

Errata – Engineering Optimization: Applications, Methods, Analysis
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Page 18, Equations (1.28) & (1.29) change “min” to “max”.

Page 67, Figure 4.2 change “Live” to “Line”.

Page 72, Figure 4.6 the left X_L should be $X_{L,i-1}$, the second to left X_L should be $X_{L,i}$, X_{ML} should be $X_{ML,i}$, $X_{MR,i-1}$, X_{MR} should be $X_{MR,i}$, and X_R should be $X_{R,i} = X_{R,i-1}$.

Page 97, Section 5.4, second line unbold the y, f, x, x_1, x_2 in line “ $y = f(x)$, from x_1 to x_2 ?”.

Page 101, Equation (5.14) change Δs to ΔS .

Page 124, third line from the bottom, change Q to \dot{Q} .

Page 128, the label in Figure 7.7 should read $-\nabla f|_0$, not $\nabla, f/0$.

Page 165, the illustrations in Figures 9.8 and 9.9 are switched. The text and titles are correct if the illustrations are switched.

Page 188, second line from the bottom, replace ∇^2 with H .

Page 201, fifth line from the bottom, replace “ rx ” with “ r_x ”.

Page 203, 8th line from the top, should read “(See Chapter 35.)”

Page 206, 1) change “min” to “max” in Equation (11.8) and 2) “Chapter 30” to “Chapter 35” 4 lines below the equation.

Page 216, third paragraph in Section 11.9, first line, change “have” to “halve”.

Page 229, second line after Equation (12.12) change “linear constraints” to “linear equality constraints”.

Page 231, 4th paragraph in Section 12.7, 3rd line change “for” to “from”.

Page 238, Equation (13.15) replace “ $(\dots - T_{SP}^2)\Delta t$ ” with “ $(\dots - T_{SP})^2\Delta t$ ”.

Page 249, Equation (14.2) insert a space between “ $ywill$ ” making it “ $y will$ ”.

Page 250, the arrows on the 4th line should be removed.

Page 285, 3rd line after Equation (19.9) change “choose” to “chose”.

Page 291, first line in Section 20.3 should read “For improbable events, risk is the probably of an event times the penalty for the event:”

Page 291, insert spaces between words in the Equations (20.5) and (20.6).

Page 298, the “dashed” and “solid” are reversed in the third paragraph of Section 20.8. The first lines should read “Making +10% changes in each the coefficients in the reaction example (Section 20.5.1) results in the solid line relation between annualized capital and reactor T in Figure 20.2. The dashed line is the original.”

Page 322, 3rd line after Equation (22.8) change “ $x = y + z$ ” to “ $x + y + z$ ” in two places.

Page 341, 1st line after the table move the word “and” from its current location to replace the “,” after “ $c = 0.99$ ”.

Page 408, last line of 2nd paragraph in Section 29.5 insert a space between “ony” to become “on y”.

Page 409, Figure 29.4. The arrow head on the upper right arrow should touch the vertical axis, not the curve.

Page 416, 2nd line in Section 29.6, change “ $\Delta J/j$ ” with “ $\Delta J/J$ ”.

Page 468, Section 31.8, 3rd paragraph, 2nd line change “DV” to “OF”.

Page 480, Figure 32.3 change “ $ev(\tau)$ ” to “ $\ln(\lambda)$ ”.

Page 482, Section 32.2, last line remove “ values,”.

Page 495, The last line in Section 33.5 should read “the scores are $LF=31$, $PS=17$, $HJ=14$, and $LM=3$.”

Page 561, Section 41.1, 3rd paragraph, 5th line, include the square root symbol to “ $r_i =$

$\sqrt{(x_i - x)^2 + (y_i - y)^2}$ ”.

Page 565, 7th to last line change “value of y is $(x = \infty) =$ ” to “value of y is $y(x = \infty) =$ ”.

Page 566, Change Equation (42.2) $\varepsilon(x) = u(x) - \left[f(x, \tilde{y}) \sum_{i=1}^n c_i \frac{d^2 \tilde{y}_i}{dx^2} + g(x, \tilde{y}) \sum_{i=1}^n c_i \frac{d \tilde{y}}{dx} + h(x, \tilde{y}) \right]$,
it should have brackets on the former LHS.

Page 572, 3rd line above Figure 43.2, change “faction” to “fraction”.

Page 631, 2nd line of 3rd paragraph, change “filer” to “filter”.

Page 681, Figure E.30, some alignments in the cork squares are wrong. The orientation of the two corks in each square should be perpendicular to those in all adjacent squares.