, of the spectral-domain method, over the normalized frequency range $0.25 \leq b/\lambda \leq 0.6$.

 [Return to main document.](#)