

**Corrections to *Introduction to Statistical Quality Control 5th Edition*,
Douglas C. Montgomery, Wiley, New York, 2005
5 January 2006**

1. Page 9, line 6. Names should be Frank Gilbreth and Henry Gantt.
2. Page 43, in the stem-and-leaf display beside Table 2-1, the leaves for the first 4 stem should be 1233.
3. Page 52, line -4. On the right of the = sign the expression should read $25!/[(25-x)!]$
4. Page 105, line 17. Subscript on sigma-squared-sub-zero should be Roman zero, not italic.
5. Page 105, line -6, text should read “reject if $\chi_0^2 > \chi_{\alpha, n-1}^2$.”
6. Page 107, line 4; 34.396.01 should read 34, 396.01.
7. Page 114. In box at bottom of page, under rejection criterion the first $Z_0 > Z_{\alpha/2}$ should be $Z_0 < -Z_{\alpha/2}$.
8. Page 118 in box; rejection criterion should read $t_0 > t_{\alpha/2, n_1+n_2-2}$.
9. Page 119, line 7 should begin “Because $t_{0.025, 14} = 2.145$, and $-2.145 < -0.35 < 2.1445$,”
10. Page 120, Equation 3-55; $n_1 + 1$ and $n_2 + 1$ should read $n_1 - 1$ and $n_2 - 1$.
11. Page 131, Equation 3-67; font is wrong on $y_{..}$ (should be italic)
12. page 131, Equation 3-67; $\bar{y}_{i.} = y_{i.} / N$ should be $\bar{y}_{..} = y_{..} / N$
13. Page 139, Exercise 3-5. There are two missing observations; 13.3946 and 13.4002.
14. Page 159, Figure 4-9. The curve for $n = 5$ is incorrectly plotted. Some key points on the correct curve follow: (mu, beta) = (1.575, 0.96995), (1.650, 0.77637), (1.725, 0.36317), (1.800, 0.07078, and (1.875, 0.00480).
15. Page 160, line -6, both 0.50 should be replaced by 0.35.
16. Page 160, line -5 should be $ARL_1 = \frac{1}{p} = \frac{1}{0.35} = 2.86$.
17. Page 160, line -4. Replace “two” with 2.86.
18. Page 160, last line should be $ATS = ARL_1 h = 2.86(1) = 2.86$ hours.
19. Page 161, line 5. Replace $2(1/2) = 1$ with $2.86(1/2) = 1.43$.
20. Page 161, line 6. Replace “one hour” with 1.43 hours.
21. Page 161, line 14. Replace “about twice as quickly as” with “more quickly than”.
22. Page 161, line 15. Replace “in the (approximately) first hour with “within (approximately) two hours”.

23. Page 223. In Table 5-3, the last column should be headed by lower case s_i .
24. Page 224. In line 5, the S -bar should be a lower case s .
25. Page 267. Equation (6-3) should be $\mu_{\hat{p}} = p$.
26. Page 286, equation 6-15, second line. The expression on the right of the inequality in the second term should be $nLCL|p$.
27. Page 294, last line, reference to Example 6-2 should be to Example 6-3.
28. Page 313, line -5. Reference to Chapter 7 should be to Chapter 8.
29. Page 317, Exercise 6-3. For day 5 the fraction nonconforming should be 0.046.
30. Page 319, Exercise 6-19, line 2. Reference should be to Exercise 6-17.
31. Page 344, Example 7-4. In the 5th line the number 68 in the numerator of the equation should be 38.
32. Page 358. Delete the number 7-30 from the equation in the middle of the page.
33. Page 360. Add an equation number 7-33 to the equations displayed at the top of the page.
34. Page 365. In the title of Table 7-11, “Competing” should be “Computing”.
35. Page 399, line 3. Insert max before the square bracket [.
36. Page 410, line -7. LCL should be UCL.
37. Page 479, Exercise 9-4. For production day 246 part number 1395 should be 1385.
38. Page 482, Exercise 9-16. The 5th observation in column 5 should be 2000.
39. Page 490. In Equation 10-6 the bold m in the exponent should be bold mu (μ).
40. Page 501, line 2. The bold x should have an overbar (\bar{x}).
41. Page 502. In the equation defining S_1 , v_i should be x_i .
42. Page 508, Table 10-5. The 8th, 9th, and 10th observations on y_2 in the last column should be 100, 103, and 107.
43. Page 583. In Figures 12-28 and 12-29 part (a) the labels on the x_1 axis have an extra leading zero.
44. Page 640, Exercise 13-10. The observations on y (beginning with the 9th) should be 65, 82, 68, 63, 100, 80, 83, 90, 87, 88, 91, and 85.
45. Page 641, Exercise 13-12. The observations on y (beginning with the 9th) should be 65, 82, 68, 63, 83, 90, 87, 88, 91, and 85.
46. Page 686, Exercise 14-14. In part (a) use $p_1 = 0.02$ and $p_2 = 0.15$.