

# Abstracts

## Dispersion Characteristics of Strip Dielectric Waveguides (Short Papers)

---

K.S. Chiang. "Dispersion Characteristics of Strip Dielectric Waveguides (Short Papers)." 1991 *Transactions on Microwave Theory and Techniques* 39.2 (Feb. 1991 [T-MTT]): 349-352.

A simple and accurate dispersion relation is derived for the guided modes of a strip dielectric waveguide. This relation shows explicitly the effect of the width of the waveguide and involves only the solution for a single three-layer slab waveguide. It is discovered that there always exists a strip waveguide with a specific aspect ratio in which the  $E_x$  and  $E_y$  modes propagate at the same phase velocity.

[Return to main document.](#)

Click on title for a complete paper.