General Notes:

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

Page	Reference	Is	Should be
47	Line 14	All orthogonal matrices have nonzero elements exclusively along the principal diagonal.	Orthogonal matrices with nonzero elements exclusively along the principal diagonal are *orthogonal*.
48	Eqn 1.33a	$\mathbf{X}^{\mathsf{T}} = \mathbf{D}\mathbf{X}^{-1}$	$\mathbf{X}^{\mathsf{T}} = \sqrt{\mathbf{D}}\mathbf{X}^{-1}$
	Line 6	…$\mathbf{X}^{\mathsf{T}}\mathbf{X} = \mathbf{D}\mathbf{X}^{-1}\mathbf{X} = \mathbf{D}$ =…	…$\mathbf{X}^{\mathsf{T}}\mathbf{X} = \sqrt{\mathbf{D}}\mathbf{X}^{-1}\mathbf{X}\sqrt{\mathbf{D}} = \mathbf{D}$ =…
	Eqn 1.34a	$\mathbf{X}^{\mathsf{T}} = \mathbf{X}^{-1}$	$\mathbf{X}^{\mathsf{T}} = \sqrt{c}\mathbf{X}^{-1}$
	Line 15	…$\mathbf{X}^{\mathsf{T}}\mathbf{X} = c\mathbf{X}^{-1}\mathbf{X} = c\mathbf{I}$ =…	…$\mathbf{X}^{\mathsf{T}}\mathbf{X} = \sqrt{c}\mathbf{X}^{-1}\mathbf{X}\sqrt{c} = c\mathbf{I}$ =…
56	Eqn 1.46	$n = \Sigma k = \mathbf{1}^{\mathsf{T}}\mathbf{1}$	$n = \Sigma(1_k) = \mathbf{1}^{\mathsf{T}}\mathbf{1}$
	Eqn 1.47	$\frac{1}{n} = \frac{1}{\sum k} = \left(\mathbf{1}^{\mathsf{T}}\mathbf{1}\right)^{-1}$	$\frac{1}{n} = \frac{1}{\sum\left(\mathbf{1}_k\right)} = \left(\mathbf{1}^{\mathsf{T}}\mathbf{1}\right)^{-1}$
71	Fig 1.14	[caption] … $A(x) = a_0 + a_1x + a_2x_2$	… $A(x) = a_0 + a_1x + a_2x^2$
73	Fig 1.15	[caption] Moving from left to right…	Moving from right to left…
83	Line 9	… and $g(x)$ are the sum…	… and $g(x)$ is the sum…
87	Eqn 1.99	$y = a_1 e^{\left(\frac{x-m_1}{\sqrt{2}s_1}\right)} + a_2 e^{\left(\frac{x-m_2}{\sqrt{2}s_2}\right)}$ where $a_1 = 1$, $m_1 = 0$, $s_1 = 1/2$, $a_2 = 1$, $m_2 = 2$, and $s_2 = 2$.	$y = a_1 e^{-\left(\frac{x-m_1}{\sqrt{2}s_1}\right)} + a_2 e^{-\left(\frac{x-m_2}{\sqrt{2}s_2}\right)}$ where $a_1 = 1$, $m_1 = 0$, $s_1 = 1/\sqrt{2}$, $a_2 = 1$, $m_2 = 2$, and $s_2 = \sqrt{2}$.
88	Fig 1.16	[Incorrect Figure]	[see "Extras" for proper figure]
102	Line 13	A process heater is…	A process unit is…
113	Eqn 2.1	$CH_\psi + 2\ H_2O \rightarrow CO + \psi/2\ H_2$	$CH_4 + 2\ H_2O \rightarrow CO_2 + 4\ H_2$
137	Lines 4, 5	9.9 kg/mol… 9.52 kg/mol	9.9 kgmol… 9.52 kgmol
142	Fig 2.21	Knowing ψ_{H2O} and ψ_{CO2}, dry, one may…	Knowing y_{H2O} and $y_{CO2,dry}$, one may…
145	Line 13	a 50/50 mixture of CO_2 and H_2O	a 50/50 mixture of CO_2 and CH_4
146	Line 4	The ratio $\sqrt{W_f/W_a}$ is known as…	The ratio W_f/W_a is known as…
158	Fig 2.25	Time Constant, Q/V	Time Constant, $\dot{V}/V$
223	Fig 3.6	[Caption] …5 rows of 5 trees…	…5 rows of 4 trees…
250	Table 3.15	$s = \sqrt{SSE}$	$s = \sqrt{MSE}$
258	Line 3	…are the *standard errors* for each coefficient…	…are the squares of the *standard errors* for each coefficient…
268	Table 3.27	$r^2 = 86.9\%$	[r^2 should include the block entry] $r^2 = 99.9\%$
277	Line 11	$m = \frac{\sum x_k^2/n}{n}$	$m = \sum x_k^2/n$

