## Errata: Elements of Large-Sample Theory - Erich L. Lehmann (1999) Errata Update: 20 July, 2021

Original document: sites.psu.edu/drh20/david-hunters-home-page/asymptotics-notes/errata/ This document (19<sup>th</sup> November, 2024): github.com/zekiakyol/compact-erratas

| This document (19 <sup>th</sup> November, 2024): github.com | ,   |
|---|---|
| • Location  | <b>✗</b> Correction   |
| Page 2, footnote at bottom of page                          | "connction" should be "connection"  |
| Page 7, Lemma 1.1.1   | "symptotically" should be "asymptotically"  |
| <b>Page 8</b> , line above (1.1.28)                         | "formula" should be plural  |
| Page 11, Tables 1.2.3 and 1.2.4                             | The bottom row in each table should be labeled with the Poisson                       |
|   | parameter $\lambda$ , not $\gamma$ .  |
| Page 11, the three lines above Table 1.2.4                  | $\gamma = \alpha$ should be $p = \alpha$ and $\gamma = .02$ should be $p = .02$ .     |
| Page 12, second paragraph, sentence beginning               | Since $\gamma$ should not be in Table 1.2.4, the parenthetical expression             |
| with "The third row"  | "(with $\lambda$ in place of $\gamma$ )" seems unnecessary.                           |
| <b>Page 15</b> , Expression (1.3.3)                         | denominator should be $i^{\alpha}$ , not $i^{a}$                                      |
| Page 16, Equation (1.3.9)                                   | 1 should not be bold  |
| Page 17, Example 1.3.5                                      | If $\alpha$ is a non-negative integer, the series has infinite radius of convergence. |
| Page 21, bottom right entry of Table 1.4.3                  | .0197 should be .0192   |
| Page 22, top line   | "number" should be plural   |
| Page 27, Inequality (1.5.3)                                 | Missing " $<\epsilon$ ". Should be $ f(x) - a  < \epsilon$ .                          |
| Page 29, second paragraph                                   | Should read "at $x_0$ is continuous at $x_0$ ."                                       |
| Page 36, Problem 1.17                                       | Should be $\gamma^n \to 0$  |
| Page 37, Problem 1.18 in the hint                           | Should say "Suppose $\gamma > 1$ ."   |
| Page 37, Problem 2.5  | Both terms asymptotically equivalent to $P_n(x)$ should be divided                    |
|   | by $x!$ .   |
| Page 42, Problem 5.1  | Definition 1.5.1 does not apply to this situation. The problem                        |
|   | might be rephrased "Extend Definition 1.5.1 and use it to show                        |
|   | that"   |
| Page 43, Problem 5.10, second line                          | lowercase $f$ should be capital   |
| Page 43, Problem 5.11, Hint for (i)                         | The first sentence of the hint is false. Nothing is harmed by delet-                  |
| ,                     | ing it.   |
| Page 44, Problem 5.14                                       | The statement is not true. It could be made true by (for example)                     |
|   | specifying that the $b_n$ are non-decreasing.   |
| Page 45, Problem 6.9  | "id" should be "is"   |
| Page 47, line 6   | "give" should be "gives"  |
| Page 52, 5 lines from bottom                                | should read, "which tends to $a + 1$ if"  |
| Page 54, Equations (2.1.19)                                 | These results are identical to (2.1.18) and are therefore redundant.                  |
| Page 57, sentence beginning 'By Theorem 2.1.1,              | $Y_n$ should be $\delta_n$ .  |
| a sufficient"   |   |
| Page 58, line above (2.2.11)                                | relative efficiency is defined in Section 4.3, not 4.2                                |
| Page 58, Caption of Table 2.2.1                             | word "of" should be omitted   |
