

ERRATA

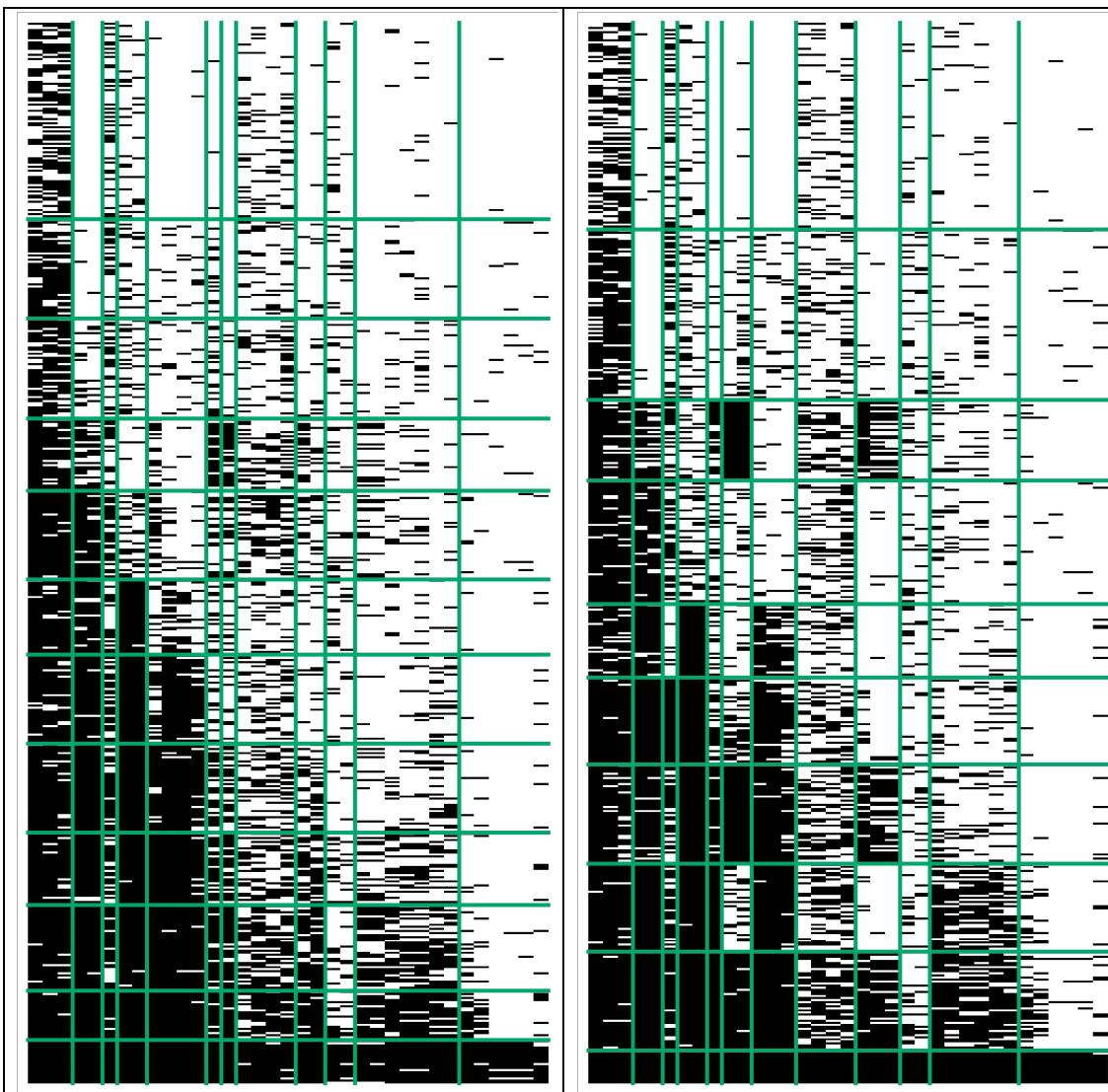
The following table lists the errors found in the book.

The author would like to express his deep appreciation to Dr. Koji Kosugi (Senshu University) for pointing out these errors.

