General Notes:

- Lines count from the top of the page and include headings and equations but not figures, tables, or captions.
- Brackets [ ] enclose clarifications and not text replacements.
- Equations, tables, and figures are referenced by numbered description.

Page	Reference	Is	Is Clearer As
xxx	$_{\text{sub}}$scripts	[some entries not alphabetized]	[alphabetize]
8	Line 23	...of the system as...	...of the system (*F*) as...
18	Lines 6,7	However…	[Move under lines 10,11]
52	Line 4	…$\mathbf{X}^{\mathrm{T}}\mathbf{X}$ matrix.	…$\mathbf{X}^{\mathrm{T}}\mathbf{X}$ matrix elements.
53	Line 1	…suppose that $\mathbf{\Lambda} = \mathbf{U}^{\mathrm{T}}\mathbf{U}$.	…suppose that $\mathbf{\Lambda} = \mathbf{U}^{\mathrm{T}}\mathbf{U}$ and is diagonal.
61	Eqn 1.60	… if $x > 0$ for all x [redundant]	… if $x > 0$
	Eqn 1.61	… if $x > 0$ for all x [redundant]	… if $x > 0$
63	Last Eqn	Eqn has broken lines	Conform to standard
65	Line 25	…to minimize the sum…	…to minimize the area sum…
66	Fig 1.13	ε	e
67	Last Eqn	Superscript 2 is too high	Conform to standard
72	Line 21	This property is known as…	$\mathbf{H} = \mathbf{H}^n$ is known as…
74	Eqn 1.87	Superscript 2 is too high	Conform to standard
78	Line 22	$\frac{Y(x)}{Y'(x_{\max})}$	$\frac{Y(x)}{Y(x_{\max})}$
84	Line 21	These phrases are peculiar to this text.	[omit – this sentence is redundant]
103	Line 6	A fuel manifold…	A fuel manifold (not shown) …
105	Fig 2.2	Fuel A, B, C.. [rename Fuel 1, 2, 3]	Fuel labels are not meant to correspond to page 104 descriptions
110	Line 14	Side-fired … sideway)	Side-fired … sideways)
111	Fig 1.11	Table 2.1	[Some slots are deliberately blank]
121	Fig 2.15	[Center riser is unlabeled]	[Center riser should be labeled “PSA Gas”]
124	Line 7	The helical coil … of the two.	[Move to end of paragraph]
141	Line 9	…(e.g., municipal solid waste (MSW), waste gases…	…(e.g., waste gases…
204	Line 11	… DF (degrees of freedom), F (*F* ratio)…	… DF (degrees of freedom), MS (mean square), F (*F* ratio)…
189			See “Extras” for Chapter 2 Addendum
206	Line 20	Should we accept the null hypothesis then?	Should we fail to reject the null hypothesis then?
207	Line 9	…, we calculate the mean sum of squares by the degrees…. Thus MSM = SSM/DFM and…	…, we calculate the mean sum of squares as MSM = SSM/DFM and…
209	Last line	[incorrect hat] $\bar{\xi}_k$	[correct hat] $\hat{\xi}_k$
262	Table 3.21	[Std Beta entries shown]	[Std Beta entries should not be shown as they are not introduced until p 343]
263	Table 3.22	[Std Beta entries shown]	[Std Beta entries should not be shown as they are not introduced until p 343]

