

Erratum: Near zone of an antenna in a magnetoactive plasma [Sov. Phys. JETP 62, 40 (July 1985)]

V. I. Karpman

Institute of Geomagnetism, the Ionosphere, and Radio Wave Propagation, Academy of Sciences of the USSR
Zh. Eksp. Teor. Fiz. **90**, 1136 (March 1986)

Because of an algebraic error the expressions for M_r and M_φ following Eq. (2.17) are incorrect. They should read

$$M_r = -\frac{1}{8\pi B_0} \operatorname{Re} \left(\frac{\omega \varepsilon^2}{\omega^2} \varepsilon E_r \cdot E_z - ig E_\varphi \cdot E_z \right),$$

and

$$M_\varphi = -\frac{1}{8\pi B_0} \operatorname{Re} \left(\frac{\omega \varepsilon^2}{\omega^2} \varepsilon E_\varphi \cdot E_z + ig E_r \cdot E_z \right)$$

Likewise, In Eqs. (2.18), (2.21), (3.2) and (3.4) $\partial M_z / \partial r$ should be replaced by $\theta M_z / \partial r - \partial M_r / \partial z$, and Eq. (2.21) has to be supplemented with the following relation defining b_φ :

$$\partial b_\varphi / \partial z = (4\pi / B_0) \partial M_\varphi / \partial r.$$

These changes do not affect the numerical estimates and other physical results presented in the paper.

Translated by D. L. Book