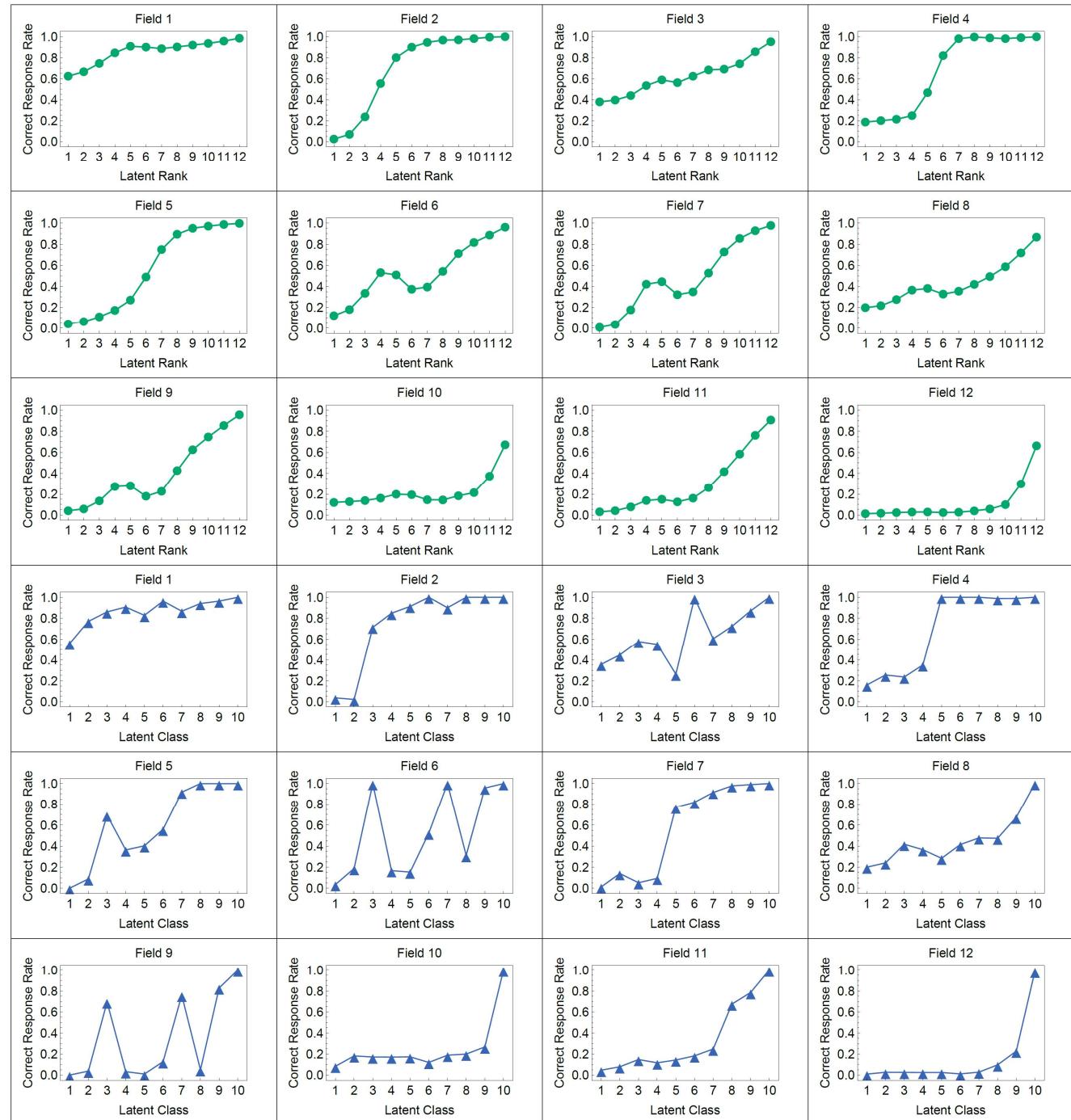
| Location | Error | Correction |
|----------------------|--|--|
| P20, Eq.(2.3) | $t_s^{(w)} = \mathbf{w}'(\mathbf{z}_j \odot \mathbf{u}_s) = \dots$ | $t_s^{(w)} = \mathbf{w}'(\mathbf{z}_s \odot \mathbf{u}_s) = \dots$ |
| P46, L4 | $\tau_k = 0.088$ | $\tau_k = -0.088$ |
| P49, Eq.(2.17) | 0.088 (five places) | -0.088 |
| P49, second equation | $ll(0.5; -0.518, 0.088) = -106.2$ | $ll(0.5; -0.518, -0.088) = -105.3$ |
| P49, third equation | $e^{-106.2} = 7.55 \times 10^{-47}$ | $e^{-105.3} = 1.84 \times 10^{-46}$ |
| P49, fourth equation | $ll(0.0; -0.518, 0.088) = -112.9$ | $ll(0.5; -0.518, -0.088) = -112.1$ |
| P49, fifth equation | $ll(0.5; -0.518, 0.088) > ll(0.0; -0.518, 0.088)$ | $ll(0.5; -0.518, -0.088) > ll(0.0; -0.518, -0.088)$ |
| P49, L18 | $ll(\rho; -0.518, 0.088)$ | $ll(\rho; -0.518, -0.088)$ |
| P133, box | $-\frac{d^2 \ln \text{pr}(c \beta_{c_1}, \beta_{c_2})}{dc^2} = \frac{\beta_{c_1} - 1}{c^2} + \frac{\beta_{c_2} - 1}{1 - c^2}$ $-\frac{d^2 \ln \text{pr}(d \beta_{d_1}, \beta_{d_2})}{dd^2} = \frac{\beta_{d_1} - 1}{d^2} + \frac{\beta_{d_2} - 1}{1 - d^2}$ | $-\frac{d^2 \ln \text{pr}(c \beta_{c_1}, \beta_{c_2})}{dc^2} = \frac{\beta_{c_1} - 1}{c^2} + \frac{\beta_{c_2} - 1}{(1 - c)^2}$ $-\frac{d^2 \ln \text{pr}(d \beta_{d_1}, \beta_{d_2})}{dd^2} = \frac{\beta_{d_1} - 1}{d^2} + \frac{\beta_{d_2} - 1}{(1 - d)^2}$ |
| P135, box | $-E\left[\frac{\partial^2 \text{ell}(\mathbf{u}_j \boldsymbol{\lambda})}{\partial d \partial a}\right] = -\sum_{q=1}^Q Z_{jq} \frac{(\theta_q - b)(P(\theta_q; \boldsymbol{\lambda}) - c)^2}{(d - c)P(\theta_q; \boldsymbol{\lambda})Q(\theta_q; \boldsymbol{\lambda})}$ | $-E\left[\frac{\partial^2 \text{ell}(\mathbf{u}_j \boldsymbol{\lambda})}{\partial d \partial a}\right] = \sum_{q=1}^Q Z_{jq} \frac{(\theta_q - b)(P(\theta_q; \boldsymbol{\lambda}) - c)^2 (d - P(\theta_q; \boldsymbol{\lambda}))}{(d - c)^2 P(\theta_q; \boldsymbol{\lambda})Q(\theta_q; \boldsymbol{\lambda})}$ |
| P136, upper box | $-E\left[\frac{\partial^2 \text{ell}(\mathbf{u}_j \boldsymbol{\lambda})}{\partial a^2}\right] = \sum_{q=1}^Q Z_{jq} \frac{(\theta_q - b)^2 (P(\theta_q; \boldsymbol{\lambda}) - c)^2 Q(\theta_q; \boldsymbol{\lambda})}{(1 - c)P(\theta_q; \boldsymbol{\lambda})}$ | $-E\left[\frac{\partial^2 \text{ell}(\mathbf{u}_j \boldsymbol{\lambda})}{\partial a^2}\right] = \sum_{q=1}^Q Z_{jq} \frac{(\theta_q - b)^2 (P(\theta_q; \boldsymbol{\lambda}) - c)^2 Q(\theta_q; \boldsymbol{\lambda})}{(1 - c)^2 P(\theta_q; \boldsymbol{\lambda})}$ |

