Errata
Multiple Regression and Beyond

This is a compilation of all known errors, updated as more are reported. Many errors involve special characters in headings and titles.

2/19/2008

Chapter 2

p. 36, Table 2.1, second heading currently reads "INTERPRET b:". Should read "INTERPRET β:".

Chapter 3

p. 43 Heading (also table of contents) currently reads: Why R^2 ,, $r^2 + r^2$. Should be *not equals* sign (Why $R^2 \neq r^2 + r^2$).

p. 44, line 10. should read: Grades *jointly accounted* for by Homework and Parent Education, or the R^2.

Chapter 5

p. 85, Table 5.2. R^2 should be ΔR^2, and $\sqrt{R^2}$ should be $\sqrt{\Delta R^2}$. Here is the corrected Table:

TABLE 5.2   Comparison of ΔR^2 versus $\sqrt{\Delta R^2}$ as Measures of the Importance of Effects

MEASURE OF IMPORTANCE	IMPORTANCE OF NICKELS	IMPORTANCE OF DIMES
ΔR^2	.200	.800
$\sqrt{\Delta R^2}$	.447	.894

Dimes are twice as important as nickels in determining the amount of money received; $\sqrt{\Delta R^2}$ demonstrates this importance, but ΔR^2 does not.

p. 89, Caption to Figure 5.10, second sentence, should read: Semipartial correlations are equal to $\sqrt{\Delta R^2}$, with each variable…

p. 90, third full paragraph, lines 2-3 should read "…resulted in a statistically significant increase in explained <u>variance</u> (ΔR^2 = …"

p. 90, Heading for Table 5.4 should read: BLOCK ΔR^2 PROBABILITY

p. 123, last sentence of the next to last paragraph: The calculation of alpha should be $(\alpha = \dfrac{.05}{3})$.

Chapter 7

p. 136, line 6-7. Sentence should read: Previous research has suggested that achievement has differential effects on the <u>self-esteem</u> of boys versus girls…

p. 137, line 18. Sentence should read: Third, simulation research has shown that when the assumption of <u>homogeneity</u> of error variances across groups is violated…

p. 160, Note 1: Compute S_Esteem=((F1Cncpt2*10)+50).

Chapter 8

p. 165. The first sentence of the first full paragraph should read: It is also possible to plot mean Achievement scores by levels of <u>time spent on TV</u> and (trichotomized) Ability…

p. 169. The second sentence after the heading "Common Cause" should read: If the coefficients represented by paths <u>*a*</u> and *c* in Figure 8.6…

p. 174. First sentence of the first full paragraph should read: Note the shape of the regression line: primarily upward, with a con<u>vex</u> shape.

Chapter 10

p. 237, Note 2, sentence starting on line 2: The correlation between *Y* (a presumed effect) an<u>d</u> *X* (r_{xy})…

Chapter 12

p. 273: Table 12.3 Table heading should read:

Model	χ^2	*df*	$\Delta\chi^2$	Δdf	*p*	AIC	PCFI	RMSEA (90% CI)

Chapter 14

p. 308: Second line under heading "Standardized Residuals: The Initial Model:" Root Mean Square Residual should read Root Mean Square Error of Approximation

p. 316: Table 14.2 Heading should read:

Model χ^2 *df* $\Delta\chi^2$ Δdf *p*   AIC   BIC   PCFI

The BIC column should read:

Model	BIC
Initial Four Factor	121.882
Three Factor 1 (No Memory)	131.467
Three Factor 2 (Combined Nonverbal)	116.840
Hierarchical	113.458

(The BIC values shown in the text are not incorrect. There are two formulae for the BIC, however, and Amos switched from one formula to the other. The corrected BIC values are what will be obtained with current versions of Amos)

p. 318: second full paragraph should read, starting with the 5th line:
…we use the AIC to compare models. In contrast, the PCFI (the larger the value the better) and the BIC (smaller values are better) favor the three-factor Combined Nonverbal model. In my experience, the PCFI places too great a premium on parsimony. These differences illustrate the importance of choosing the fit statistics to be used prior to the evaluation of models. Again, according…

Chapter 15

p. 342: Table 15.2 Heading should read:

Model χ^2 *df* $\Delta\chi^2$ Δdf *p*   AIC   PCFI   RMSEA (90% CI)

Chapter 16

p. 361: Table 16.2 Heading should read:

Model χ^2 *df* $\Delta\chi^2$ Δdf *p*   AIC   PCFI   RMSEA (90% CI)

p. 370: Table 16.3 Heading should read:

Model χ^2 *df* $\Delta\chi^2$ Δdf *p*   AIC   PCFI   RMSEA

p. 376: Table 16.4 Heading should read:

Model χ^2 *df* $\Delta\chi^2$ Δdf *p*   AIC   PCFI   RMSEA

The AIC, PCFI, and RMSEA values for the "All Free" model in Table 16.4 are incorrect. The correct values for the "All Free" model are: 162.097 (AIC), .706 (PCFI), and .049 (RMSEA). The other values in the table are correct.

p. 377: Sentence that starts on line 3 of first full paragraph should read: Suppose that, instead of having data for both majority and <u>minority</u> students…

Appendix E

p. 508: Symbol in the Effect Sizes heading should be eta-squared, not h-squared. Heading should read: **Effect Sizes, η^2**