This is the first set of corrections for *Probability and Statistical Inference*, seventh edition by Robert V. Hogg and Elliot A. Tanis, ISBN 0-13-146413-2. Actually, some of these “corrections” are really given for clarity.

- Page 13, line 16, add the sentence: Such figures are called Venn diagrams.
- Page 146, in Figure 3.2-3(b) (on the right), \(g(y)\) should be \(G(y)\)
- Page 154, line 6 from the bottom, the word is should be is
- Page 267, in the third line of the display, the = sign should be a + sign
- Page 314, Figure 5.7-1: the captions under Figure 5.7-1(b), (c), and (d) are not correct and do not agree with the figure. Here are the corrections:
  - Figure 5.7-1(b): \(b(50, 1/10)\) (shaded); Poisson, \(\lambda = 5\) should be \(b(10, 1/2)\) (shaded); Poisson, \(\lambda = 5\)
  - Figure 5.7-1(c): \(b(100, 1/20)\) (shaded); Poisson, \(\lambda = 5\) should be \(b(20, 1/4)\) (shaded); Poisson, \(\lambda = 5\)
  - Figure 5.7-1(d): \(b(200, 1/40)\) (shaded); Poisson, \(\lambda = 5\) should be \(b(50, 1/10)\) (shaded); Poisson, \(\lambda = 5\)
- Page 336, add the following sentence before lines 13 and 14:
  It can be shown that \(L''(\bar{x}) < 0\) so that \(L(\bar{x})\) is a maximum.
- Page 337, line 19, bold face the words maximum likelihood estimators so that they become maximum likelihood estimators
- Page 342, line 10 from the bottom and line 2 from the bottom, replace the word population with (for clarification) the word distribution
- Page 343, line 14, replace the word population with (for clarification) the word distribution
- Page 357, line 5, replace the word items with the word observations
- Page 430, line 4 from the bottom, the last letter \(k\) should be \(n\) so that it reads \(j = 1, 2, \ldots, n\).
- Page 473, line 17 from the bottom: for brevity, \(p\)-value. The \(p\)-value should be replaced with for brevity, \(p\)-value. The \(p\)-value
- Page 540, line 16, replace the word calculations with the word attributes
- Page 666, line 12, \(\int_0^b xe^{-x} dx = \ldots\) should be \(\int_0^b xe^{-x} dx = \ldots\)
- Page 686, \(\mathbb{P}(Z \leq 1.51) = 0.9345\) rather than 0.9545.
- Page 719, Exercise 6.6-7: The current answer uses only the first 15 numbers because 471 is missing from the CD-ROM. The correct answer is:
  6.6-7 (a) [142.72, 386.10]; (b) \(\bar{x} = 220.69, s = 200.27\), yes.