| | | | | | | | | | | | | | | |
|-----------------------|--|---|---|----------------------|----|---|----|--|-------|---|---|---|----------------------|----|
| P140, box, 4th item | $(-\infty, \textcolor{red}{1}]$ | $(-\infty, \textcolor{red}{0}]$ | | | | | | | | | | | | |
| P205, third equation | $\kappa_t = \frac{(T-t)\kappa_1 + (t-1)\kappa_T}{R(T-1)}$ | $\kappa_t = \frac{(T-t)\kappa_1 + (t-1)\kappa_T}{T-1}$ | | | | | | | | | | | | |
| P267, second equation | $\Pi_B^{(0)} = \begin{bmatrix} 0.624 & 0.864 & 0.872 & 0.898 & 0.952 & 1.000 \\ 0.063 & 0.333 & 0.426 & 0.919 & 0.990 & 1.000 \\ 0.201 & 0.543 & 0.228 & 0.475 & 0.706 & 1.000 \\ 0.050 & 0.245 & 0.078 & 0.233 & 0.648 & 0.983 \\ -0.023 & 0.054 & 0.028 & 0.043 & 0.160 & 0.983 \end{bmatrix}$ | $\Pi_B^{(0)} = \begin{bmatrix} 0.455 & 0.545 & 0.636 & 0.727 & 0.818 & 0.909 \\ 0.364 & 0.455 & 0.545 & 0.636 & 0.727 & 0.818 \\ 0.273 & 0.364 & 0.455 & 0.545 & 0.636 & 0.727 \\ 0.182 & 0.273 & 0.364 & 0.455 & 0.545 & 0.636 \\ 0.091 & 0.182 & 0.273 & 0.364 & 0.455 & 0.545 \end{bmatrix}$ | | | | | | | | | | | | |
| P270, last equation | $pr(\Pi_B; \beta_0, \beta_1) = \prod_{f=1}^F \prod_{c=1}^C \frac{\pi_{fc}^{\beta_1-1} (1 - \pi_{fc})^{\beta_1-1}}{B(\beta_0, \beta_1)}$ | $pr(\Pi_B; \beta_0, \beta_1) = \prod_{f=1}^F \prod_{c=1}^C \frac{\pi_{fc}^{\beta_1-1} (1 - \pi_{fc})^{\beta_0-1}}{B(\beta_0, \beta_1)}$ | | | | | | | | | | | | |
| P 293, Table 7.3 | (the bottom row) <table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td>LFD*2</td> <td>3</td> <td>7</td> <td>4</td> <td>8</td> <td>12</td> </tr> </table> | LFD*2 | 3 | 7 | 4 | 8 | 12 | <table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td>LFD*2</td> <td>3</td> <td>7</td> <td>4</td> <td>$\textcolor{red}{9}$</td> <td>12</td> </tr> </table> | LFD*2 | 3 | 7 | 4 | $\textcolor{red}{9}$ | 12 |
| LFD*2 | 3 | 7 | 4 | 8 | 12 | | | | | | | | | |
| LFD*2 | 3 | 7 | 4 | $\textcolor{red}{9}$ | 12 | | | | | | | | | |
| P 294, Table 7.4 | (the bottom row) <table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td>LFD</td> <td>3</td> <td>7</td> <td>4</td> <td>7</td> <td>12</td> </tr> </table> | LFD | 3 | 7 | 4 | 7 | 12 | <table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td>LFD</td> <td>3</td> <td>7</td> <td>4</td> <td>$\textcolor{red}{9}$</td> <td>12</td> </tr> </table> | LFD | 3 | 7 | 4 | $\textcolor{red}{9}$ | 12 |
| LFD | 3 | 7 | 4 | 7 | 12 | | | | | | | | | |
| LFD | 3 | 7 | 4 | $\textcolor{red}{9}$ | 12 | | | | | | | | | |