Page	Reference	Is	Should be
320	Eqn 4.40b	$\mathbf{y} = a_0 + \mathbf{u}^T\mathbf{\Lambda u}$	$\mathbf{y} = \mathbf{u}^T\mathbf{\Lambda u}$
323	Line 9	…from Equation 4.40a, we may…	…from Equation 4.43, we may…
324	Line 3	$y = a_0 + \ldots$	[omit first term: $a_0 +$]
341	Figure 4.9	[Caption] … If the two data points were added at (±√2, 0) rather than (±1, 0) for ($x_1 = x_2$, x_3) …	… If the last two data points were added at $\left(\pm\sqrt{3/2},\pm\sqrt{3/2},0\right)$ rather than (±1, ±1, 0)…
355	Line 7	…the 24 interactions…	…the 24-interaction…
368	Table 4.25	[Superfluous asterisks]	[Remove asterisks from the following row x columns: x_2 x x_1x_3, x_2 x x_2x_3, x_1x_3 x x_2x_3]
371	Table 4.26	[Missing and superfluous asterisks]	[Add asterisks to the following row x columns: x_1x_3 x $x_1x_2x_3$, x_1x_3 x r:$x_1x_2x_3$, $x_1x_2x_3$ x $x_1x_2x_3$, and $x_1x_2x_3$ x r:$x_1x_2x_3$] [Remove asterisks from the following row x columns: x_1x_2 x x_1x_3, x_1x_2 x x_2x_3, x_1x_3 x x_2x_3]
375	Table 4.30	[Superfluous asterisks]	[Remove asterisks from the following row x columns: Kx_1 x Kx_2, Kx_1 x x_1x_2, Kx_2 x x_1x_2]
385	Lines 3, 4	We call Equation 4.78 the *logit* transformation and Equation 4.79 the *logistic regression* model. The functions are inverses. The *probit* transformation converts p to XA and the logit transformation does the inverse.	We call Equation 4.78 the *logit* transformation or *logistic regression* model and we call Equation 4.79 the *probit* transformation. The functions are inverses. The logit transformation converts π to **Xa** and the logit transformation does the inverse.
390	Last two equations	[The label b_{12} is incorrectly repeated]	[The proper labels to the left of the = sign are, in order: b_1, b_{12}, b_{13}, b_{23}, and b_{123}.
391	Eqn 4.95	[b_3 (third) term omits z_3]	… + b_3z_3 + …
404	Line 22	….and $s_{H–H}$ represents the number of moles of H–H bonds…	….and $s_{C–C}$ represents the number of moles of C–C bonds…
432	Line 13	…per million BTUs (lbm/MMBtuh).	…per million BTUs (lbm/MMBtu).
448	Figure 5.4	[$\dot{m}_r + \dot{m}_g$ is shown in two places, above and below the caption "Stack."	[Omit $\dot{m}_r + \dot{m}_g$ above the caption "Stack."]
453	Figure 5.5	[$\dot{m}_r + \dot{m}_g$ is shown in two places, above and below the caption "Stack."	[Omit $\dot{m}_r + \dot{m}_g$ above the caption "Stack."]
455	Line 18	…(2/3)(3%) = 2.33%	…(2/3)(3%) = 2%
462	Line 11	α_s is any factor… steam injection.	α_{steam} is any factor… steam injection.
	Line 15	α_t is any factor… water injection.	α_{water} is any factor… water injection.

Page	Reference	Is	Should be
475	Line 4	$\frac{y_{NO}}{y_{NO,0}} = \ln\left[\frac{(M-1)e^{-k\theta(M-1)y_{NO,0}}}{1-e^{-k\theta(M-1)y_{NO,0}}}\right]$	$\frac{y_{NO}}{y_{NO,0}} = \frac{(M-1)e^{-k\theta(M-1)y_{NO,0}}}{1-e^{-k\theta(M-1)y_{NO,0}}}$ (5.98) [Note: derivation for Eqn 5.98 now becomes superfluous]
476	Line 8	…negative log of the initial…	…initial…
495	Line 17	However, the values y_0 and Y_1 represent…	However, the values y_0 and Y_0 represent…
	Line 25, 26	…DFM = 11, and DFE = 2.	…DFM = 2, and DFE = 11.
521	Line 27	Ammonium bisulfate…	Ammonium bisulfite…