| <b>Page 59</b> , expression for variance of $\beta$         | numerator of rightmost fraction should be $\sigma^2$ , not 1                          |
| Page 59, Equation (2.2.19)                                  | numerator of second fraction should be $\overline{v}^2$ , not 1                       |
| Page 62, limits of summation in (2.2.31);                   | Should start with $k = 0$ , not $k = 1$ (this is irrelevant unless $\sigma^2$ is      |
| Page 63 limits of summation below (2.2.34)                  | infinite)   |
| Page 62, Example 2.2.7                                      | While there is nothing technically wrong here, the sequences de-                      |
|   | fined are actually $(m-1)$ -dependent in addition to being $m$ -                      |
|   | dependent.  |
| Page 63, bottom of page in $(2.3.1)$                        | Limit is as $n \to \infty$ , not $x \to \infty$                                       |
| Page 65, Example 2.3.3, equation underneath                 | $F\left(x-\frac{1}{n}\right)$ should be $P\left(x-\frac{1}{n}\right)$                 |
| "have cdf $H'_n$ "  | $\begin{bmatrix} 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 $                              |
| Page 69, line above Equation $(2.3.11)$                     | Problem 1.17 should be Problem 1.1.17   |
| Page 72, Example 2.3.9, equations underneath                | First $F$ should be $f$   |
| "then"  |   |
| Page 78, second line from bottom                            | pronoun "it" has wrong antecedent   |
|   | 1   |

| D 70 I' '4 (0 4 19)   |  |
|---|--|
| Page 79, Limit (2.4.13)                                     | In the denominator, the $p$ and $q$ could have subscripted $n$ (this one   |
| D 01 I: 11 (0 4 10)   | is a bit questionable, but would probably improve readability)             |
| Page 81, Limit (2.4.19)                                     | Convergence in distribution symbol is missing the $L$                      |
| Page 81, second to last line                                | word "the" is repeated   |
| Page 82, Table 2.4.2, first column, rows 5, 8,              | $1 - G_n(X)$ should be $1 - \Phi(X)$                                       |
| 11, 14, and 17  |  |
| Page 82, equation in middle of page                         | Numerator of fraction should be $\chi_n^2 n$ , not $\chi_n^2$              |
| Page 82, 9 lines from bottom                                | $\chi_{2k}^2$ should be $\chi_k^2$   |
| Page 83, line above Equation (2.4.21)                       | $\sigma^2$ should be $\sigma^3$  |
| Page 83, Equation (2.4.21)                                  | $[1-x^2\phi(x)]$ should be $[1-x^2]\phi(x)$                                |
| Page 83, 9 lines from bottom                                | "Balakrishman" should be "Balakrishnan"                                    |
| Page 86, limit at bottom of page;                           | convergence in distribution symbol is missing $L$                          |
| Page 87, limit at top of page                               |  |
| Page 88, limit (2.5.9)                                      | convergence in distribution symbol is missing $L$                          |
| <b>Page 89</b> , Equation (2.5.11)                          | $\overline{X}$ should be under a radical everywhere it appears             |
| Page 90, limit at top of page                               | One of the convergence in distribution symbols is missing $L$              |
| Page 90, both limits in Example 2.5.5;                      | convenience in distribution growshal is missing I                          |
| Page 91, first limit in Example 2.5.6                       | convergence in distribution symbol is missing $L$                          |
| Page 93, Equation (2.6.1)                                   | $P$ should be $P_{\theta}$ (questionable)                                  |
