Erratum

Title : An analysis of the exactly solvable linear differential equations by the Modified Airy Function (MAF) method

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a) Corrected equations (28a), (28b) and (31) should be as follows :

$$\tilde{c}_1(c) = -\pi \frac{Bi[\xi(c, x)]}{\sqrt{\frac{\partial \xi(c, x)}{\partial x}}_{x=d=0}} \quad (28a)$$

$$\tilde{c}_2(c) = \pi \frac{Ai[\xi(c, x)]}{\sqrt{\frac{\partial \xi(c, x)}{\partial x}}_{x=d=0}} \quad (28b)$$

$$y_{EXACT}(c, \rho) = \frac{-4e^{-c/2} J_1(e^{c/2})Y_1(\rho) - Y_1(e^{c/2})J_1(\rho)}{J_0(e^{c/2}) - J_2(e^{c/2}) Y_1(e^{c/2}) + J_1(e^{c/2}) Y_2(e^{c/2}) - Y_0(e^{c/2})} \quad (31)$$

b) In page 351, the equations for constants have a missing 'l' as follows :

' $n^2 = A$ and $2mn^2 - n^3 = C$ ' should be as follows : ' $ln^2 = A$ and $2mln^2 - n^3 = C$ '

(c) Corrected equation (44) should be :

$$\tilde{c}_1(c) = \frac{-c^{-1/6} Bi \frac{1-c}{c^{2/3}} - c^{1/6} Bi' \frac{1-c}{c^{2/3}}}{Ai' \frac{1-c}{c^{2/3}} Bi \frac{1-c}{c^{2/3}} - Ai \frac{1-c}{c^{2/3}} Bi' \frac{1-c}{c^{2/3}}},$$

$$\tilde{c}_2(c) = \frac{-c^{-1/6} Ai \frac{1-c}{c^{2/3}} + c^{1/6} Ai' \frac{1-c}{c^{2/3}}}{Ai' \frac{1-c}{c^{2/3}} Bi \frac{1-c}{c^{2/3}} - Ai \frac{1-c}{c^{2/3}} Bi' \frac{1-c}{c^{2/3}}} \quad (44)$$

d) In page 356, the statement : 'where Z stands for the first order (Jp) or the Weber (Yp)-Neumann (Np) functions of the second order Bessel functions (which....' should be replaced by : 'where Z stands for the first kind (Jp) or the Weber (Yp)-Neumann (Np) functions of the second kind Bessel functions (which'