



## List of Errata

### Handbook of Linear Partial Differential Equations for Engineers and Scientists, Chapman & Hall/CRC, 2002 by A. D. Polyanin

**Page 503:** Right-hand side of the equation before Paragraph 7.3.3-1:

**Was:**  $\dots = -\Phi(r, \varphi, z), \dots$

**Correct:**  $\dots = -\Phi(r, \varphi), \dots$

**Page 509:** Displayed equation at the fifth line:

**Was:**  $\frac{\partial^2 w}{\partial \xi^2} + \frac{\partial^2 w}{\partial \eta^2} + \dots$

**Correct:**  $\frac{\partial^2 w}{\partial u^2} + \frac{\partial^2 w}{\partial v^2} + \dots$

**Page 605:** Paragraph 9.2.2-1, 2nd and 3rd solutions:

**Was:**

$$w(x, t) = [A \sin(\lambda x) + B \cos(\lambda x) + C \sinh(\lambda x) + D \cos(\lambda x)] \sin(\lambda^2 at),$$

$$w(x, t) = [A \sin(\lambda x) + B \cos(\lambda x) + C \sinh(\lambda x) + D \cos(\lambda x)] \cos(\lambda^2 at),$$

**Correct:**

$$w(x, t) = [A \sin(\lambda x) + B \cos(\lambda x) + C \sinh(\lambda x) + D \cosh(\lambda x)] \sin(\lambda^2 at),$$

$$w(x, t) = [A \sin(\lambda x) + B \cos(\lambda x) + C \sinh(\lambda x) + D \cosh(\lambda x)] \cos(\lambda^2 at),$$

**Page 606:** Displayed equation at the last but one line:

**Was:**

$$\lambda_n = \frac{\mu_n}{l}, \quad \text{where } \mu_1 = 1.875, \quad \mu_2 = 4.694, \quad \mu_n = \frac{\pi}{2}(2n - 1) \quad \text{for } n \geq 3.$$

**Correct:**

$$\lambda_n = \frac{\mu_n}{l}, \quad \text{where } \mu_1 = 4.730, \quad \mu_2 = 7.853, \quad \mu_n = \frac{\pi}{2}(2n + 1) \quad \text{for } n \geq 3.$$

(Thanks to Erwin Reichel for these corrections.)

**Page 608:** Paragraph 9.2.4-1, 3rd and 4th solutions:

**Was:**

$$w(x, t) = [A \sin(\lambda x) + B \cos(\lambda x) + C \sinh(\lambda x) + D \cos(\lambda x)] \sin(t\sqrt{a^2\lambda^4 + k}),$$

$$w(x, t) = [A \sin(\lambda x) + B \cos(\lambda x) + C \sinh(\lambda x) + D \cos(\lambda x)] \cos(t\sqrt{a^2\lambda^4 + k}),$$

**Correct:**

$$w(x, t) = [A \sin(\lambda x) + B \cos(\lambda x) + C \sinh(\lambda x) + D \cosh(\lambda x)] \sin(t\sqrt{a^2\lambda^4 + k}),$$

$$w(x, t) = [A \sin(\lambda x) + B \cos(\lambda x) + C \sinh(\lambda x) + D \cosh(\lambda x)] \cos(t\sqrt{a^2\lambda^4 + k}),$$

**Page 701:** Line 2:

**Was:** The substitution of expression (1) with  $n = 2 \dots$

**Correct:** The substitution of the expression  $w = F(z)$  with  $z = \varphi(x) + \psi(y) \dots$