

## Errata

J. David Logan, *A First Course in Differential Equations*,  
Springer–Verlag, NY 2006.

- p 10 line 12. should read  $f(2, 4) = -4 + 2 \cdot 2 = 0$ .
- p 10 line 13. should read “slope 0”.
- p 14 line -2. should read  $c_1 = 0$ .
- p 17 line -6. should read “`dsolve({diff(u(t),t)=f(t,u(t)), u(a)=b},u(t))`”.
- p 40 Exercise 13.  $p'$  should be  $P'$ .
- p 47 Exercise 2. “places” should read “placed”.
- p 59 Exercise 5. Take  $t_0 = 0$ .
- p 91 line -5.  $u'' + 2u' + 5u = 0$ .
- p 91 line -4.  $k = 5$  and  $\lambda^2 + 2\lambda + 5 = 0$ .
- p 92 line 11. should read  $u' = -2Ae^{-t} \sin(2t - \varphi) - Ae^{-t} \cos(2t - \varphi)$ .
- p 92 line 13. should read  $u'(0) = 2A \sin \varphi - A \cos \varphi = 3$ .
- p 92 line 15.  $A \sin \varphi = \frac{3}{2}$  should read  $A \sin \varphi = 2$ .
- p 92 line 16. should read  $A^2 = 5$ .
- p 92 line 17.  $A = \sqrt{5}$ .
- p 92 line 19.  $\varphi = \arctan 2 = 1.107$ .
- p 92 line 21.  $u = \sqrt{5}e^{-t} \cos(2t - 1.107)$ .
- p 92 line 24.  $1.107/2$ .
- p 147, last line.  $d\tau$  in the integral.
- p 193, line -10. linear.
- p 194, lines 7,8.  $x'$ ,  $y'$ .
- p 195, line 5. delete “indexnode”.
- p 275 line 2.  $u' = k/u$  and  $u(t) = \sqrt{C + 2kt}$ .
- p 276 Sec 3.1, #5.  $x^x$  should read  $x^2$ .
- p 277 line 6.  $at^3 + bt^2 + ct + d$ .