

Errata for RSM Simplified book

*(Asterisked, shaded errors are corrected in most recent printings.)

Highlighted changes relate to newer books with version 8 of the software.

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

Page 17, the coefficient for the third-order term (x^3) of the equation has an extra decimal place – the term should be **0.0016** (not 0.00016).

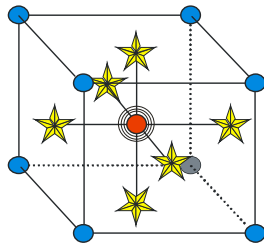
*Page 32, in second paragraph, delete μ from **employment** and for factor "F. Time" the s in **year** (should not be plural).

*Page 34, in paragraph below sidebar, change 0.1s (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:

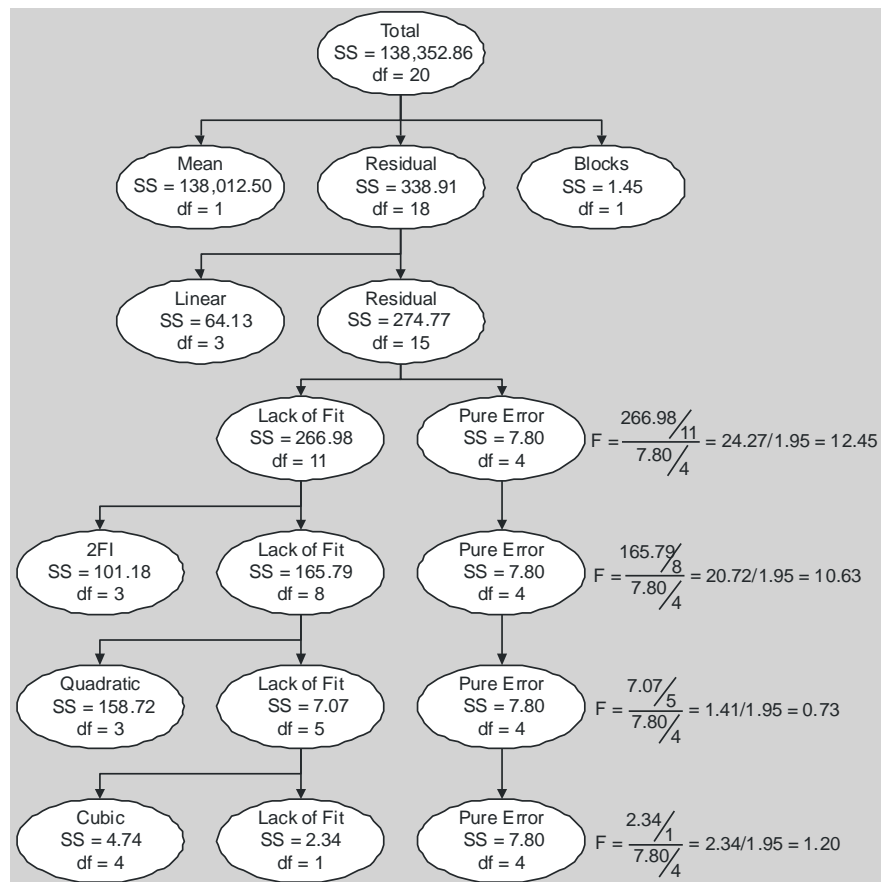
$$\dots\beta_{12}AB + \beta_{13}AC + \beta_{23}BC + \beta_{12}A^2\dots$$

*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 "af**f**icionados" – 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 "...($k = 3^{1/4} = 1.246$ **1.316**) ... ($[1/1.246$ **1.316] = 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:

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

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

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

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 199, Fig 9-1 lightly shaded line for Drive Time does not always print well. **Darken it.**

*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 231, 1st line under appendix missing a space after end parentheses, so "...-155) we" (**add space before "we"**).

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". **Add 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 $p \leq 0.05$ **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 273, The co-author of Optimum Experimental Designs is "Done**v**" – not "Doney".

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

Page 289, last line of first paragraph, change "7" to "p", so "... find data ("**dx7p**")..." ("dxp" – not "dx7").

Page 289, second-to-last line of second paragraph, change "7" to "p", so "... find data ("**dx7p**")..." ("dxp" – not "dx7").

Page 290, on service mark (slogan) below Stat-Ease logo, change "tm" to "(R)" symbol, so "**statistics made easy tm**®".

Page 290, in line below DESIGN-EXPERT® SOFTWARE, change "7" to "8", so "**Version 78.0 for Windows**".

Page 291, Hardware Requirements. Replace

Component	Minimum Required	Recommended
Processor	Pentium II 266 MHz	Pentium IV 1 GHz or higher
Media Drive	CD-ROM	CD-ROM
Hard Drive	20 MB	20+ MB
RAM	32 MB Win 98 SE or ME 32 MB Win NT 464 MB Win 2000 128 MB Win XP	64+ MB Win 98 SE or ME 64+ MB Win NT 4 128+ MB Win 2000 256+ MB Win XP
Monitor	SVGA (800x600)	XVGA (1024x768) or higher
Operating System	Windows 98 SE	Windows 2000 or later

with

Component	Minimum Required	Recommended
Media Drive	CD-ROM	CD-ROM
Display Resolution	800 x 600	1024 x 768 or greater
Memory	256 MB Windows XP 512 MB Windows Vista or 7	≥1 GB Windows XP ≥2 GB Windows Vista or 7
Disk Space	50 MB	50 MB or greater
Operating System	Windows XP	Windows Vista or 7

Page 291, Step 1.1, second line, delete **or start menu**.

Page 291, Step 2, second line, change 7 to **8**. (Design-Expert 8).

Page 291, Step 4, change path to **C:\Program Files\Stat-Ease\DX8P** (add "Stat-Ease" and change 7 to 8).

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

Page 291, Step 5, third line, change 7 to **8**. (Design-Expert 8).

*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, Step 7, delete **group**.

Page 292, Step 8, replace instructions "~~If you do not already have this software, click Install Adobe Acrobat Reader. (You will need it to view the Design-Expert tutorials.)~~" with "**Choose the "Install User Guide" option to install the tutorials on your hard drive.**"

Page 292, Using the Tutorials Step 1, fifth line, change 7 to **8**. (DX8P).

Page 292, Using the Tutorials Step 1, eighth line, change 7 to **8**. (Version "8").

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

Back cover, At start of last quote change book title to italic font – **RSM Simplified** not RSM-Simplified.