

Bd-611-17

CORRECTIONS TO
Solutions Manual for "Linear Models"
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Correction Set 1, May 1977

Page 5, Ex. 1.12: The second $\underline{AA'}$ should be $\underline{A'A}$.

Page 14, Ex. 2.3, last 2 lines: $n=2$ should be $n \leq 2$.
 $n=2, n=4$ should be $n \leq 2$

Page 20, Ex. 2.12(b), line 1: $\underline{4\mu' BV\mu}$ should be $\underline{4\mu' BVB\mu}$.

Page 20, Ex. 2.12(b), line 2: The $\underline{\mu}$ should be $\underline{P\mu}$.

Page 37, Ex. 3.4, Eq. (2):

on LHS: $N^{-1} \underline{ii'}$ [\underline{i} - should be $N^{-1} \underline{ii'}$ [\underline{I} - .
on RHS: The last $\underline{1}$ should be $\underline{1'}$.

Page 37, Ex. 3.5, 4 lines up: $\underline{\chi^2}$ should be $\underline{\chi'^2}$.

Page 38, Ex. 3.6, penultimate line: The first $\underline{Nx'}$ should be $\underline{N\bar{x}'}$.

Page 38, Ex. 3.7:

line 1 up: $[\underline{K'(X'X)^{-1}}$ should be $[\underline{K'(X'X)^{-1}K}]^{-1}$.
last line: \underline{S} should be $\underline{S^{-1}}$

Page 40, Ex. 3.8, line 2: $\underline{-\bar{x}S^{-1}}$ should be $\underline{-\bar{x}'S^{-1}}$.

Page 48, Ex. 3.16: In the expression for \underline{u} , $\underline{t'(X'V^{-1}X)^{-1}}$ should be $\underline{t'(X'V^{-1}X)^{-1}X'V^{-1}}$

Page 71, 3 lines up: $\underline{\frac{1}{4}(\frac{1}{3})^3}$ should be $\underline{\frac{1}{4}(\frac{1}{3})^2}$.

Page 74, end of 6.5: $Q = \dots = 1132/11$, not $1032/11$.

Page 75, Ex. 6.6-4: The (3,2) element in $\underline{K'}$, namely 1, should be $\underline{-1}$.

Page 80, Ex. 6.10, line 2: $R(\alpha:\beta|\mu, \alpha)$ should be $R(\beta:\alpha|\mu, \alpha)$.

Page 81, Ex. 6.10, first line below BVA: The last $\underline{n_{ij}^{-1}}$ should be $\underline{n_i^{-1}}$.

Page 185, 3/2 (c): The equivalent Snedecor Sixth Edition, 1967, references are pages 383 et seq., and Tables 13.3.1 and 13.3.2 .

Page 187 (a): model (1) should be model (2) .

Page 192, 6/1, line 1: n_{ij} should be n_i .

Page 193, 7/1, line 2: $\bar{y}_{..}^2$ should be $\bar{y}_{...}^2$.

Page 194, part (d): Apparently not as easy as it might look.

Page 197, 8/4: $x_{..}^{(k)}$ should be $\bar{x}_{..}^{(k)}$.

Page 198, 8/5, (b): Rewrite as:

In Table 12.8, p. 328 of Snedecor, 4th Edition, identify each sum of squares in terms of the Dixon and Massey notation.

Page 215: See over.

Additional Corrections Needed for 5th Printing
of "Linear Models" May, 1977

Page 51, title to i: F should be bold face type.

Page 103, bottom: In degrees of freedom $N - 2$ should be $N - r$, and
 $p - 2$ should be $p - r$ (four times).

Page 244, line 3: k' should be bold face type.

Page 360, below (58): \bar{z}_{ij} should be \bar{z}_{ijk} (three times)
 $\bar{z}_{..}$ should be $\bar{z}_{...}$.

Page 366, Table 8.12 and below it: The following changes put this material in
harmony with other writers:

Multiply the r.h.s.'s of SSA_u , SSB_u and $SSAB_u$ by n_h .

In (68) delete n_h from before σ_e^2 , and multiply the three
summation terms by n_h .

For the definition of n_h , namely the line beginning "with",
replace n_h by $1/n_h$.

In the line that starts with $1/n_h$ change the $1/n_h$ to n_h .

Page 371, lines 3 and 6 below (68): weighted should be testing.

Page 446, line 3 of paragraph (i): $R(\gamma|\mu, \alpha, \beta)$ should be $R(\beta|\mu, \alpha)$.