

Errata

(Updated 12/6/2012)

An R Companion to Linear Statistical Models

The list of corrections given below are for typographical errors identified by page number and the number of lines of printed text and equations from the top of each page (excluding tables, figures and figure captions). Note: Items preceded by an asterisk have been fixed in the second printing.

***p. 68, lines 8-9:** Remove/ignore these two lines of code.

p. 105, Last line of page: Replace H_0 by H_1 .

*** p. 106, line 10:** Remove “:” from the end of this line.

p. 175, lines 7 and 10: Remove extra commas in the `plot` function calls.

p. 176, line 2: Remove extra comma in the `plot` function call.

p. 180 Figure 8.6, and corresponding code on p. 183: Figure 8.6 is actually the plot of the *absolute values* of the `DFBETAS`, so the vertical axis for each plot is mis-labeled, and should show $|DFBETAS_0|$, etc. To correct the labeling, the `ylab` argument assignments in the code (lines 17, 20, 23, and 26 on p. 183) for these plots should be changed. For example, line 17

```
ylab=expression(paste(DFBETAS[0]))
```

should be changed to

```
ylab=expression(abs(DFBETAS[0]))
```

*** p. 199, lines 11-12:** Remove these two lines of code.

*** p. 199, line 19:** This line should be appropriately indented as it is a continuation of the `text` function call.

*** p. 199, line 24:** The `lty` argument assignment should be `lty=2`.

p. 216, line 17: Change the `nbest` argument assignment to `nbest=3`

p. 216, lines 21-23: This paragraph (lines 21-23) is misleading/partially incorrect. With the above change to the code in line 17, lines 21-23 should read as follows:

The argument `method="exhaustive"` instructs the function `regsubsets` to do an exhaustive search of all possible models, and `nbest=3` says to pick the three best models from *each of* the 1-, 2-, and 3-variable models.

p. 253 line 15: Add a parenthesis at the end to get

`with(OneWayData,tapply(y,Tr,summary))`

p. 263 line 2: Replace “Suppose m parameters ...” by “Suppose m parameter pairs ...”

* **p. 270, line 9:** Incorrect formula, should be

... An *unweighted mean* assumption, $\mu = \sum_{j=1}^p \mu_j / p$, gives rise to ...

* **p. 275, lines 25-26:** These should read

p -values for each test statistic, q^* , are computed as for a right-tailed test using $P(q > q^*)$.

* **p. 284, line 10:** The \bar{x} 's in this formula should be subscripted as follows

$$y_{ij} = \mu + \tau_j + \gamma_1(x_{ij1} - \bar{x}_1) + \gamma_2(x_{ij2} - \bar{x}_2) + \cdots + \gamma_q(x_{ijq} - \bar{x}_q) + \varepsilon_{ij},$$

* **p. 296, line 6:** Incorrect subscript for $\hat{\tau}$ in $(\hat{\tau}_j - \hat{\tau}_j)$. Correct interval formula is

$$\begin{aligned} (\hat{\tau}_j - \hat{\tau}_k) - t(\alpha/(2m), n - p - 1) s_{\hat{\tau}_j - \hat{\tau}_k} \\ < (\tau_j - \tau_k) < \\ (\hat{\tau}_j - \hat{\tau}_k) + t(\alpha/(2m), n - p - 1) s_{\hat{\tau}_j - \hat{\tau}_k}. \end{aligned}$$

Index, Under R Syntax pp. 351-353: The index entries abline, axis, legend, lines, mtext, text, and title should all refer to page 78 (not page 77).