Errata for *The Book of R* (updated to 10th printing)

Page 95: In Exercise 5.1 (b)(iii), "`num`" should now read "`nums`"

Pages 101-102: The answer for Exercise 5.2 (a) has been updated in the resources file. In the call to `data.frame`, the correct use should have `stringsAsFactors=F`.

Page 135: The paragraph at the bottom of the page that reads:

This line of code adds two separate horizontal lines, one at $y = 5$ and the other at $y = 5$, using `h=c(-5,5)`.

should now read:

This line of code adds two separate horizontal lines, one at $y = -5$ and the other at $y = 5$, using `h=c(-5,5)`.

Page 154: The first JSE link that reads:

http://www.amstat.org/ publications/ jse/jse_data_archive.htm

should now read:

http://jse.amstat.org/jse_data_archive.htm

and the second link which reads:

http://www.amstat.org/publications/jse/v9n2/4cdata.txt

should now read:

http://jse.amstat.org/v9n2/4Cdata.txt

and "4cdata.txt" should now read "4Cdata.txt"

Page 155: The URL in the code that reads:

```
R> dia.url <- "http://www.amstat.org/publications/jse/v9n2/4cdata.txt"
```

should now read:

```
R> dia.url <- "http://www.amstat.org/publications/jse/v9n2/4Cdata.txt"
```

The same edit was also made on pages 206, 568, and 606.

Page 213: The sentence in Exercise 10.6 (a) (i) that reads:

That is, produce the same vector as `loop2.result` in the text.

should now read:

That is, produce the same vector as `loop1.result` in the text.

and Exercise 10.6 (a) (ii) which reads:

Obtain the same result as `loop3.result`, the example concerning `next`, using an `ifelse`
function instead of a loop.

should now read:

Obtain the same result as `loop2.result`, the example concerning `next`, using an `ifelse`
function instead of a loop.

Page 214: In Exercise 10.6 (c) (ii), the code listing line that reads:

```
matlist1 <- list(matrix(1:4,2,2),matrix(2:5,2,2)
      matrix(1:16,4,2))
```

should now read:

```
matlist1 <- list(matrix(1:4,2,2),matrix(2:5,2,2)
      matrix(1:16,8,2))
```


Page 238: Exercise 11.3 (b) (ii) that reads:

120 factorial is 479;001;600.

should now read:

12 factorial is 479,001,600."

Page 280: In Equation 13.6, the index of the sum should be $i = 1$ rather than $i - 1$.

Page 307: The answer for Exercise 14.1 (i) has been updated in the resources file. It should
appear as follows:

```
magquan <- quantile(quakes$mag,c(1/3,2/3))
magfac <- cut(quakes$mag,breaks=c(min(quakes$mag),magquan[1],
magquan[2],max(quakes$mag)), include.lowest=TRUE)
```

Page 317: In the final line of Equation 15.4, a power of 2 should appear after the first set of parentheses.

Page 325: Equation 15.8 should read:

$$\sigma_W^2 = \text{Var}[W] = \int_{-\infty}^{\infty} (w - \mu_W)^2 f(w) \, dw$$

Page 363: The sentence of the note at the end of Section 16.2.5 that reads:

However, most `p`- and `q`-functions in R include an optional logical argument, `lower.tail`, which defaults to `FALSE`. Therefore, an alternative is to set `lower.tail=TRUE` in any relevant function call, in which case R will expect or return upper-tail areas specifically.

should now read:

However, most `p`- and `q`-functions in R include an optional logical argument, `lower.tail`, which defaults to `TRUE`. Therefore, an alternative is to set `lower.tail=FALSE` in any relevant function call, in which case R will expect or return upper-tail areas specifically.

Page 489: In the final code listing in Section 21.2.3, the line that reads:

```
R> BETA.HAT <- solve(t(X)
```

should instead read:

```
R> BETA.HAT <- solve(t(X)%*%X)%*%t(X)%*%Y
```

The correct line appears in the resources file, *Davies_Part4_Source_Code.R*.

Page 530: In Equation 22.1, the last line that reads:

H_A : At least one of the $\beta_j \neq 0$ (for $j = p, \ldots, q$)

should now read:

H_A : At least one of the $\beta_j \; 6 \neq 0$ (for $j = p + 1, \ldots, q$)

Page 590: In Exercise 23.1 (c), the line that reads:

"After you open the device and setting the layout, the plot margins . . ."

should now read:

"After you open the device and set the layout, the plot margins . . ."

Page 619: For later versions of `ggplot2`, the commands do not center the title, but have it flush left. In order to center the title, add `theme(plot.title = element_text(hjust = 0.5) )` to the code.

Page 637: The last line of code at the top of the page that reads:
```
R> axis(2,at=4:1,labels=c("peryel.colors"...
```
should now read:
```
R> axis(2,at=4:1,labels=c("puryel.colors"...
```

Page 671: In Section 25.5.2, the line that reads:
```
install.package("spatstat")
```
should now read:
```
install.packages("spatstat")
```

Page 698: In Exercise 26.1 (b), the first line in the legend of the figure that reads "Male LH" should now read "Male RH"

Page 718: The last line of the code in the middle of the page that reads:
```
2.002741e-05
```
should now read:
```
2.567628e-05
```

Page 719: The last line of code in the middle of the page that reads:
```
3.649565e-05
```
should now read:
```
4.890472e-05
```

And the last line of code at the bottom of the page that reads:
```
1.771214e-05 2.964305e-05 4.249407e-05 9.543976e-05
```
should now read:
```
2.260448e-5 3.692132e-05 6.086846e-05 1.258873e-04
```

Page 761: In the reference list, the link for the Chu reference should be changed to:

http://jse.amstat.org/v9n2/datasets.chu.html