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|----------------------|---|----------|----------|----------|---|----------|----------|----------|
| P 330, Table 7.11 | (the first row and second column) | | | | | | | |
| | $F \setminus R$ | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| | 5 | -5009.47 | -5031.88 | -5056.72 | -5071.52 | -5091.82 | -5109.94 | -5123.12 |
| | 6 | -5096.78 | -5074.30 | -5212.90 | -5212.45 | -5039.19 | -5045.53 | -5255.66 |
| | 7 | -5189.44 | -5208.74 | -5152.74 | -5163.36 | -5159.46 | -5169.96 | -5242.73 |
| | 8 | -5329.56 | -5354.64 | -5372.70 | -5391.83 | -5412.61 | -5433.39 | -5446.86 |
| | 9 | -5330.80 | -5354.18 | -5299.48 | -5323.41 | -5389.28 | -5410.32 | -5425.94 |
| | 10 | -5317.76 | -5336.72 | -5364.86 | -5438.38 | -5453.99 | -5462.63 | -5478.09 |
| | 11 | -5398.36 | -5396.98 | -5266.07 | -5359.73 | | | |
| | 12 | -5412.16 | -5504.37 | -5539.68 | -5557.33 | -5528.14 | | |
| | 13 | -5398.25 | -5489.55 | -5523.16 | -5522.75 | -5530.59 | | |
| | 14 | -5353.03 | -5440.79 | -5424.61 | -5520.25 | -5532.00 | | |
| | 15 | -5459.98 | -5441.67 | -5401.13 | -5417.41 | | | |
| P330, second par, L2 | …an R ranging from 12 to 18 | | | | …an R ranging from 11 to 17 | | | |
| P331, first par, L3 | L3: … when $(F, R) = (12, 14)$ and thus $BIC = -5557.33$. L4: … with $(F, R) = (12, 14)$, where… | | | | L3: … when $(F, R) = (12, 13)$ and thus $BIC = -5504.37$. L4: … with $(F, R) = (12, 13)$, where… | | | |
| P331, Fig. 7.24 | Ranklustering $(F, R) = (12, 11)$ | | | | Biclustering $(C, R) = (12, 10)$ | | | |



