

ERRATA

Advanced Sampling Theory with Applications How Michael Selected Amy

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CHAPTER 2

Page 89, line number 12 from the top: Replace $f(y) = \frac{1}{4\beta} \operatorname{sech}^2\{\frac{1}{2}(\frac{x-\alpha_*}{\beta_*})\}$ with $f(y) = \frac{1}{4\beta_*} \operatorname{sech}^2\{\frac{1}{2}(\frac{x-\alpha_*}{\beta_*})\}$

CHAPTER 3

Example 3.11.1, the assumption of normal distribution was taken due to its simplicity. Because the mean of the population under study is less than that of median, so any other distribution which is skewed to left could be used. Similar, problem is in Exercise 6.12.7.1.

CHAPTER 4

Page 89, line numbers 10 and 11 from the top: Replace (d) and (e) should be read as (c) and (d) respectively.

CHAPTER 5

Page 528, in practical 5.15 the numbering (h), (i), (j), (k), (o) and (p) should be read as (e), (f), (g), (h), (i), (j) and (k) respectively.

CHAPTER 11

Page 890, line number 11 from the bottom: Replace y_i follows Binomial distribution with y_i follows Bernoulli distribution.

Page 890, line number 10 from the bottom: Replace y_i follows Binomial (n, θ_w) with n_1 follows Binomial (n, θ_w)

Page 891, line number 5 from the top: Replace $\hat{\theta}_w$ follows $B(n, \theta_w)$ with n_1 follows $B(n, \theta_w)$

Page 891, Theorem 11.1.3. An unbiased estimator of $V(\hat{\pi}_w)$ is given by

$$\hat{v}(\hat{\pi}_w) = \frac{\hat{\theta}_w(1 - \hat{\theta}_w)}{(n - 1)(2P - 1)^2} \quad (11.1.6)$$

Page 892, line number 5 from the top:

$$\hat{v}(\hat{\pi}_w) = \frac{\hat{\theta}_w(1 - \hat{\theta}_w)}{(n - 1)(2P - 1)^2} = \frac{0.303(1 - 0.303)}{(20000 - 1)(2 * 0.7 - 1)^2} = 0.000066$$

Page 892, line number 8 from the top: Thus the 95 % confidence interval estimate of the true proportion will be: $[-0.0084, 0.0234]$ In the next line, the interpretation of the confidence interval estimate will change accordingly.

Page 897, line 2 from the bottom: Replace $\hat{\theta}$ follows $B(n, \theta)$ with n follows $B(n, \theta)$

Page 898, line 3 from the top: Replace $\hat{\theta}$ follows $B(n, \theta)$ with n follows $B(n, \theta)$

Page 898, line 3 and line 8 from the bottom: Replace $\hat{\theta}_i$ follows $B(n_i, \theta_i)$ with $n_i \hat{\theta}_i$ follows $B(n_i, \theta_i)$

Page 900, line 7 from the bottom: Replace $\hat{\theta}_3$ follows $B(n_1, \theta_3)$ with $n_1 \hat{\theta}_3$ follows $B(n_1, \theta_3)$ Replace $\hat{\pi}_y$ follows $B(n_2, \pi_y)$ with $n_2 \hat{\pi}_y$ follows $B(n_2, \pi_y)$

Page 934, line 3 and line 7 from the bottom: Replace $\hat{\lambda}_2$ follows $B(n, \lambda_2)$ with $n \hat{\lambda}_2$ follows $B(n, \lambda_2)$

Page 939, line 3 from the bottom: Replace $\hat{\lambda}_3$ follows $B(n, \lambda_3)$ with $n \hat{\lambda}_3$ follows $B(n, \lambda_3)$

Page 959, line 4 from the top: Replace $\hat{\theta}_1 = m/n$ follows an Inverse Binomial distribution with n follows an Inverse Binomial distribution.