A First Course in Design and Analysis of Experiments
Gary W. Oehlert
Errata in the First Printing

Substantive Changes

Page

47 The second line of Display 3.3 should read

$$SS_E = \sum_{i=1}^{g} \sum_{j=1}^{n_i} (y_{ij} - \overline{y}_{i\bullet})^2$$

86 Line –2 should end

$$= \sqrt{4 \times 4.782} = 4.37 \ ,$$

117 The Seeded and Unseeded labels should be switched in Table 6.1.

179 Lines 13 and 14. Some plus and minus signs should be switched to read

$$\begin{aligned} \widehat{\alpha\beta}_{21} &= 2.153 - (2.065 + \ \ .234 + -.134) \ = -.012 \\ \widehat{\alpha\beta}_{12} &= 1.952 - (2.065 + -.234 + \ \ .134) \ = -.012 \end{aligned}$$

245 The sequential ANOVAs given in Exercise 10.6 are not adequate to answer the question. The ANOVAs should be

	DF	SS	MS
a	1	1.9242	1.9242
b	2	1584.2	792.1
a.b	2	19.519	9.7595
c	1	1476.7	1476.7
a.c	1	17.527	17.527
b.c	2	191.84	95.92
a.b.c	2	28.567	14.284
Error	11	166.71	15.155

	DF	SS	MS
b	2	1573	786.49
c	1	1428.7	1428.7
b.c	2	153.62	76.809
a	1	39.777	39.777
b.a	2	69.132	34.566
c.a	1	27.51	27.51
b.c.a	2	28.567	14.284
Error	11	166.71	15.155

	DF	SS	MS
c	1	1259.3	1259.3
a	1	9.0198	9.0198
c.a	1	0.93504	0.93504
b	2	1776.1	888.04
c.b	2	169.92	84.961
a.b	2	76.449	38.224
c.a.b	2	28.567	14.284
Error	11	166.71	15.155

269 Lines 2, –7, and –10. $F_{(1-\mathcal{E})/2,\nu_1,\nu_2}$ should be replaced by $F_{1-\mathcal{E}/2,\nu_1,\nu_2}$.

355 Line 14. Added: Analyze these data to determine if there is a difference in liking between the two kinds of potato chips.

403 Line 11. 3^p and 3^{k-p} in marginal note should be 3^q and 3^{k-q}.

410 Lines –5, –7. Add superscript ones to labels for two degree of freedom splits.

504 Line –7. –ADHN should be ADHN.

523 Line 2. Replace p with q in Table 19.1.

524 Line 2. Replace p with q in Table 19.2.

524 Line –18. Replace α with m in marginal note.

576 Line 15. "basis X" should be "matrix X."

577 Line –2. "s_a" should be "s_g."

578 Lines –8 and –13. Lower limits of summation should be $i = 1$ and upper summation limits of a should be replaced by g.

Editorial and Style Changes

Page

10 Lines 4 and –14. Spacing changes.

75 Lines –4 and –6. Leading parentheses in part labels.

108 Lines –8, –10, and –12. Leading parentheses in part labels.

136 Line –4. Remove indexing reference.

138 Line 11. Remove indexing reference.

179 Line 9. Changed spacing.

181 Line 11. Extra space after H_0 removed.

491 Line –14. Remove indexing reference.

The second printing also contains some changes to the front matter and stylistic changes to running heads in the Bibilography, Appendices, and Index. The mysterious indexing references on pages 126, 138, and 491 now appear as items in the index.