Errata for the book

Applying Test Equating Methods: Using R

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General note

We have noticed that in the PDF version of the book, the apostrophe sign in the R code was sometimes transcribed incorrectly. This problem has been corrected in the R code scripts published in the website of the book.

Chapter 4

1. Some lines in the R code on Page 88 are wrong. Please replace
   
   > obsSG <- Math20EG
   
   by
   
   > obsSG <- Math20SG
   
   and
   
   > SG.obsX<-apply(obsSG,1,sum)*1453
   > SG.obsY<-apply(obsSG,2,sum)*1453
   
   by
   
   > SG.obsX<-apply(obsSG,1,sum)
   > SG.obsY<-apply(obsSG,2,sum)
   
2. In Page 98, please replace
   
   > J = 76, K = 77, wx=0.5, wy=0.5)
   
   by
   
   J = 76, K = 77, wx=0.5, wy=0.5)

3. Page 100 and R code in Page 101: The object egADMy was actually not previously created. The R script for Chapter 4 shows how it can be created.

Chapter 5

1. Page 127. Due to a recent change in the mirt package, the following lines

   modADMx.2PL <- mirt(ADMneatX, 1, itemtype = "2PL", SE = TRUE, SE.type = 'BL')
   modADMy.2PL <- mirt(ADMneatY, 1, itemtype = "2PL", SE = TRUE, SE.type = 'BL')

   should be replaced by

   modADMx.2PL <- mirt(ADMneatX, 1, itemtype = "2PL", SE = TRUE, SE.type = 'numerical')
   modADMy.2PL <- mirt(ADMneatY, 1, itemtype = "2PL", SE = TRUE, SE.type = 'numerical')
Chapter 6

1. To get exactly the same plot as shown in Fig 6.2, please use the following code

\[
\text{plot}(0:80, \text{mu.xy, type='p', ylab = expression(\phi(x)), xlab='x', lwd=2, ylim=c(0,80))}
\]

Chapter 7

1. Page 168. In the new version of the \texttt{mirt} package, data columns must be given a name. A possible solution is the following: after creating the objects \texttt{Xscore} and \texttt{Yscore}, run the following lines

\[
\text{colnames(Xscore)<-paste('it',1:10,sep='')} \\
\text{colnames(Yscore)<-paste('it',1:10,sep='')}
\]

2. Page 168. Only one of the \texttt{getEq(EGgpcm)} lines is needed.

3. Page 176. The lasts lines of code should be

\[
\text{legend("bottomleft", pch=c(4,3,2,1), c("gauss.G","logis.G","gauss.L","logis.L"))}
\]