List of Errata

Handbook of First Order Partial Differential Equations, Taylor & Francis, 2002 by A. D. Polyanin, V. F. Zaitsev, and A. Moussiaux

Page 48: Equation 8:

Was: $\dfrac{\partial w}{\partial x}+\big[\cdots-b^2\lambda(\arctan x)^n n\big]\dfrac{\partial w}{\partial y}=0.$

Correct: $\dfrac{\partial w}{\partial x}+\big[\cdots-b^2\lambda(\arctan x)^n\big]\dfrac{\partial w}{\partial y}=0.$

Page 50: Equation 8:

Was: $\dfrac{\partial w}{\partial x}+\big[\cdots-b^2\lambda(\operatorname{arccot} x)^n n\big]\dfrac{\partial w}{\partial y}=0.$

Correct: $\dfrac{\partial w}{\partial x}+\big[\cdots-b^2\lambda(\operatorname{arccot} x)^n\big]\dfrac{\partial w}{\partial y}=0.$

Page 117: Solution of equation 3:

Was:

$$w=\begin{cases}\cdots & \text{if } a\neq 0,\\ -\dfrac{\beta}{\alpha}+e^{\alpha}b\Phi\big(x(cx+2d)-2by\big) & \text{if } a=0.\end{cases}$$

Correct:

$$w=\begin{cases}\cdots & \text{if } a\neq 0,\\ -\dfrac{\beta}{\alpha}+e^{\alpha x/b}\Phi\big(x(cx+2d)-2by\big) & \text{if } a=0.\end{cases}$$

Page 117: Solution of equation 4:

Was:

$$w=\begin{cases}\cdots & \text{if } a\neq 0,\\ -\dfrac{\beta}{\alpha}+e^{\alpha}b\Phi\big((cy+d)e^{-cx/b}\big) & \text{if } a=0.\end{cases}$$

Correct:

$$w=\begin{cases}\cdots & \text{if } a\neq 0,\\ -\dfrac{\beta}{\alpha}+e^{\alpha x/b}\Phi\big((cy+d)e^{-cx/b}\big) & \text{if } a=0.\end{cases}$$

Page 209: Remove comma in front of dt in solution to equation 4.

Page 216: Subsection 8.6.4, solution to equation 4:

Was:

$$w=\Phi(u_1,u_2)\Big\{\ldots\Big\},$$

Correct:

$$w=\Phi(u_1,u_2)\exp\Big\{\ldots\Big\},$$

Page 276: Footnote:

Was: Equations of the general form are discussed below in Subsection 12.2.4.

Correct: Equations of the general form are discussed below in Subsection 12.1.4.

Page 284: Equation (49):

Was:

$$H(x,y,\eta)=\int_0^{\eta}\varphi(\overline{\eta})\,\overline{\eta}+xZ\left(\frac{y-\eta}{x}\right). \tag{49}$$

Correct:

$$H(x,y,\eta)=\int_0^{\eta}\varphi(\overline{\eta})\,d\overline{\eta}+xZ\left(\frac{y-\eta}{x}\right). \tag{49}$$

Page 410: Item 2°, line 4 (equation):

Was:

$$\frac{\partial\Xi}{\partial C_m}+\frac{\partial\Xi}{\partial C_n}\frac{df(C_1,\dots,C_{n-1})}{dC_m}=0,\quad\dots$$

Correct:

$$\frac{\partial\Xi}{\partial C_m}+\frac{\partial\Xi}{\partial C_n}\frac{\partial f(C_1,\dots,C_{n-1})}{\partial C_m}=0,\quad\dots$$