

Errata

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Periodic transmission lines for leaky-wave antenna applications at millimetre wavelengths

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Chapter 2.3., page 23, equation 1 and 2

The equation (1) should have form:

$$\mathbf{D} = (\epsilon_Y + j\epsilon_Y) \mathbf{E} \quad \mathbf{B} = (\mu_Y + j\mu_Y) \mathbf{H} \quad (1)$$

Were, \mathbf{E} is the electric field, \mathbf{D} is the electric flux density, \mathbf{H} is the magnetic field, and \mathbf{B} is the magnetic flux density.

The equation (2) should have form:

$$\epsilon_Z(\omega) = \frac{1}{p} \left(C_R - \frac{1}{\omega^2 L_L} \right) \quad \mu_Z(\omega) = \frac{1}{p} \left(L_R - \frac{1}{\omega^2 C_L} \right) \quad (2)$$

Chapter 2.3., page 24, equation 7

In equation (7), transmission parameter B (which has a dimension of impedance) is normalized to the characteristic impedance of the transmission line.

Chapter 3.3, page 36, equation 11

The equation (11) should have form:

$$k^2 = (\beta_Z - j\alpha_Z)^2 + (\beta_Y - j\alpha_Y)^2 \quad (13)$$