P333, Fig. 7.25



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|------------------|--------------|-------------------|----------|--------------------|---------|-----------------------|----------|
| P335, Table 7.12 | (upper part) | | | | | | |
| | | Field 1 | Field 2 | Field 3 | Field 4 | Field 5 | Field 6 |
| | | Item 01 | 1 | | | | 1 |
| | | Item 02 | | | 1 | | 4 |
| | | Item 03 | | | 1 | | 4 |
| | | Item 04 | | | | 1 | 5 |
| | | Item 05 | | | | 1 | 5 |
| | | Item 06 | | | | 1 | 5 |
| | | Item 07 | | | 1 | | 4 |
| | | Item 08 | | | 1 | | 4 |
| | | Item 09 | | | 1 | | 4 |
| P563, Table 11.7 | | χ^2 and df | | Standardized Index | | Information Criterion | |
| | | ll_B | -5891.31 | NFI | 1.000 | AIC | -2218.74 |
| | | ll_N | -9862.11 | RFI | 1.000 | CAIC | -6486.08 |
| | | ll_A | -5786.94 | IFI | 1.000 | BIC | -6484.13 |
| | | χ^2_N | 7941.60 | TLI | 1.000 | | |
| | | χ^2_A | -208.74 | CFI | 1.000 | | |
| | | df_N | 1155 | RMSEA | 0.000 | | |
| | | df_A | 1005 | | | | |
| P566, Table 11.9 | | χ^2 and df | | Standardized Index | | Information Criterion | |
| | | ll_B | 0.00 | NFI | 0.413 | AIC | -22216.1 |
| | | ll_N | -9862.11 | RFI | 0.408 | CAIC | -93954.1 |
| | | ll_A | -5786.94 | IFI | 1.000 | BIC | -93921.3 |
| | | χ^2_N | 19724.20 | TLI | 1.000 | | |
| | | χ^2_A | 11573.90 | CFI | 1.000 | | |
| | | df_N | 17045 | RMSEA | 0.000 | | |
| | | df_A | 16895 | | | | |

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|----------------------|--|--|
| P566, first equation | $\chi_A^2 = 2 \times \{0 - (-5776.14)\} = 11,552.28$ | $\chi_A^2 = 2 \times \{0 - (-5786.94)\} = 11,573.90$ |
|----------------------|--|--|

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