Page	Reference	Is	Is Clearer As
267	Line 5	…using a blend of hydrogen and natural gas at various fuel flow…	…using either hydrogen and natural gas at two fuel flow…
268	Line 13	…ANOVA shows that there is significant bias.	…ANOVA shows that the block entry comprises significant variance.
280	Line 1	Where	Again, we have
283	Line 14	…construct the design in binary order…	…construct the design in order of its mixed levels…
267	Line 5	…using a blend of hydrogen and natural gas at various fuel flow…	…using either hydrogen and natural gas at two fuel flow…
268	Line 13	…ANOVA shows that there is significant bias.	…ANOVA shows that the block entry comprises significant variance.
280	Line 1	Where	Again, we have
283	Line 14	…construct the design in binary order…	…construct the design in order of its mixed levels…
285	Line 17	Then two factors code for four levels, – 0, 1, …	Then two factors code for four levels: 0, 1, …
293	Line 16	…the distributed control systems (DCSs) …	…the distributed control system (DCS) …
325	Equations	[All models begin with y]	[All models should begin with $\hat{y}$]
343	Line 25	…if the concentration rises, then…	…if the concentration rises and begins to lower the BWT, then…
345	Line 2	Likewise, the $\mathbf{X}^{\mathsf{T}}\mathbf{y}$ matrix is the correlation matrix…	Likewise, the $\mathbf{X}^{\mathsf{T}}\mathbf{y}$ vector is the correlation vector…
349	Line 3	…variance and cause…	…variance and to cause…
357	Table 4.15	[L_{f} and D_{f}]	[subscript should be italicized as L_f and D_f]
359	Table 4.16	170	$2\cdot1 + 4\cdot2 + 8\cdot4 + 16\cdot8 = 170$
360	Table 4.18	47	$9\cdot1 + 5\cdot2 + 3\cdot4 + 2\cdot8 = 47$
366	Table 4.23	[Title:] Split-Plot Design	Incorrect Analysis of a Tacit Split-Plot Design
368	Table 4.24	[Heading] DF	[Omit DF]
375	Line 2	…four terms having…	…four terms having degrees of freedom…
376	Table 4.31	[Table lacks stripes]	[Table should be striped for clarity]
382	Lines 5, 6	[for consistency, delimit with commas, not slashes]	1:2, 2, ~~12:2~~, 3, 13:2, 23, ~~123:2~~, *r*:123
387	Line 7	where $a_0 = b_3$…	This is Equation 4.80 with $a_0 = b_3$…
389	Figure 4.14	For example y_{12} is the binary blend…	For example y_{12} is the response for the binary blend…
392	Line 17	…to the number of factors (n) in the simplex.	…to the number of components (c) in the simplex.
	Eqn 4.96	$e_1 = n$	$e_1 = c$

Page	Reference	Is	Is Clearer As
393	Eqn 4.97	$e_2 = \frac{n!}{2!(n-2)!}$	$e_2 = \frac{c!}{2!(c-2)!}$
	Eqn 4.98	$e_3 = \frac{n!}{3!(n-3)!}$	$e_3 = \frac{c!}{3!(c-3)!}$
	Eqn 4.99	$e_4 = \frac{n!}{4!(n-4)!}$	$e_4 = \frac{c!}{4!(c-4)!}$
397	Figure 4.17	[Full structural formula has uneven C—C bond lengths in propane]	[Full structural formula should have even C—C bond lengths in propane]
399	Line 31	…the reaction takes place…	…the coking reaction takes place…
403	Line 39	Lewallen et al. have…	Lewallen et al have…
404	Line 29	…in terms of bonds only…	…in terms of source bonds only…
	Line 35	Adding Equation 4.102 to 4.104 gives…	Adding Equations 4.102 through 4.104 gives…
406	Line 6	…bond types, if they are present in significant number, by choosing…	…significant bond types by choosing…
409	Line 11	…and the centroid.	…and the centroid of this region.
423	Line 14	…formulating rate laws.) (This…	…formulating rate laws. This…
425	Line 22	…no nitrogen in the fuel, then there will be no CN or HCN and there…	…no nitrogen in the fuel, then there…
432	Line 23	…reference conditions from ppm…	…these reference conditions from ppm…
438	Line 9	…deviations in fuel and…	…field deviations in fuel and …
460	Line 20	On the assumption that $T_{AFT} >> T_{refs}$, the…	On the assumption that $T_{AFT} >> T_{ref}$, the…
467	Line 19	NOx reduction, where the…	NOx reduction if the…
477	Table 5.2, Table 5.3	[Order of DF and SS columns is inconsistent with rest of text]	[Order columns as SS followed by DF]
496	Line 19	There seems to be…	There seem to be…
510	Line 7	If we presume negligible heat losses, we have…	If we presume heat transfer to the flue gas and process only, we have…
514	Table 5.9	[Superfluous entries]	[Remove "a = " from first two temperature equations.]
520	Equation 5.156	[Formula contains instances of $\rho\infty$]	[All instances should be subscripted as ρ_∞]
524	Line 11	…makes up for the neglect of radiation and the nucleation time.	…makes up for the nucleation time and neglect of radiation.

Page	Reference	Is	Is Clearer As
583	Table D.2B	[extend list of atomic names]	104 Rutherfordium (261), 105 Dubnium (262), 106 Seaborgium (266), 107 Bohrium (264), 108 Hassium (269), 109 Meitnerium (268), 110 Darmstadtium (271), 111 Roentgentum (272), 112 Ununbium (285), 113 Ununtrium (284), 114 Ununquadium (289).
610	Line 26	…after the binary point, we have	…we have
629	Index	[add entry]	Rules for best models, 69