

Correction to "Mutual Coupling between Parallel Plate Waveguides"

Y. E. ELMOAZZEN AND L. SHAFAI

In the above paper,¹ due to an error in the computer program, Figs. 5, 7, and 9 show incorrect results. The correct results are given in the revised figures shown here. The vertical axis in Fig. 5 appears as $|F(\theta)|^2$, where $F(\theta)$ is related to (19) by

$$\phi_s(\rho, \theta) = \left(\frac{2}{\pi K\rho} \right)^{1/2} \exp [i(K\rho - \pi/4)] F(\theta).$$

The preceding corrected results are compared with the results of other methods, which will be published at a later date. Other necessary corrections are as follows.

In (49), the argument of the gamma function should be $(n + 1)/2$. Fig. 4(b) and (c) must be interchanged. In (67), the argument of the exponential is $-ka \sin \theta$. In the second line, after (69), $x = d$ must be replaced by $x = a$. In the third line after (72), (63) must be replaced by (62). Equation (76) should appear as

$$\phi_{l,2,B}(x, z) = \sum_{m=1,3,5,\dots}^{\infty} T_{l,m}^{(B)} \cos \left(\frac{m\pi}{2a} x \right) \exp (-\gamma_m z). \quad (76)$$

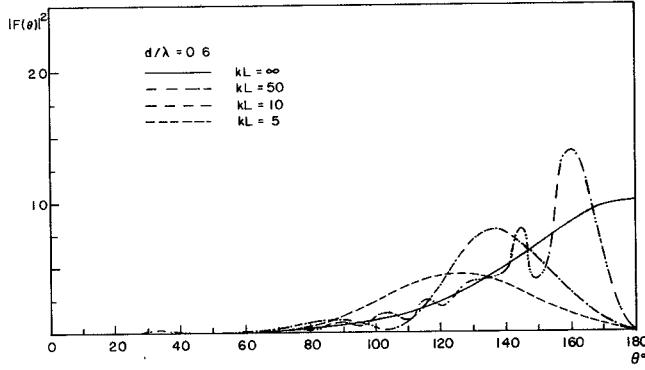


Fig. 5. Radiation pattern of $\text{TE}_{0,1}$ mode.

Manuscript received March 25, 1974.

The authors are with the Department of Electrical Engineering, University of Manitoba, Winnipeg, Man., Canada.
¹Y. E. Elmoazzzen and L. Shafai, *IEEE Trans. Microwave Theory Tech.* (1973 Symposium Issue), vol. MTT-21, pp. 825-833, Dec. 1973.

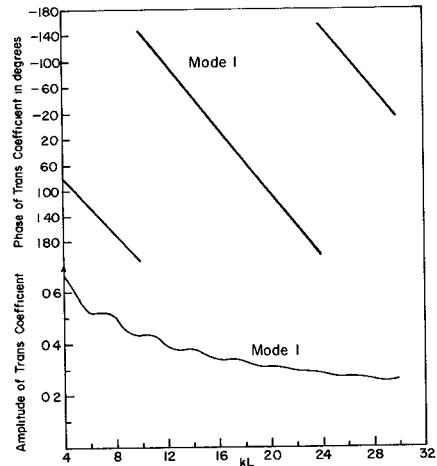


Fig. 7. Transmission coefficient of the $\text{TE}_{0,1}$ mode for $d/\lambda = 0.6$.

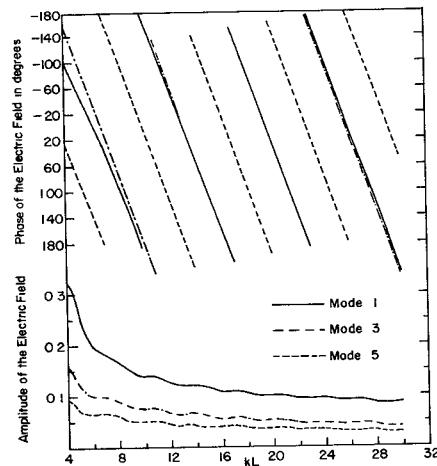


Fig. 9. Electric field at the center of the open end of the coupled waveguide for an exciting $\text{TE}_{0,1}$ mode with $d/\lambda = 0.6$.