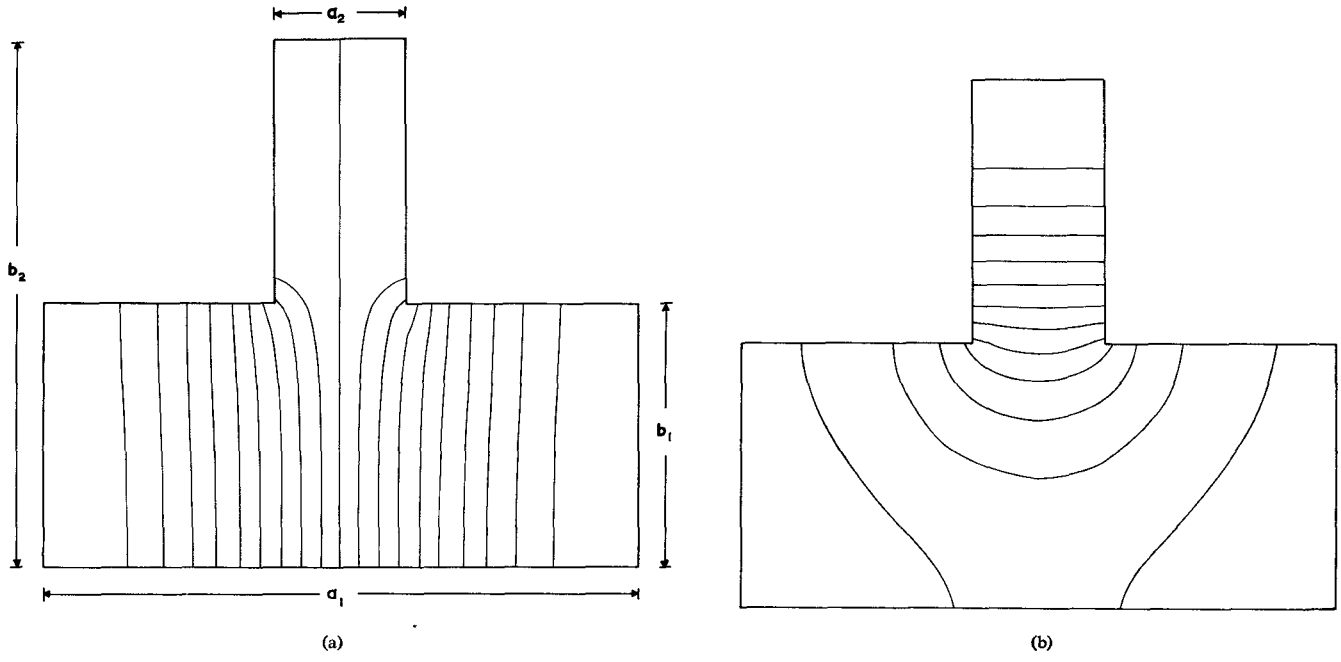

Fig. 1. (a) Electric field configuration for the TE_{10} mode. (b) Electric field configuration for the TE_{01} mode.

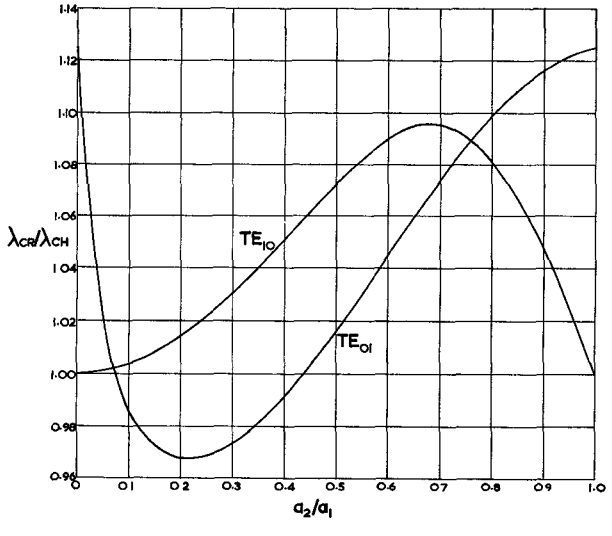

Fig. 2. Cutoff characteristics for the TE_{10} and TE_{01} modes in a channel waveguide having $b_1/a_1=0.444$ and $b_1/b_2=0.5$. λ_{CR} is the cutoff wavelength of a rectangular waveguide with broad dimension a_1, and λ_{CH} is the cutoff wavelength of the channel waveguide.

Cohn's method approximates the fundamental mode. As a_2/a_1 is increased from 0 to 1, Cohn's method initially follows the TE_{10} mode, then switches to the TE_{01} mode as it becomes the dominant mode, and finally changes back to the TE_{10} mode.

For practical applications the TE_{01} mode is obviously unwanted because its power-handling capacity is very small; however, it should be quite easy to ensure that only the TE_{10} mode is excited, because the polarizations of the two modes are orthogonal.

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Corrections to "Fringing Capacitance in Strip-Line Coupler Design"

The author of the above[1] wishes to thank Charles Lamensdorf, of the Hazeltine Corp., Greenlawn, N. Y., for pointing out the following.

A pi (π) symbol is missing in the first equation for the parameter s/b. The equation should read

$$\frac{s}{b}=\frac{2}{\pi}\operatorname{arc\,tanh}\left[\exp\frac{\pi\eta_0}{4\sqrt{\epsilon_r}}\left(\frac{1}{Z_2}-\frac{1}{Z_1}\right)\right].$$

While in the third equation given for s/b, the characteristic impedance (Z_0) should not appear under the radial sign. The equation should read

$$\frac{s}{b}=-\frac{1}{\pi}\ln\left[\tanh\left(\frac{\pi\eta_0}{4Z_0\sqrt{\epsilon_r}}\frac{k}{\sqrt{1-k^2}}\right)\right].$$

An additional correction is needed.

$W/b\geq 0.35$ rather than $W/b\rightarrow 0.35$.

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[1] J. Singletary, Jr., *IEEE Trans. on Microwave Theory and Techniques (Correspondence)*, vol. MTT-14, p. 398, August 1966.