A link can be found on the text web site that points to a folder containing student learning materials. The folder labeled R\_book\_dir contains seven R programs, corresponding \*.csv data files, a .docx documentation file and a tutorial written by Scrucca, L. (2004) for the qcc package used in the R programs for control charting. The following items identify program names and give a brief summary of what each provides for the user.

* Gage\_RR\_Anova\_Table2\_6 supports the Gage R&R analysis of data in Table 2.6 of the text.
* Ex\_29\_Individuals constructs a retrospective individuals chart for data in Example 29 of the text.
* np and p\_charts\_Table\_3\_3 constructs retrospective *np* and *p* charts for data from Table 3.3 in the text.
* u\_chart\_Table\_3\_4 constructs a retrospective *u*-chart for data in Table 3.4 of the text and can produce a *c*-chart as well.
* Regression\_Yates\_Algorithm\_Table\_5\_8\_Data produces fitted effects using a regression approach instead of Yates algorithm for data in Table 5.8 in the text. See Table 5.14.
* Response\_Surface\_Table\_6\_13 produces two regression analyses for data in Table 6.13 of the text and analyzed further by the R code in Table 6.14 of the text.
* xbar\_R\_S\_Charts constructs retrospective charts for a sample data file.

In addition to the .docx documentation file, each of the seven programs has documentation within the code. It is assumed the student/professor has a beginning understanding of the R-studio system. Tables 4.8 and 4.9 in the text contain R codes for simulations in support of error propagation analysis.

Scrucca, L. (2004). qcc: an R package for quality control charting and statistical process control. R News 4/1, 11-17.