

Errata Sheet for HMC, 6th Edition

Current as of November 05

Bob and I would like to thank all of you that have sent the typos to us. Please continue to do so, (just e-mail joe@stat.wmich.edu or joemckean@yahoo.com).

1 Chapter 1

1. Page 11, line 3 in Section 1.3, unions.
2. Page 11, line -14, It should read, the statement that $C \dots$
3. Page 35, line 10, It should read, can be shown \dots
4. Page 35, line -6, It should read, Next, if $x \geq 1$,
5. Page 49, line 15, The middle equation is $\frac{d}{dy}e^{-y/2}$.
6. Page 53, line 2, \dots show that $Y \dots$
7. Page 60, line 12, Replace than with as
8. Page 62, line -11, It should read, \dots or $\sum_x x^m p(x)$,
9. Page 71, there are four occurrences of (a_1, a_1, \dots, a_n) , please replace with (a_1, a_2, \dots, a_n) .
10. Page 72, line -11, It should read, \dots are less than or equal to \dots
11. Page 76, line -14, Replace Each with Both

2 Chapter 2

1. Page 80, line 1, Delete the comma at the end of the line.
2. Page 81, line -11, Delete hyphen in moment-generating \dots
3. Page 83, line -4 and -5, Replace f with p .
4. Page 93, line -4, Delete comma at the end of the line.
5. Page 93, line -2, Delete comma at the end of the line.

6. Page 97, line –6, Replace name with namely.
7. Page 99, line 5, Replace Chapter 6 with Chapter 7.
8. Page 104, line –16, Capitalize y .
9. Page 108, line 13, At the end of the line add , with $k > 0$,
10. Page 109, line –8, It is Example 2.5.1.
11. Page 117, In expression (2.6.4), on the right-side, replace f with p .
12. Page 117, In expression (2.6.5), on the right-side, replace n with m .
13. Page 117, line 14, Replace $P(X_1 < b)$ with $P(X_1 \leq b)$.
14. Page 120, In Remark 2.6.1, these are pmfs not pdfs. So change the five occurrences of f with p .
15. Page 121, line –16, Replace the article a with an.
16. Page 121, line –10, The upper limit on all four sums is m not n .
17. Page 125, line 5, Place a comma after $h(x_1, \dots, x_n)$.
18. Page 125, line –3, Replace $g_2(y_2)$ with $g_3(y_3)$ and $0 < y_2 < 1$ with $0 < y_3 < 1$.
19. Page 125, line –2, The last factor on the right-side of equality should be $g_3(y_3)$ not $g_2(y_2)$.
20. Page 129, line 8, Put a comma after Y_1 .

3 Chapter 3

1. Page 146, In Example 3.2.3, the two occurrences of $\frac{1}{100}$ should be $\frac{1}{1000}$.
2. Page 167, line –6, Replace (3.4.12) with (3.4.12).
3. Page 186, line –6, Delete the prime on $(1/n, \dots, 1/n)$.

4 Chapter 4

1. Page 217, On this page in four places we used the old notation $M(t; n)$ instead of $M_{Y_n}(t)$.
2. Page 218, At this point, we not defined the order statistics yet, so
 - (a) In Exercise 4.3.2 say: Let Y_1 denote the minimum of a random ...
 - (b) In Exercise 4.3.3 say: Let Y_n denote the maximum of a random ...
 - (c) In Exercise 4.3.4 say: Let Y_2 denote the second smallest item of a random ...

3. Page 219, line $-2, -1$, Use $M_{Y_n}(t)$ instead of $M(t; n)$.
4. Page 220, line 16 and -2 , Replace \sum_1^n with $\sum_{i=1}^n$.
5. Page 220, line 18, Capitalize Central Limit Theorem.
6. Page 222, line -16 , It is Appendix C not B.

5 Chapter 5

1. Page 243, line 14, Delete extra space after Tukey.
2. Page 252, line 18, It is coverages not converages.
3. Page 272, In (a) of Exercise 5.5.13, Remove extra ;.
4. Page 286, In Exercise 5.7.9, x should be in math text as x .
5. Page 297, line 10, It is Section not Sections.
6. Page 304, line -14 , Change the article from an to a.
7. Page 306, In Exercise 5.9.2, (b), example should be Example 5.9.1.
8. Page 306, In Exercise 5.9.4, respectively not respectfully.

6 Chapter 6

1. Page 324, line 3, estimator not estimation.
2. Page 330, line 3, In Exercise 6.2.2, ln should be replaced by log.
3. Page 352, line 4, After the article the, add **likelihood ratio test (LRT)**.

7 Chapter 7

1. Page 390, line -14 , Remove extra (after first {.
2. Page 390, line -13 , It is capitol X .

8 Chapter 8

1. Page 430, line 10, Change the colons to semicolons in the L notation.
2. Page 455, line -6 , It should be α_a and β_a .
3. Page 460, line -11 , Change the period at the end of the line to a semicolon and then change accordingly to: see Section 9.7 for the definition of r .

9 Chapter 9

1. Page 479, line 6, It is Appendix C not B.

10 Chapter 10

1. Page 520, line -2, Should read ... function of the sign ...
2. Page 534, line 13, replace hence with thus and remove the comma.
3. Page 546, line -15, It should be Exercise 10.4.1.
4. Page 567, line -19, Replace see Exercise 10.7.3 with for $i \neq j$.
5. Pages 567 and 569, Replace the three occurrences of model (12.2.2) with model (10.7.1).
6. Page 569, line -2, Add such that at the end of the line.
7. Page 573, line -3, The outlier is the time in the 1968 Olympics.
8. Page 575, line -14, Replace Y_3 with Y_2 .

11 Chapter 11

1. Page 594, line -7, The third occurrence of θ should be θ_1 .
2. Page 599, line 4, Should read Jeffreys.
3. Page 609, line 11, Replace the exponent $x + 1$ with $x + 1 - 1$.
4. Page 609, line -15, Should read $g(y|x, \lambda)$.
5. Page 609, line -5, It is $n^* = 4000$.

12 Chapter 12

1. Page 627, line -12, Replace $d^2/dx dy$ with $\partial^2/\partial x \partial y$.

13 Table II of Distributions

1. Page 673, line 7, Use math type r .

14 Answers

1. Page 683, Answer to 1.3.24 (a) is $0 \leq p_1 + p_2 + p_3 \leq 1$.
2. Page 683, Answer to 1.4.20 is $\frac{1}{7}$.
3. Page 685, Answer to 2.3.1, the denominator of the second expression should be $2(6x_1 + 3)^2$.
4. Page 685, Answer to 2.3.2 (d) is $\frac{449}{1536}$.
5. Page 688, Answer to 5.4.11 is 6765.
6. Page 688, Answer to 6.3.15 (a) is $\left(\frac{1}{3\bar{x}}\right)^{n\bar{x}} \left(\frac{2}{3(1-\bar{x})}\right)^{n-n\bar{x}}$.
7. Page 689, Answer to 6.4.5, Replace y_1 with Y_1 .