

The sentence just before (A20) should read, "Upon choosing  $r_1 = -\infty$  and  $r_2 = +\infty$  and substituting  $U_0(s)$  into (A19), and then putting (A19) into (A12), we obtain."

In (A20),  $C_1$  and  $C_2$  should be replaced by  $\bar{C}_1$  and  $\bar{C}_2$  (different constants).

Equation (A25) should read

$$I(z) = \frac{1}{\sqrt{a(z)}} \left\{ e^{-j\beta_0 z} e^{-j\Delta\beta \int_{-\infty}^z e^{-\alpha t^2} dt} - \frac{1}{2} e^{j\beta_0 z} e^{-j\Delta\beta} \right. \\ \left. \left[ \sqrt{\pi/4\alpha} - \int_0^z e^{-\alpha t^2} dt \right] \cdot \int_{-\infty}^z \frac{a'(z')}{a(z')} e^{-2j\beta_0 z'} e^{-j\Delta\beta \int_0^{z'} e^{-\alpha t^2} dt} dz' \right\}.$$

The paragraph that follows (A22) should read, "By replacing  $\epsilon$  by  $-\epsilon$  and/or  $\Delta\beta$  by  $-\Delta\beta$  in (A22), the solution of (A2) can be found. The expression of  $i(z)$  will be identical to that of  $I(z)$  with  $\epsilon$  replaced by  $-\epsilon$  and/or  $\Delta\beta$  by  $-\Delta\beta$ ."

Equation (A24) should read

$$i_1(-\infty) = (\Delta\beta)^2 \left\{ \frac{\pi R}{h} e^{-R\beta_0^2/h} \right. \\ \left. - j \frac{2R\sqrt{\pi}}{h} e^{-R\beta_0^2/2h} \text{DAW} \left[ \beta_0 \sqrt{\frac{R}{2h}} \right] + 0(\Delta\beta)^4 \right\}$$

with

$$\text{DAW}(x) = e^{-x^2} \int_0^x e^{t^2} dt.$$

Equation (A25) should read

$$i_2(-\infty) = j\Delta\beta \sqrt{\frac{\pi R}{h}} e^{-R\beta_0^2/h} + 0(\Delta\beta)^3.$$

### Corrections to "Coupling of Degenerate Modes on Curved Dielectric Slab Sections and Application to Directional Couplers"

MOHAMED DEEB ABOUZAHRA, MEMBER, IEEE, AND LEONARD LEWIN, FELLOW, IEEE

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The authors are with the Department of Electrical Engineering, Campus Box 425, Engineering Center, University of Colorado, Boulder, CO 80309.

In the above paper,<sup>1</sup> the following corrections should be made. On page 1099, (29) should read

$$R = \psi e^{-2j\beta_0 l} \sin(2\Delta\beta l).$$

Equation (30) should read

$$D(z = -\infty) = -j \left\{ \Delta\beta \int_0^\infty e^{2j\beta_0 z - 2hc z^2} dz \right. \\ \left. + \psi e^{-2j\beta_0 l} \cos(2\Delta\beta l) \right\}.$$

Equation (31) should read

$$D(z = -\infty) = -j \{ \psi^* + \psi e^{-2j\beta_0 l} \cos(2\Delta\beta l) \}.$$

Consequently, Fig. 9 on page 1101 should be replaced by the following figure.

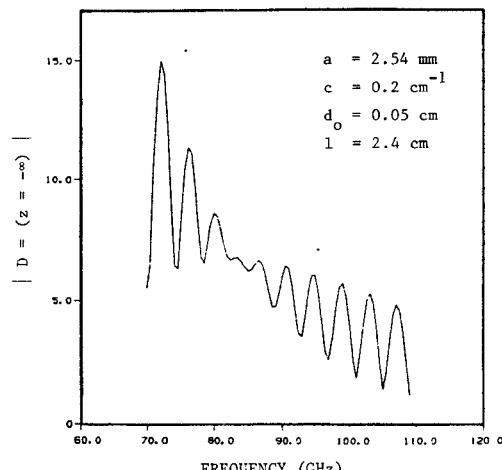


Fig. 9. Directivity versus frequency.

<sup>1</sup>M. D. Abouzahra and L. Lewin, *IEEE Trans. Microwave Theo. Tech.*, vol. MTT-28, pp. 1096-1101, Oct. 1980.