4th Edition Errata 1 March 2014

Page 45, 4th line from the top the equation is missing a *k* and should read

$$U = \frac{1}{2}kl^2 \sin^2\theta + mgl(1-\cos\theta)$$

Page 45, 8th line from the top, a *k* is missing in the second term. The second term in the equation should read

$$\frac{\partial}{\partial\theta}\left(\frac{1}{2}kl^2 \sin^2\theta + mgl(1-\cos\theta)\right)$$

Page 51, line 1, 8 works in change "Figure 1.25" to "Figure 1.26"

Page 51, equation 1.73, the third term in has an extra *l* and should read

$$= \frac{\rho}{2}\frac{\dot{x}^2}{4l^6}\frac{33}{140}l^7 =$$

Page 82, In the caption of Figure 1.44 part (a) change the word "right" to the word "left" so the caption reads: (a) mass moving to the left ($\dot{x} < 0$),

Page 104, Problem 1.67 in the third sentence following Figure P1.67 change the subscript on symbol k_2 to k_1

Page 126, 6th line from the top change "0.02 x 0.02" to "0.01 x 0.01"

Page 127, 10th line from the top the 3 in the numerator should be a superscript

$$0.01\frac{Ebh^3}{4m(2f_0 + 0.01\omega^2)} = 0.012 \Rightarrow l < 0.229m$$

Page 138, Eq. 2.39: the exponent 2 is missing on the first Parenthesis in the denominator. The first equation should be:

$$X = \frac{f_0}{\sqrt{\left(\omega_n^2 - \omega^2\right)^2 + \left(2\zeta\omega_n\omega\right)^2}}$$

Page 153, Equation 2.86, replace $x_p t$ with $x_p(t)$ (missing parenthesis)

Page 245, bottom of Window 3.4 right hand column change $E[x2]$ to $E[x^2]$