

**Introductory Probability and Statistics:
Applications for Forestry and the Natural Sciences**

A. Kozak, R. A. Kozak, C. L. Staudhammer and S. B. Watts

Errata

Errors and omissions detected up to February 2009

PAGE #	LINE # / LOCATION	ERROR	REVISION
Contents:			
V	8	1.3 Measurement Scales (page number)	should be page 4
V	9	1.4 Data Collection (page number)	should be page 5
VI	18	7.3 Sampling Distribution of...(page number)	should be page 123
Chapter 2:			
19	Fig. 2.9 and 2.10	(labeling)	Both figures are missing the “a” and “b” designations that are referred to in the text.
21	26	15.784	15.734
22	10	\bar{x}	\tilde{x}
24	19	$(16.8 - 15.8)^2 = 2.14$	$(16.8 - 15.8)^2 = 3.14$
26	25	P.L. Chebyshev (spacing issue)	spacing should be adjusted
28	11	Table 2.3	Table 2.4
29	14	Paragraph beginning, “The coefficient of variation...”	should use regular text font (not example font)
Chapter 3:			
48	19	Example 3.17	Example 3.18
49	29	$P(B) = P(B A)$	$P(B) = P(B A)$
51	last	$P(S_2 S_2)$	$P(S_2 S_1)$
Chapter 4:			
71	26	$(11^2)^{\frac{1}{8}}$	$(11^2)^{\frac{3}{8}}$
72	13	-0.220	-0.222
Chapter 5:			
82	5	0.0746+0.0105+0.00010 ≈ 0.0861	0.0746+0.0105+0.0010 ≈ 0.0861
84	5	0.0285	0.0506

Chapter 6:			
96	13	$\dots = P(X > 8) - P(X > 4)$	$\dots = P(X < 8) - P(X < 4)$
103	14	5.7	5.75
104	3	$0.6331 - 0.6179 \approx 0.0152$	$0.3821 - 0.3669 \approx 0.0152$
104	14	$P(Z > -0.78)$	$P(Z > 0.78)$
Chapter 7:			
122	Fig. 7.8	$s_t = 1.0$	$s_t = 1.074$
127	Fig. 7.11	(labeling)	figure is missing the “a”, “b”, and “c” designations that are referred to in the text.
130	2	160	16.0
130	Example 7.11	Table in example (case) S_1, S_2	s_1, s_2
131	Fig. 7.14	$s_t = 1.0$	$s_t = 1.069$
131	Fig. 7.15	$s_t = 1.0$	$s_t = 1.074$
131	Example 7.12	Table in example (case) S_1, S_2	s_1, s_2
133	Fig. 7.16	$\sigma_t = 1.0$	$\sigma_z = 1.0$
133	8	$1.0 - 0.9306 \approx 0.0694$	$1.0 - 0.9319 \approx 0.0681$
134	Fig. 7.17	$s_t = 1.0$	$s_t = 1.414$
135	Fig. 7.18	0.434	0.0434
138	Fig. 7.21 (b)	$v_2/v_1 - 1$	$v_2/(v_2 - 2)$
Chapter 8:			
160	8	$v = 12 + 8 - 2 = 18$	$v = 12 + 8 - 2 = 18$
160	last	$P(1.257 < \mu_1 - \mu_2 < 2.903) = 0.95$ $E=0.823$	$P(1.219 < \mu_1 - \mu_2 < 2.941) = 0.9$ $E=0.861$
163	11	0.0802	0.0886
163	13	0.0802 (two occurrences)	0.0886
163	14	$P(-0.157 < p_1 - p_2 < 0.257) = 0.99$	$P(-0.179 < p_1 - p_2 < 0.279) = 0.9$
166	24	$P\left(\frac{1.44}{0.25} - \frac{1}{3.82} < \frac{\sigma_1^2}{\sigma_2^2} < \frac{1.44}{0.25} + \frac{1}{3.59}\right) = 0.95$	$P\left(\frac{1.44}{0.25} - \frac{1}{3.92} < \frac{\sigma_1^2}{\sigma_2^2} < \frac{1.44}{0.25} + \frac{1}{3.59}\right) = 0.9$
166	25	$P\left(1.508 < \frac{\sigma_1^2}{\sigma_2^2} < 20.678\right) = 0.95$	$P\left(1.469 < \frac{\sigma_1^2}{\sigma_2^2} < 20.678\right) = 0.9$