| <b>Page 94</b> , line beginning "For any fixed $n, \dots$ " | "tends to 0" should be "tends to 1"  |
| Page 99, bottom of page;                                    |  |
| Page 101, equation (2.7.14);                                | . 1 / \3   |
| Page 102, equation (2.7.16);                                | expressions such as $o(x)^3$ are not actually defined and should be        |
| Page 102, equations in proof of Theorem 2.7.4               | $o[(x)^3]$   |
| Page 101, sentence above Theorem 2.7.2                      | "(A')" should be "(B)"   |
| Page 101, Equation (2.7.13)                                 | $\overline{\text{Var } X_n \text{ should be } \overline{X_n}}$             |
| Page 103, Example 2.7.5                                     | The assumptions given do not imply asymptotic normality as                 |
| age 103, Example 2.7.9                                      | claimed. Sufficient conditions that do work are as follows: Sup-           |
|   |  |
|   | pose that $Y_i$ is defined as given, and suppose that $E Y_i ^3 < M$ for   |
|   | all $i$ for some finite $M$ . Then the assumptions of Theorem 2.7.3 are    |
|   | NOT satisfied; instead, though, we can use Theorem 2.7.2 directly          |
| D 109 Eti (2.7.21)1thti                                     | to obtain the desired asymptotic normality.                                |
| Page 103, Equation (2.7.21) and the equation                | The square root of the sum of $1/\sigma_j^2$ should be in the numerator of |
| just above it   | each fraction, not the denominator   |
| Page 105, line above Theorem 2.7.5                          | (7.27) should be (2.7.27)  |
| Page 105, three lines above (2.7.29)                        | "hence by (7.25)" should be "hence by (2.7.25)"                            |
| Page 105, equation on last line                             | missing factor of $(1-p_i)$ just to the left of the last equals sign       |
| Page 106, summary items 1 and 2                             | The roles of (A') and (B) are switched. This happens 3 times.              |
| Page 110, lines 6-7   | The fact that the $X_i$ are identically distributed is necessary but       |
|   | not sufficient for stationarity  |
| Page 111, line above equation (2.8.22)                      | "(8.20)" should be "(2.8.21)"  |
| Page 111, 4 lines below Equation (2.8.24)                   | "(2.8.20)" should be "(2.8.21)"  |
| Page 111, equation following "Using the fact                | $\gamma_{k-1}$ should be $\gamma_k$  |
| that"   |  |
| Page 117, sentence before equation (2.8.48)                 | "(2.8.45)" should be "(2.8.46)"  |
| Page 119, Problem 1.3 at the end of the hint                | First, there's a missing "]" to match the one before Hint. Second,         |
|   | $ Y_n - c  > b$ should be $ Y_n - c  < b$ .                                |
| Page 120, Problem 2.1                                       | The statement is false. The absolute value of the sample mean              |
|   | tends to infinity in this case, but with probability 1, the sample         |
|   | mean itself does not converge to any value, finite or infinite.            |
| Page 122, Problem 3.5                                       | "arbitrary" should be "arbitrarily". Also, a right bracket is missing      |
|   | after the hint.  |
| Page 124, Problem 3.17                                      | This is exactly the same as Problem 3.6 on p. 122.                         |
| Page 125, Problem 4.5, second line of hint                  | $X_{m-1}$ should be $X_{(m+1)}$  |
| Page 132, Problem 8.16(i)                                   | The equality is not true (however, it is true as an asymptotic             |
|   | equivalence).  |
| Page 136, Equation (3.1.19)                                 | $\theta_n$ should be $\theta_0$  |
|   | -  |

| Page 138, Lemma 3.1.1                            | It must be stated that $U$ and $V$ are independent, or the lemma can  |
