Sci. Rep. Kanazawa Univ.,
Vol. 19. No.1, pp. 93—94
June 1974

Errata

Electron Cyclotron Instability in a Spiraling Electron Beam-Plasma System

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Sci. Rep. Kanazawa Univ. **X VIII** *(1973) 1.*

(Received May 30, 1974)

In page 4, line 28 and page 7, line 29, read integer for positive integer.

In the determinant (2. 6. 7) in page 5, read $-\frac{d}{dr} H_l^{(2)}(ik_2r) \mid_{r_1} x\ P(+)$ for $-\frac{d}{dr} H_l^{(2)}(ik_2r) \mid_{r_1} x\ P(-)$, $\frac{d}{dr} H_l^{(1)}(ik_2r) \mid_{r_2} x\ P(+)$ for $\frac{d}{dr} H_l^{(1)}(ik_2r) \mid_{r_2} x\ P(-)$, $\frac{d}{dr} H_l^{(2)}(ik_2r) \mid_{r_2} x\ P(+)$ for $\frac{d}{dr} H_l^{(2)}(ik_2r) \mid_{r_2} x\ P(-)$ and $-\frac{Q_\pm}{r_2} K_l(k_1r_2) - P(+) \frac{d}{dr} K_l(k_1r) \mid_{r_2}$ for $-\frac{Q_\pm}{r_2} K_l(k_1r_2) - P(-) \frac{d}{dr} K_l(k_1r) \mid_{r_2}$.

Correct equation for (2. 7. 1) in page 5 is

$$\tanh k_2\Delta r = -\frac{\{-\frac{Q_\pm}{r_2} + k_1P(-)\}\ P(+)k_2 + \{\frac{Q_\pm}{r_1} + k_1P(-)\}\ P(+)k_2}{P(+)^2k^2{}_2 + \{\frac{Q_\pm}{r_1} + k_1P(-)\}}$$

Correct equation for (2. 7. 2) in page 5 is

$$\tanh k_2\Delta r = -\frac{2k_1k_2P(+)P(-)}{k^2{}_1P(-)^2 + k^2{}_2P(+)^2}$$

For equation (2. 7. 4) in page 5 and (3. 2. 2) in page 8, add the following condition

$$-\frac{\pi}{2} < \mathrm{Arg}\ k_1 < \frac{\pi}{2}$$

For equation (2. 7. 5) in page 5 and equation in page 9, line 1, add the following condition

$$-\frac{3\pi}{2} < \mathrm{Arg}\ k_2 < \frac{\pi}{2}$$

Correct equation (2. 7. 7) in page 6 is

$$\tanh k_2 \Delta r = -\frac{2k_1 k_2}{k^2{}_1 + k^2{}_2}$$

In page 7, line 8 and 9, read $A_1 = A_r + iA_\phi$ for $A_1 \exp i(\omega t - l\phi - kz) = A_r + iA_\phi$ and $A_2 = A_r - iA_\phi$ for $A_2 \exp i(\omega t - l\phi - kz) = A_r - iA_\phi$.

In order to identify the wave whose vector potential rotates in the same sense as the rotation of electron in the magnetic field as the right circulary polarized wave in § 3, reverse the direction of the magnetic field, i.e. substitute $-\omega_{ce}$ for ω_{ce} in the all equations.