Along this same line, (30), on p. 957, which reads

$$Y_{1o,e} \cong \frac{\sqrt{\epsilon_r}\,(C_{1o,e} - C_{2o,e}/2)}{120\pi} \tag{22}$$

should read

$$Y^u_{1o,e} \cong \frac{C_{1o,e} - C_{2o,e}/2}{120\pi\epsilon_0\sqrt{\epsilon_r}}. \tag{23}$$

Please note that for the coupled-line case, $Y^u_{1o,e}$ should only be used to calculate the discontinuity capacitance C_d. $Y^u_{1o,e}$ should not be used to calculate Γ, T, a, or d. Rather, $Y_{1o,e}$ should be used.

On p. 963, in Figs. 17 and 18, references to $C_{20,e/2}$ should read: $C_{2o,e}/2$. Also, in Fig. 18, the reference to $C_{10,e} - C_{10,e/2}$ should read $C_{1o,e} - C_{2o,e}/2$.

On p. 963, first column, the equations that read

$$v_{1o,e} = \frac{1}{\sqrt{\mu_0 L_{1o,e}\epsilon_0\epsilon_r C_{1o,e}}} \tag{24}$$

and

$$v_{2o,e} = \frac{1}{\sqrt{\mu_0 L_{2o,e}\epsilon_0\epsilon_r C_{2o,e}}} \tag{25}$$

instead should read, respectively,

$$v_{1o,e} = \frac{1}{\sqrt{L_{1o,e}C_{1o,e}}} \tag{26}$$

and

$$v_{2o,e} = \frac{1}{\sqrt{L_{2o,e}C_{2o,e}}}. \tag{27}$$

With these corrections implemented, the results of the paper can be shown to be correct, and the conclusions reported in the paper remain unaffected.

Comments on "Impedance Calculation of Three Narrow Resonant Strips on the Transverse Plane of a Rectangular Waveguide"

AN HONGMING

It has been called to the author's attention that the solution of (5) in the above paper[1] can be modified. In fact, $dj\overline{B}_T/df = 0$ yields

$$(F_1 + fF_2)(H_1 + fH_2) = 0$$

where

$$H_1 = F_2 \sum_{n=2}^{\infty} V_n Q_n^2 - F_1 \sum_{n=2}^{\infty} V_n Q_n S_n$$

$$H_2 = F_2 \sum_{n=2}^{\infty} V_n Q_n S_n - F_1 \sum_{n=2}^{\infty} V_n S_n^2 - F_1 \sum_{n=1}^{\infty} \sum_{m=1}^{\infty} U_{nm}$$

thereby giving the two solutions for the current ratio, i.e.,

$$f_1 = -\frac{F_1}{F_2}$$

$$f_2 = -\frac{H_1}{H_2}.$$

Obviously, f_1 results in $\overline{B}_T = 0$.

Instead of the solution (6) in the original paper, the above formulas are in simple form and may decrease the calculation time considerably.

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[1] K. Chang, *IEEE Trans. Microwave Theory Tech.*, vol. MTT-32, pp. 126–130, Jan. 1984.

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