

Errata – Nonlinear Regression Modeling for Engineering Applications  
R. Russell Rhinehart, Wiley & Sons, 2016 – First printing  
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Page ix, change the title of Section 10.3.8 to “Reduced Gradient (RG)”

Page xviii, Item 10, change “east squares” to “least squares”.

Page xxix, GRG item, change the name “GRG” to “Reduced Gradient” and remove “Generalized” from the description.

Page 56, Example 3.3, change the line “The calibration procedure sets the flow rate and measures  $\dot{Q}$  and  $i$ ” to “Set a valve position, and measure flow rate,  $\dot{Q}$ , and transmitter signal,  $i$ ”.

Page 56, Example 3.3, add absolute value symbol to the last equation, making it “ $(i - i_0)^b |\Delta_a| + a(i - i_0)^b |\ln(i - i_0) \Delta_b| < 0.01rms \quad \forall i$ ”.

Page 67, Section 4.1, first line, change “will” to “would”.

Page 73, Figure 4.8, the  $x^*$  should be changed to  $x'$  to match the rest of the text.

Page 74, Equation (4.8) the symbol  $\pi$  is missing. The correct equation is  $f(x) =$

$$\frac{1}{\sqrt{2\pi}\sigma_{\ln(x)}} e^{-\frac{1}{2}\left(\frac{\ln(x)-\ln(\bar{x})}{\sigma_{\ln(x)}}\right)^2}.$$

Page 102, Figure 6.1 should have labels “SS” for the before Transient, and after Transient periods for both the L and  $T_{\text{mix}}$  graphs.

Page 144, second line above Equation (8.4) change “Lagrange Multiplier” to “Lagrange-type multiplier”.

Page 144, third line below Equation (8.4) change “Lagrange Multiplier” to “Lagrange-type multiplier”.

Page 145, first line below Equation (8.7) change “Lagrange Multiplier” to “Lagrange-type multiplier”.

Page 147, fifth line on the page change “Lagrange Multiplier” to “Lagrange-type multiplier”.

Page 149, second line above Equation (9.1) change “three” to “four”.

Page 167, change the title of Section 10.3.8 to “Reduced Gradient (RG)”

Page 167, second line, change “The Generalized Reduced Gradient (GRG)” to “The Reduced Gradient (RG) method”

Page 182, last line on the page, change “left” to “top”.

Page 183, fifth line from the bottom, change “right-hand side” to “lower illustration”.

Page 206, Equation (13.15), the “+” signs should be “-” signs. Change to  $\min_{\{a, b, c\}} J = \sum(x_i y_i - a x_i - b - c(y_i - a))^2$ .

Page 212, second line below Equation (13.21), change “SSE” to “SSD”.

Page 255, Item 4, change “Lagrange Multiplier” to “Lagrange-type multiplier”.

Page 258, last two lines in Section 16.3.1.2, change “values” to “variables” and “value” to “variable”.

Page 297, Section 20.2, second paragraph, second line change “or” to “of”.