

Errata for RSM Simplified book

*(Asterisked errors are corrected in the books printed most recently.)

*Page 14, in line 6 from the top, add "of": "...predicted residual sum of squares'..." (**Correction shown in bold, italic.**)

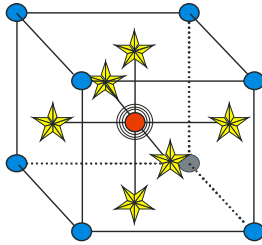
*Page 32, in second paragraph, delete μ from **employment** and for factor "F. Time" the s in **year** (should not be plural).

*Page 34, in paragraph below sidebar, change $\theta_{.1s}$ (two occurrences) to **0.05**.

*Page 38, At bottom of page the "2" should be a superscript, not subscript for on R^2 .

*Page 65: Line 11 from the top, replace rate of addition with time: "...between **time and** temperature ~~and rate of addition.~~"

Page 78: Figure 4-2 lacks proper perspective on star points from back to front. Here is a better drawing:



*Page 80, in Table 4-1 the response values listed in the "Yield" column are incorrect (they are right in the data file that comes with the Design-Expert[®] software on the CD-ROM accompanying the book). See new table below:

Std Ord	A: Time (min)	B: Temp. (deg C)	C: Rate (ml/min)	Yield (grams)
13	73* (<-1)	145 (0)	5 (0)	84.3
14	107* (>+1)	145 (0)	5 (0)	76.9
15	90 (0)	137* (<-1)	5 (0)	77.8
16	90 (0)	153* (>+1)	5 (0)	81.6
17	90 (0)	145 (0)	3.3* (<-1)	84.1
18	90 (0)	145 (0)	6.7* (>+1)	86.3
19	90 (0)	145 (0)	5 (0)	88.4
20	90 (0)	145 (0)	5 (0)	87.8

*Page 80, the equation is missing the AC term and the BC term has incorrect subscripts on the beta coefficient. It should read:

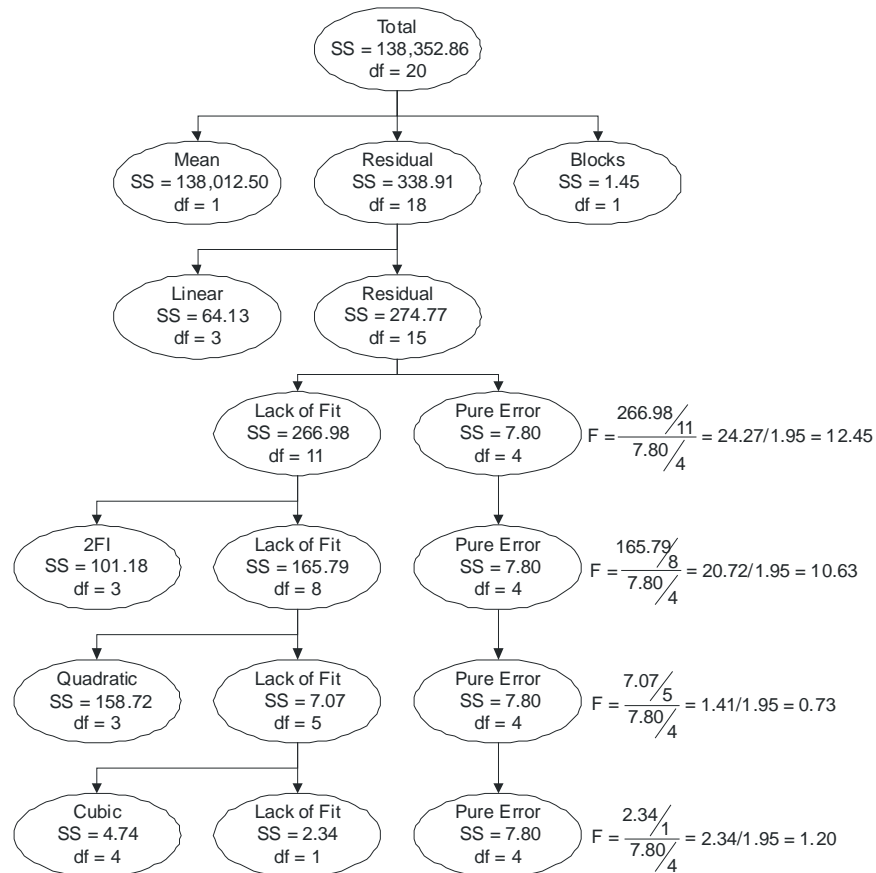
$$\dots\beta_{12}AB + \beta_{13}AC + \beta_{23}BC + \beta_{12}A^2\dots$$

*Page 82, the second line from the bottom shows the wrong p value – see correction: "...(p of ~~$\theta_{.7985}$~~ **0.6395** >>0.1)".

