

Textbook Errata

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Errata for the textbook “Statistical Theory for Data Analysis: an Introduction” will be posted here as they are received.

Please email Katherine at kbrum@umich.edu if you believe there is an error in the book and it will be added.

- p.75 Equation 6.37) The rightmost portion of the inequality containing \bar{X} a second time should not be there. The equation should read $\text{Prob}(\mu - \frac{1.96\sigma}{\sqrt{n}} < \bar{X} < \mu + \frac{1.96\sigma}{\sqrt{n}}) \approx 0.95$.
- p.199 Problem 13.2) In part a, the specifications of $\mu = 5$ and $\mu \neq 5$ for the null and alternative hypotheses should be $\mu = 15$ and $\mu \neq 15$.
- p. 230 Solution to problem 3.7c) The probabilities subbed into the denominators of the conditional probability formulas were accidentally flipped. Here is a corrected version:
$$\text{Prob}(L|O) = \frac{\text{Prob}(L \cap O)}{\text{Prob}(O)} = \frac{0.26}{0.6} = \frac{13}{30}. \text{ Prob}(O|L) = \frac{\text{Prob}(L \cap O)}{\text{Prob}(L)} = \frac{0.26}{0.3} = \frac{13}{15}.$$
Since $\text{Prob}(L|O) \neq \text{Prob}(L)$ (and similarly $\text{Prob}(O|L) \neq \text{Prob}(O)$), the two events are not independent.
- p. 232 Solution to problem 4.4) In the possible orders, THHHT is listed twice and THTHH is not listed.
- p. 242 Solution to problem 6.13b) One zero has been omitted under the square root sign, reading $\sqrt{0.0005}$ instead of $\sqrt{0.00005}$. The solution itself is correct.