|--|---|
| Page 140, big fraction on left above "and hence  | fail. In the denominator, $\sigma$ and $\tau$ should not have hats.   |
| by Slutsky's theorem"                            |   |
| Page 142, Expression (3.1.39)                    | "for all $n > n_0(\vartheta)$ " should be deleted.  |
| Page 144, Equation (3.1.48)                      | X and $Y$ are missing bars in denominator.  |
| Page 145, Expression (3.1.54)                    | The $\hat{\tau}'_n$ on the left hand side should not be primed.   |
| Page 149, Equation (3.2.12)                      | Denominator is missing a factor of $\sqrt{1/m+1/n}$ .   |
| Page 150, just above (3.2.15)                    | "such as sequence" should be "such a sequence".   |
| Page 150, statement (3.2.16)                     | $\infty$ should be 1.   |
| Page 151, second to last line                    | (3.2.31) should be (3.2.13).  |
| Page 154, statement (3.2.26)                     | "assignment" is misspelled.   |
| Page 159, line immediately following proof of    | 3.2.2 should be 3.3.2.  |
| Theorem 3.3.2                                    |   |
| Page 162, Table 3.3.1                            | "Level" should appear above "Exact" and "Approx." instead of above the column of $p_0$ values.                                  |
| Page 162, Table 3.3.1                            | "Power at $\Delta = .1$ " should be "Power at $\Delta = 1$ " or "Power at   |
| <b>3</b>   | $p-p_0=.1$ ".   |
| Page 162, 4th line below table                   | "tables" should be "table".   |
| Page 162, 7th line below table                   | "as $p_0$ moves away from $1/2$ " should be "as $p_0$ moves toward $1/2$ ".   |
| Page 163, last line of Theorem 3.3.4             | $	au^2(\theta_0, \vartheta)$ should be $\hat{\tau}_n^2$ .   |
| Page 164, Expressions (3.3.23)                   | convergence in distribution symbols are missing $L$ .   |
| Page 165, Equation (3.3.27)                      | Denominator should have $\sqrt{\lambda}$ instead of $\lambda$ .   |
| Page 170, first line of text                     | 3.2.2 should be 3.3.2.  |
| Page 175, 3 lines from bottom                    | "assumptions" is misspelled.  |
| Page 181, 2nd line of Example 3.4.6              | 3.4.3 should be 3.4.4.  |
| Page 206, first identity in Hint for Problem 2.4 | $\frac{m}{n}$ should be $\frac{m}{N}$ .   |
| Page 207, Problem 2.10(i)                        | Should say $E(Z_i^2) = \sigma^2$ , not $E(Z_i) = \sigma^2$ .  |
| Page 247, Equation (4.3.37)                      | Denominator is missing a factor of 12.  |
| Page 278, first line and equation (5.1.1)        | $\ \underline{x},\underline{y}\ $ should be replaced by $\ \underline{x}-\underline{y}\ $ or $d(\underline{x},\underline{y})$ . |
| Page 280, Figure 5.1.1                           | Figure (b) has an extra space and $S$ is not defined for either figure.   |
| Page 281, 2nd equation from bottom               | missing comma in $N\left(0, \frac{\sigma^2}{\lambda}\right)$  |
| Page 282, first equation                         | Convergence in distribution symbol missing $L$  |
| Page 282, last equation before Example 5.1.2     | misplaced parentheses on the left hand side   |
| Page 282, 3rd line of Example 5.1.2              | "marginal" is misspelled  |
| Page 282, last equation before bottom            | missing minus signs in exponents of $e$   |
| Page 284, line above (5.1.24)                    | Theorem 5.1.7 should be Theorem 5.1.8   |
| Page 290, (5.2.10) and (5.2.11)                  | variances missing factor of $n$ ; correlation missing root- $n$   |
| Page 294, 4th line below (5.2.24)                | "tha" should be "the" and "continue" should be "continues"  |
| Page 299, Equation (5.2.50)                      | term involving $\mu_3$ should be subtracted, not added (occurs twice)   |
