ERRATA

APPROXIMATION FUNCTIONS TO THE EMDEN AND ASSOCIATED EMDEN FUNCTIONS NEAR THE FIRST ZERO, II

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A recent paper (Linnell, 1975) contains expressions to be used in analytic approximations to the functions θ , ψ_0 , ψ_2 . In programming these expressions for calculation by computer several errors were noted. They are as follows:

- (1) In the expression for G_5 , Equation (14), the final term should be $n[\xi_1|\theta'_1|]^{n-1} F_4$.
- (2) In Table III, the numerical value of G_5 should be $-0.000\ 051\ 78$.
- (3) In the expression for the $e_{2,k}$ series, Equation (34), the coefficient of $c_{2,i}$ should be

$$\sum_{m=1}^{k-i} \frac{1}{(k-i-m)!} \prod_{l=1}^{k-i-m} (n+l-5) C_m.$$

- (4) In the expression for the $f_{2,k}$ series, Equation (35), the coefficient of $c_{2,i}$ in the $[\xi_1|\theta'_1|]^{n-3}$ term should be

$$\sum_{m=1}^{k-1-i} \frac{L_{1,m}}{(k-1-i-m)!} \prod_{l=1}^{k-1-i-m} (n+l-5) C_m,$$

the coefficient of $c_{2,i}$ in the $[\xi_1|\theta'_1|]^{n-2}$ term should be

$$\sum_{m=1}^{k-1-i} \frac{D_{m+1}}{(k-1-i-m)!} \prod_{l=1}^{k-1-i-m} (n+l-5),$$

and, in the same term, the coefficient of $d_{2,i+1}$ should be

$$\sum_{m=1}^{k-1-i} \frac{C_m}{(k-1-i-m)!} \prod_{l=1}^{k-1-i-m} (n+l-5).$$

Reference

Linnell, A. P.: 1975, *Astrophys. Space Sci.* **37**, 401.