*Page 92, the bottom line of the third paragraph should be "Figures" (plural): "...plots on Figures 4-9a and 4-9b."

*Page 97, second paragraph missing the end (closing) parentheses in "(2FI model, shown in Figure 4-11a),...".

*Page 102, in Figure 4-13 the SS and df for lack of fit and pure error are wrong, causing the computed F-values to be incorrect (they should match what is shown in Table 4-3 on page 82. See new figure below:



*Page 137, In second to last paragraph insert the parenthetical note shown bold and highlighted: "...for taste and UPK (**using the 2FI alternative**),..."

*Page 150, In first complete paragraph remove the closing parentheses after "Chananda 2003)."

*Page 151, Third sentence in the sidebar should be "...it's set at 1...".

*Page 151, Second to last sentence in the sidebar "aficionados" – just one f, not two in the spelling of "aficionados."

*Page 157, In step 1 of the sidebar "...choose p-points..." (delete hyphen).

*Page 165, In step 1 of Appendix "...design of p-points..." (delete hyphen).

*Page 166, In first sentence of second paragraph of sidebar on CANDIDATE FREE APPROACHES, it's Figure 7-6, no 5a.

*Page 183, Last sentence "...($k = 3^{1/4} = \underline{1.246 \ 1.316}$) ... ($[1/\underline{1.246 \ 1.316}] = \underline{0.52 \ 0.44}$)..."

*Page 189, In Table 8-4 (for Problem 8-2) the first value for angle should be **20**, not ~~200~~.

*Page 191, There are 4 center points in the factorial block (n_{f0}), so when "Solving for the three-factor example we get:

$$\alpha = \sqrt{3 \left[\frac{1 + \frac{2}{2 \cdot 3}}{1 + \frac{24}{2^{3-0}}} \right]} = \sqrt{3 \left[\frac{1 + \frac{2}{6}}{1 + \frac{4}{8}} \right]} = 1.632''$$

*Page 192, There are 4 center points in the factorial block (n_{f0}), so "To achieve orthogonal blocking

$$\alpha = \sqrt{4 \left[\frac{1 + \frac{2}{2 \cdot 4}}{1 + \frac{24}{2^{4-0}}} \right]} = \sqrt{4 \left[\frac{1 + \frac{2}{8}}{1 + \frac{4}{16}} \right]} = 2''$$

Page 193, Appendix 8B, first paragraph, second sentence: "...introduced these RSM designs in the 1951." (Delete "the".)

*Page 198, Third paragraph, last line should be "...so the values in the equation for variance are:" – the letter "f" is missing.

Page 198, Second to last formula off a decimal in coefficient for X^2 , should be **0.00048** not ~~0.0048~~.

*Page 198, Last formula off a decimal in coefficient for X^2 , should be **0.00048** not ~~0.0048~~.

*Page 200, Figures 9-2a and 9-2b after the labels "Effect of Input" should **not display square boxes** (☐) – a glitch in the graphics.

*Page 228, Sentence above Figure 10-8 should say thickness, not taper: "...aspect (A) and taper **thickness** (C)."

Page 237, End of first sentence (a bullet point): "÷(⊕)." (Delete colon before 'frowny' face.)

*Page 242, Third paragraph, second sentence "...via Ratios' for..." is **missing a space before the word "for"**.

*Page 243, Last paragraph, second sentence should have p of 0.05, not 0.01, so it reads "...significant at $p \leq \underline{0.01} \ 0.05$."

*Page 262, Under entry for "Externally studentized residual" the second-to-last sentence is parenthetical "...df for limits.)" – the **period should go within the parentheses**.

*Page 266, Under entry for "OFAT" the underlining for the acronym is off, it should be "The one factor at a time..."

*Page 268, Under entry for "Regression analysis" the second sentence should be "***It*** is also called ...)" not "(H is also called...)".

*Page 289, First sentence that starts off with "A fully-function, but time-limited, version..." should read "A fully-functional...".

*Page 291, Step 5 of installation instructions, second sentence (near the bottom of the page) should read "...add a Stat-**Ease** group..." not Stat-Expert.

*Page 292, Step 7 of installation instructions (near the top of the page) should read "...return to the Stat-**Ease** group..." not Stat-Expert.

*Page 292, Last line of last paragraph should show web page as ".../***rsm***-simp.html" – all lower-case, not RSM-Simp.html.