

All of the corrections for *Probability and Statistical Inference*, eighth edition, by Robert V. Hogg and Elliot A. Tanis, ISBN-10: 0-321-58475-9, ISBN-13: 978-0-321-58475-5. (August 22, 2013)

- Page 68, line 9 from bottom, $\sigma^2 = E[(X - \mu)]^2 =$ **should be** $\sigma^2 = E[(X - \mu)^2] =$
- Page 147, lines 6 and 7 of Exercise 3.4-10, 39 in the control group and 31 in the infected group. **should be replaced with** 39 in the infected group and 31 in the control group.
- Page 166, Exercise 3.6-13(b) Construce a q - q plot, **should be** 3.6-13(b) Construct a q - q plot,
- Page 256, line 2 from the bottom,

$$P(14.4 < \bar{X} < 15.6) = P\left(\frac{14.5 - 15}{0.4} < \frac{\bar{X} - 15}{0.4} < \frac{15.6 - 15}{0.4}\right)$$

should be

$$P(14.4 < \bar{X} < 15.6) = P\left(\frac{14.4 - 15}{0.4} < \frac{\bar{X} - 15}{0.4} < \frac{15.6 - 15}{0.4}\right)$$

- Page 310, Equation **6.5-5**:

$$\tilde{p} \pm z_{\alpha/2} \sqrt{\tilde{p}(1 - \tilde{p})/n}$$

should be

$$\tilde{p} \pm z_{\alpha/2} \sqrt{\tilde{p}(1 - \tilde{p})/(n + 4)}$$

- Page 310, Example 6.5-3:

$$0.227 \pm 1.645 \sqrt{\frac{(0.227)(0.773)}{40}},$$

should be

$$0.227 \pm 1.645 \sqrt{\frac{(0.227)(0.773)}{44}},$$

In line 4 from the bottom, [0.118, 0.336] **should be** [0.123, 0.331]

- Page 333, Exercise **6.7-18**, line 11 in the table currently reads 332, III 90 150 245. This **should be** 332, III 90 155 245.
- Page 570, in line 2 of the Historical Comments section, Walter A. Shewart's **should be** Walter A. Shewhart's.
- Appendix B, page 573,
Table VIII Kolmogrov-Smirnov Acceptance Limits 592
should be
Table VIII Kolmogorov-Smirnov Acceptance Limits 592
- Appendix C, page 602, the answer for Exercise 2.1-3 should begin with **(a)** 10;

- Appendix C, page 605, 3.7-7 (b) $\mu = 31/24, \sigma^2 = 167/567$; **should be** 3.7-7 (b) $\mu = 31/24, \sigma^2 = 167/576$;
- Page 607, 5.3-11 (c) $\mu_Y = 8, \sigma_Y^2 = 4$. **should be** 5.3-11 (c) $\mu_Y = 6, \sigma_Y^2 = 4$.
- Page 608, the answer for Exercise 5.7-21 **should be replaced** with this answer:
 5.7-21 (a) Poisson with a mean of 30.
 (b) 0.2057. (The exact probability is 0.2084.)
- Page 609, Exercise 6.5-1(d) [0.0250, 0.0555]; **should be** 6.5-1(d) [0.0251, 0.0554];
- Page 609, Exercise 6.5-7(d) [0.0921, 0.3153]. **should be** 6.5-7(d) [0.0963, 0.3111].