

Errata

Notation

- Infinite unions and intersections should be defined as

$$\bigcup_{i=1}^{\infty} A_i \stackrel{\text{def}}{=} \{x : x \in A_i, \exists i\} \quad \text{and} \quad \bigcap_{i=1}^{\infty} A_i \stackrel{\text{def}}{=} \{x : x \in A_i, \forall i\}.$$

Chapter 1

- In Problem 9, in the equation defining K_1 , $[0.1/3]$ should be $[0, 1/3]$.

Chapter 2

- Problem 13/14 should have a single number.

Chapter 8

- Page 135: On line 7, $h_t(X)$ should be $h_t(X_n)$; on line 15, α should be t ; and the expression on line 18 equals 0.
- In the next to last line of Problem 35, X_{m_n} should be X_{M_n} .

Chapter 9

- On the last line of page 165, $\hat{\theta}^2 - 2\hat{\theta}\theta + \hat{\theta}^2$ should be $\hat{\theta}^2 - 2\hat{\theta}\theta + \theta^2$.
- In Problem 5, “maximum likelihood estimation!inconsistent example” should be deleted, and the empty Problem 4 should be deleted.
- In the displayed equation in Problem 40, “ $g(x)$ ” should be “ $g(X_0)$ ”.

Chapter 12

- In Problem 30b, the functions are increasing for $x \in [0, \infty)$.

Chapter 17

- In Section 2, $o_p(\nabla l_n(\tilde{\theta}_n))$, $o_p(Y_n)$, $o_p(\check{Y})$, $o_p(\check{Y}_1)$, or $o_p(\check{Y}_2)$ should be $o_p(\|\nabla l_n(\tilde{\theta}_n)\|)$, $o_p(\|Y_n\|)$, $o_p(\|\check{Y}\|)$, $o_p(\|\check{Y}_1\|)$, or $o_p(\|\check{Y}_2\|)$, respectively. These errors occur in (17.9), (17.10), lines 10, -4, -2 and -1 on page 351, (17.17), and (17.18).
- In the equation before (17.19), $(Z_n - Y_n)$ immediately after the equal sign should be $(Z_n - Y_n)'$.
- In (17.19) and the equation before, $o_p(\|Y_n\|)$ and $o_p(\|\check{Y}\|)$ should be $o_p(\|Y_n\|^2)$ and $o_p(\|\check{Y}\|^2)$.
- On page 360, line 14, the first “1/4” should be 1/16.
- In Problem 6, λ and D are equivalent when $D > 0$ (or $\lambda > 1$).

Chapter 20

- In Problem 5, Q_θ^n should be Q_θ^k .

Appendix

- In A.4, page 437, h^{-1} should be h^{\leftarrow} on lines 9 and 10.

Solutions

- In B.10, Problem 4, $(c - X)$ should be $(c - X)^+$.
- In B.12, Problem 25a, “increasing” should be “nondecreasing”.