| Page 300, matrix in (5.3.2)                      | The columns are too close together  |
| Page 303, Equation (5.3.16)                      | lowercase "a" on left hand side should be "A"   |
| Page 305, last line of Theorem 5.3.3             | the word "its" is missing between "of" and "off-diagonal"   |
| Page 305, line after (5.3.29)                    | (5.3.27) should be (5.3.28)   |
| Page 306, last displayed equation on page        | $C'_1$ should be inverted   |
| Page 307, Equation (5.3.37)                      | $ J $ should be replaced by $ J ^{-1}$ in two places  |
| Page 309, first line of item 5 in summary        | "transformation" is misspelled  |
| Page 309, summary item 6                         | "the Jacobian" should be "the reciprocal of the Jacobian"   |
| Page 312, second equation from bottom            | large summation symbol should be replaced by normal-sized capital $\Sigma$  |
| Page 313, Theorem 5.4.3                          | All the means in part (i) are incorrect due to left-multiplication by $A^{1/2}$   |
| Page 313, 2nd line from bottom                   | sum with $j$ running from 1 to $k$ should be a double sum, with $j$ from 1 to $n$ and $i$ from 1 to $k$                         |
| Page 314, Equation (5.4.14)                      | $j \neq 1$ should be $j \neq i$   |
| · · · /  |   |

| Page 317, Expression (5.4.34)                                   | $X_iY_i$ should be $(X_i - \xi)(Y_i - \eta)$ . Also, convergence in distribution  |
|---|---|
|   | symbol is missing $L$   |
| Page 318, Expression (5.4.42)                                   | Convergence in distribution symbol is missing $L$   |
| Page 319, 4th line of item 4 in summary                         | Convergence in distribution symbol is missing $L$ and capital $N$ (for normal) is missing   |
| Page 322, (5.5.14) and the two preceding ex-                    | Convergence in distribution symbol is missing $L$   |
| pressions   |   |
| Page 328, last equation   | Convergence in distribution symbol is missing $L$   |
| Page 329, third line after (5.5.49)                             | $(0 < \rho < 1)$ should be $(0 < \rho < \infty)$  |
| Page 333, Expression (5.6.23)                                   | Convergence in distribution symbol is missing $L$   |
| Page 339, top line  | "following" should be "falling"   |
| Page 350, Problem 1.2 (ii)                                      | The function given doesn't work; try something like $f(x_1, x_2) =$   |
|   | $I(x_1x_2=0)$   |
| Page 351, last line   | missing ) in $X_{(n-1)}$  |
| Page 365, equation preceding (6.1.2)                            | last argument should be $X_{i_a}$ , not $X_{i_1}$   |
| Page 366, third line  | should begin with $0 < \operatorname{Var}(\phi(X_1)) < \infty$  |
| Page 366, line beginning with (a)                               | "statistics" should be "statistic"  |
| Page 369, Theorems 6.1.2, 6.1.4, 6.2.1                          | Cannot verify these theorems without assuming that all the $\sigma_i^2$ are   |
|   | finite. If it's truly possible that $\sigma_1^2 < \infty$ and $\sigma_2^2 = \infty$ and (6.1.20)                                  |
|   | still holds, then an example of such behavior would be helpful.   |
| Page 371, last line of text                                     | (1.6.30) should be $(6.1.30)$   |
| Page 373, Equation (6.1.40)                                     | both summation indices should start with 0, not 1   |
| Page 382, 6th line after (6.2.3)                                | $\widehat{F}_n^{-1}$ should be $\widehat{F}_n^{-1}(p)$  |
| Page 389, line after (6.2.41)                                   | "order statistics" should be "order statistic"  |
| Page 398, Expression (6.2.42)                                   | convergence in distribution symbol is missing $L$ and final ) is miss-  |
|   | ing   |
| Page 409, 2nd line  | "natural" is misspelled   |
