

*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

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

**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.  $F_{(1-\varepsilon)/2, \nu_1, \nu_2}$  should be replaced by  $F_{1-\varepsilon/2, \nu_1, \nu_2}$ .
- 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  $\alpha$  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 Bibliography, Appendices, and Index. The mysterious indexing references on pages 126, 138, and 491 now appear as items in the index.