Chapter 9:			
176	Fig. 9.3	(formatting)	the light grey shading should go all the way to the right until the end of the distribution (and not stop at the dotted line)
177	second to last	0.1537	0.1539
181	Example 9.4, #7	0.579	0.578
188	Example 9.11, #7	$t_{(18)} = \frac{(1.72 - 0.93) - 0}{0.265} \approx -0.798$	$t_{(18)} = \frac{(1.72 - 1.93) - 0}{0.265} \approx -0.79$
193	4	Section 9.5.1	Section 9.5
195	Example 9.17, #7	$F_{(11,9)} = \frac{1.44}{0.24} \approx 5.76$	$F_{(11,9)} = \frac{1.44}{0.25} \approx 5.76$
196	Example 9.17 (part II), #7	$F_{(11,9)} = \frac{1.44}{0.24} \frac{1}{3.0} \approx 1.92$	$F_{(11,9)} = \frac{1.44}{0.25} \frac{1}{3.0} \approx 1.92$
Chapter 10:			
203	3	1.05418	1.0626
203	4	1.05418	1.0626
204	6	$P(x=0;1.7) = \frac{e^{-1.69} 1.69^0}{0!} = 0.18$	$P(x=0;1.7) = \frac{e^{-1.7} 1.7^0}{0!} = 0.18$
204	7	$P(x=1;1.7) = \frac{e^{-1.69} 1.69^1}{1!} = 0.310$	$P(x=1;1.7) = \frac{e^{-1.7} 1.7^1}{1!} = 0.31$
206	2	0.6255	0.6293
211	6	0.9	0.91
211	Equation 10.4	$\{ O_{ij} - 0.5\}^2$	$\{ O_{ij} - 0.5\}^2$ (the rest of the formula is fine)
212	8	11.85	13.12
Chapter 11:			
234	12	$5.47 > 2.31$	$5.47 < 2.31$
241	20	(remove comma at end of formula)	$SS_T = SS_{Reg} + SS_{Res}$
243	Table (at top of page), row 5	85,169	84,169
243	Table (at top of page), row 13	48,238	42,238

244	19	$b(\ln(x_i))$	$b(\ln(x_i))$
Chapter 12:			
258	4 th line from bottom	$\frac{219.4^2}{4}$	$\frac{209.9^2}{4}$
260	Example 12.4	(omission)	at the end of the first sentence of the example, please include the following parenthetic statement, (Please note that the units of modulus of rupture here are 10 times those of the units used in Example 12.2).
260	20	4.44	4.34
263	9	$0.1458 = 0.15$	$(2.93)(0.1458) = 0.43$
263	10	$0.8 > 0.15$	$0.8 > 0.43$
263	17	$0.1 < 0.15$	$0.1 < 0.43$
264	Example 12.6	(omission)	at the end of the first sentence of the example, please include the following parenthetic statement, (Please note that the units of modulus of rupture here are 10 times those of the units used in Example 12.2).
265	27 to end of page	(formatting) all capital "S" terms (in text and formulae) should be lower case	s
266	14	27,163.6	3,018.18
266	20	2.2789	2.2712
267	Table 12.10, second row, k column	$T_{11.}$	$T_{k1.}$
267	Table 12.10, fourth row, k column	$y_{k.}$	$\bar{y}_{k2.}$
267	Table 12.10, after the 6 th row	(omission) entire row is missing in the second line of the t row (should come under the Y terms) in columns 1, 2, and k.	$T_{1t.} \bar{y}_{1t.}$ $T_{2t.} \bar{y}_{2t.}$ $T_{kt.} \bar{y}_{kt.}$
269	Table 12.12	F_2 under Western red cedar 3.2	3.8
270	3	3.2^2	3.8^2

Chapter 14:			
289	8	Section 9.5b	Section 9.5
Chapter 15:			
310	27	0.00276	0.0312
310	28	$UCL=0.010+3(0.00276) = 0.0183$	$UCL=0.010+3(0.0312) = 0.104$
310	29	$LCL=0.010 - 3(0.00276) = 0.0017$	$LCL=0.010 - 3(0.0312) = -0.0084$, use 0
311	1	$UWL=0.010+2(0.00276) = 0.0155$	$UWL=0.010+2(0.0312) = 0.072$
311	2	$LWL=0.010 - 2(0.00276) = -0.0045$	$LWL=0.010 - 2(0.0312) = -0.052$, use 0
311	Figure 15.7	y-axis scale	0.00, 0.05, 0.10, and 0.15
311	Figure 15.7	$UCL = 0.0213$	$UCL = 0.104$
311	Figure 15.7	$UWL = 0.0175$	$UWL = 0.072$
311	Figure 15.7	$UWL = 0.0025$, $LCL = 0.000$	$LWL = LCL = 0.000$
Solutions:			
321	Q1.7.n	1 March 2006	01-03-2006
Appendices:			
385	13	$\sum_{i=1}^n x_i x_y = \dots$	$\sum_{i=1}^n x_i y_i = \dots$
Glossary:			
395	properties of probability	(3)	(iii)