| Page 415, Equation (6.4.44)                                     | no space between $3/4$ and $(1-z^2)$  |
| Page 420, Caption for Table 6.4.1                               | (6.4.67) should be $(6.4.66)$   |
| Page 422, Equation (6.5.5)                                      | misplaced right bracket should be before $\leq$ instead of after $a$  |
| Page 425, Expression (6.5.14)                                   | missing limit $p$   |
| Page 425, two lines down from (6.5.15)                          | period missing at end of sentence   |
| Page 428, 2nd line  | "estimator" is misspelled   |
| Page 432-433, Equations (6.5.44), (6.5.45),                     | all $\sqrt{n}$ should be $n$  |
| (6.5.47), $(6.5.48)$ , and the equation after $(6.5.48)$        | $\Gamma/\Gamma$   |
| Page 438, Problem 1.17  | Issue with assumptions; $E(T_n^* - T_n)^2 = Var(T_n) - 4\sigma_1^2$ , which only goes to zero if $\sigma_2^2$ is finite           |
| Page 438, Problem 1.18  | Several corrections: $\lambda$ should satisfy $\frac{1}{2} \leq \lambda < \frac{1}{\sqrt{2}}; -\frac{1}{2}y^2$ should be          |
| Do no. 420 Duchlana 2.0   | in exponent of $e$ ; in second equation in hint, $X_e$ should be $X_3$  |
| Page 439, Problem 2.2   | Right-hand side of the equation should be divided by n  |
| Page 453, Equation (7.1.5)                                      | last exponent contains unnecessary e  |
| Page 454, 3rd line after (7.1.9)                                | "density" is misspelled   |
| <b>Page 454</b> , Figure 7.1.1                                  | on x-axis, 0 could be $-1$ and $\theta - c(\theta)$ and $\theta + c(\theta)$ should be on one line                                |
| Page 455, 14th line from bottom                                 | "densities" is misspelled   |
| Page 455, 14th line from bottom  Page 455, 9th line from bottom | "Examples 7.1.1 and 7.1.2" should be "Examples 7.1.2 and 7.1.3"   |
| Page 456, 13th line   | "Section 7.5" should be "Section 7.4"   |
| Page 457, 5th line  | 7.1.2 should be 7.1.3   |
| Page 457, 5th line Page 457, line after (7.1.17)                | "likelihood" is misspelled  |
| Page 457, and line from bottom                                  | "Section 6.3" should be "Section 7.3"   |
| Page 461, first line  | "Section 1.3" should be "Section 7.3"   |
| Page 463, first equation  | Equation is incorrect; should be $\frac{\partial}{\partial \theta} \log f_{\theta}(x) = \frac{3\theta^2(x-\theta^3)}{\sigma_0^2}$ |
|   |   |
| Page 463, second equation                                       | $9\theta^4\sigma_0^2$ should be $9\theta^4/\sigma_0^2$  |
| <b>Page 463</b> , line after (7.2.4)                            | 'As was seen in (2.2.17)" should be "As was seen in Example 2.3.7"; "tends" is misspelled   |
| Page 463, 4 lines above (7.2.5)                                 | "According to (7.2.7)" should be "According to (7.1.27)"  |
| 1 480 100, 1 mics above (1.2.0)                                 | Trecording to (1.2.1) billouid by Trecording to (1.1.21)  |

| Page 463, last equation   | Missing factor of $\theta$ in both denominators; first should be $\theta^3$ , second          |
|---|---|
| <b>3</b>  | should be $\theta^2$  |
| Page 472, 3rd line from bottom  | 7.2.1 should be 7.3.1   |
| Page 473, two lines above (7.3.17)  | "of degree $k$ " should be "of degree $2k$ "  |
| Page 476, Equation (7.3.26)   | One of the $\theta_n$ is missing a tilde  |
| Page 476, equation above (7.3.29)   | Denominator of first fraction should be $l_n''(\theta_0)/n$ instead of                        |
| D 400 1 1   | $ l_n''(\theta_0)/\sqrt{n} $  |
| Page 483, header  | Header has wrong section number and title (should be 7.3)                                     |
| Page 483, line after (7.3.56)   | "variables" should be "variable"  |
| Page 485, 3 lines before Example 7.4.1  | "uniformly" is misspelled   |
