



List of Errata

Handbook of Exact Solutions for Ordinary Differential Equations, 2nd Edition, Chapman & Hall/CRC Press, 2003 by A. D. Polyanin and V. F. Zaitsev

Page 10: Paragraph 0.1.6-1, line 3:
Was: The Abel equation (1) is not integrable for arbitrary f_n(x). ...
Correct: The Abel equation (1) is not integrable for arbitrary f_n(x) and g(x). ...

Page 36: Paragraph 0.3.2-8, line 5:
Was: ... a first-order equation for phi:
Correct: ... a first-order equation for y:

Page 39: Line 2:
Was: ... in the Taylor series expansion of a differential equation about ...
Correct: ... in the Taylor series expansion of a solution to a differential equation about ...

Page 81: Subsection 1.1.5, line 2:
Was: w'_x = (1 - n)f_1(x)w + (1 - n)f_n(x).
Correct: g(x)w'_x = (1 - n)f_1(x)w + (1 - n)f_n(x).

Page 204: Equation 16, last line:
Was: ... = g(t)u + f(t)u^n.
Correct: ... = g(t)u - f(t)u^n.

Page 219: Equation 62, solution in Item 2°:
Was:
y = { C1 * (d^n/dx^n) * cos(sqrt(4ax)) + C2 * (d^n/dx^n) * sin(sqrt(4ax)) if ax > 0,
 C1 * (d^n/dx^n) * cosh(sqrt(4|ax|)) + C2 * (d^n/dx^n) * sinh(sqrt(4|ax|)) if ax < 0.

Correct:
y = { C1 * (d^n/dx^n) * cos(sqrt(4bx)) + C2 * (d^n/dx^n) * sin(sqrt(4bx)) if bx > 0,
 C1 * (d^n/dx^n) * cosh(sqrt(4|bx|)) + C2 * (d^n/dx^n) * sinh(sqrt(4|bx|)) if bx < 0.

Page 236: Equation 179, line 4:
Was: z(1 - z)y_zz - (Ax + B)y'_z - Cy = 0, ...
Correct: z(1 - z)y_zz - (Az + B)y'_z - Cy = 0, ...

Page 434: Equation (6):
Was:
y_zz = (y'_z)^2 / y - y'_z / y + ... (6)

Correct:
y_zz = (y'_z)^2 / y - y'_z / z + ... (6)