

# Errata Sheet for Using Multivariate Statistics, 6/e, November 2015

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This is a compilation of all errors, updated as more are reported. Any and all such errors may already be corrected in the book that you have received.

Note that SAS default output format has changed to HTML. Although the output looks quite different, information is the same. The old output format is still available.

Page 14, Equation 1.2. Subscript for SS should be  $j$ :

$$SS(X_j) = \sum_i^N (X_{ij} - \overline{X_j})^2$$

Page 83, 6<sup>th</sup> paragraph, lines 5 and 6: replace number of symptoms with dosage.

...use the square of dosage to represent the curvilinear relationship instead of dosage in the analysis.

Page 103, Table 4.11, add following syntax to bottom of table:

DESCRIPTIVES variables = attdrug atthouse mstatus race ltimedrs.

Page 108, Table 4.12 (b). SAS Interactive Data Analysis is no longer available. The following syntax will produce the histograms:

```
proc univariate data=SASUSER.SCREEN;  
  var timedrs attdrug atthouse income mstatus race;  
  by emplmnt;  
  histogram;  
run;
```

Page 110, Figure 4.12. SAS Interactive Data Analysis is no longer available. The following syntax will produce the scatterplots:

```
proc sgscatter data=SASUSER.SCREENX;  
  by emplmnt;  
  matrix attdrug timedrs;  
run;
```

Page 111, Table 4.13, line 2 of syntax, add semicolon at end of line

.

```
by emplmnt;
```

Page 465, line 7: Division sign was omitted:

First,  $d = \ln(\text{odds ratio})/1.81$ .

Page 580, description following Equation 12.6:

Coefficients for the IVs are the product of (the inverse of ~~the square root of~~) the matrix of....

Page 586-588, Table 12.4:

All VAR and WITH labels should be switched, i.e., DVs should be labeled VAR and IVs should be labeled WITH.

Page 671, line 2:

...variables—WARM and ~~INDPT~~ DOMINANT—load on more than one factor.

Page 671, 2<sup>nd</sup> paragraph, last line:

...accounts for between 5% and ~~14%~~ 12% of the variance....

Page 675, 2<sup>nd</sup> paragraph, second line:

...as Leadership and ~~Dominant~~ Dominance correlated .34.....

Page 790, 4<sup>th</sup> paragraph (Section 15.2.7), second line:

...predict student ~~motivation~~ achievement with the knowledge of....

Page 795, Table 15.2, all Intercepts (column 3) have been corrected in following:

TABLE 15.2 Intercepts and Slopes for 10 Ski Runs in Sample Data

Run	Mountain	Intercept	Slope	Sample Size
7472	0	5.043478	-0.30538	23
7829	0	4.800000	-0.29493	20
7930	0	5.958333	0.81250	24
24725	0	4.909091	0.60039	22
25456	0	5.454545	-0.44765	22
25642	0	5.150000	-0.35458	20
62821	1	6.805970	0.11162	67
68448	0	5.476190	0.66052	21
68493	0	5.095238	0.62000	21
72292	0	5.300000	0.65464	20

Page 799, 5<sup>th</sup> paragraph (Section 15.4.1.3, 4<sup>th</sup> line:

At  $\alpha = .05$  (critical value ~~1.58~~ 1.645) there is evidence.....

Page 804, Figure 15.1. Note that intercept is calculated where intercept = 0, although graphs show ordinates crossing at skill = -2 and skill = -1.

Page 804, lines 5 and 6, correct as follows:

...intercept at about ~~6.25~~ 6.5, but a negative ....intercept at about ~~5.8~~ 5.5. Thus...

Page 919, Equation 17.4. Revise explanation below equation as follows:

where  $m = k$  (number of  $X$  variables) or  $p$  (number of  $Y$  variables), whichever is smaller, and  $\beta$  and  $\gamma$  are regression weights for standardized  $X$  and  $Y$  variables, respectively.

Also, letter above  $\Sigma$  in all right-hand elements of equation should be  $p$ , not  $k$ .

Page 934, Footnote: subscripts for all  $\lambda$  should be  $i$ , not 1.

Page 935, second equation: should be a minus rather than a plus sign just before the square root symbol.