| Page 486, line 14   | "uniformly" is misspelled Convergence in distribution symbols are missing $L$                 |
| Page 486-487, Expressions (7.4.6) and (7.4.7) Page 487, Expression (7.4.9)                | The 2 and the $a^2$ are switched  |
| Page 492, 4th line;   | The 2 and the <i>a</i> are switched   |
| Page 495, line below (7.4.33)   | "Jeffreys" should have no apostrophe  |
| Page 495, Equation (7.4.33)   | $\lambda^2$ should be $1/\lambda^2$   |
| Page 497, general comment on section 7.5  | Why have underlines for vectors been abandoned?   |
| Page 497, general comment on section 7.5  Page 497, equations above (7.5.2)               | Should be taking the derivatives of the log-likelihood, not the likeli-                       |
| gc-, equations asort (1.0.2)  | hood  |
| Page 500, Corollary 7.5.1   | 7.5.1(ii) should be 7.5.1(i)  |
| Page 500, equation (7.5.13)   | right-hand side should be $(J')^{-1}I(\theta)J^{-1}$  |
| Page 501, 5 different places in (M6) and (M7)   | k is already the size of the parameter vector, so it should not be                            |
|   | used as a dummy   |
| Page 502, Expression (7.5.19) and last expres-  | convergence in distribution symbols are missing $L$   |
| sion on page  |   |
| Page 508, line below (7.5.51)   | "consistent" is misspelled  |
| Page 512, line below (7.6.10)   | "Dirichlet" is misspelled   |
| Page 513, line above (7.6.16)   | 5.4.3 should be 7.5.4   |
| Page 526, line below (7.7.7)  | "solely" is misspelled  |
| Page 527, Expression (7.7.15) and Expression (7.7.16)                                     | $\theta$ is missing a subscript $n$   |
| Page 528, Example 7.7.1, first two lines  | $N(0,1)$ should be $N(\theta,1)$ and "Example 7.1.3" should be "Exam-                         |
| Dago 528 gogand equation in Eventule 7.7.1  | ple 7.1.4" right-hand side should be $n\overline{x}^2$  |
| Page 528, second equation in Example 7.7.1  Page 530, sentence in Example 7.2.2 beginning | Should read "The Rao scores test of $H: \theta = \theta_0$ against $\theta > \theta_0$ ";     |
| "The Rao scores test"   | also, two instances of $\theta$ should be replaced by $\theta_0$ and $\geq u_{\alpha}$ should |
| The Itao scores test  | be inserted before the period.  |
| Page 531, 11 lines from bottom  | "second and third factors" should be "third and fourth factors"                               |
| Page 551, Problem 1.7   | 7.1.2 should be 7.1.3   |
| Page 552, Problem 1.10(ii)  | "binomial" should be "Bernoulli"  |
| Page 561, inequality at top of page   | set inclusion symbol mistakenly written as $\epsilon$   |
| Page 562, Problem 6.8   | "proved" should be "prove"  |
| Page 563, Problem 6.12  | Problem is incorrect. It should likely read that $A - B$ is also posi-                        |
| D Kao D 11 040  | tive semi-definite  |
| Page 563, Problem 6.12  | "Theorem 6.4.7" should be "Theorem 7.6.4"   |
| Page 563, equation in Problem 6.15  | mismatched left bracket with right parenthesis  |
| Page 565, Problem 7.9   | "interval" is misspelled  |
| Page 576, Expression (A.3.1)  | $x_n$ should be $X_n$   |
| Page 577, top line Page 577, Expression (A.3.4) and the next 5                            | $P(X_N = 0)$ should be $P(X_n = 0)$<br>All instances of $x$ should be $X$                     |
| lines Page 577, Expression (A.3.4) and the next 5   | All instances of $x$ should be $A$  |
| Page 577, line below (A.3.8)  | "by (A.3.6), the probability of the event (A.3.5)" should be "by                              |
| ,   | (A.3.5), the probability of the event (A.3.4)"  |
| Page 577, last full paragraph   | $x_1, x_2$ should be $X_1, X_2$   |
| Page 578, first centered formula  | $P(T_n - \theta   < c)$ is missing the left absolute value sign                               |
| Page 609, entry for Bahadur   | "411" should be "511"   |
| Page 616, entry for "Bandwidth"   | should be included with the B's, not the A's  |