

SYSTEM RELIABILITY OPTIMIZATION WITH *k*-out-of-*n* SUBSYSTEMS ERRATA SHEET

David Coit and Jiachen Liu

International Journal of Reliability, Quality and Safety Engineering

Vol. 7, no. 2, June 2000, pp. 129-143.

Step 2 on page 135 and 136 should read:

Step 2: Compute,

$$\alpha_{ijp} = c_{ij} p \quad \text{for} \quad 1 \leq i \leq s, 1 \leq j \leq m_i, k_i \leq p \leq n_{\max,i}$$

$$\beta_{ijp} = w_{ij} p \quad \text{for} \quad 1 \leq i \leq s, 1 \leq j \leq m_i, k_i \leq p \leq n_{\max,i}$$

for $i \in A$,

$$\gamma_{ijp} = \begin{cases} -\lambda_{ij} k_i t, & p = k_i \\ \ln \left(\sum_{l=k_i}^p \binom{p}{l} (\exp(-\lambda_{ij} t))^l (1 - \exp(-\lambda_{ij} t))^{p-l} \right), & k_i < p \leq n_{\max,i} \end{cases}$$

for $i \in S$,

$$\gamma_{ijp} = \begin{cases} -\lambda_{ij} k_i t, & p = k_i \\ -\lambda_{ij} k_i t + \ln \left(\sum_{l=0}^{p-k_i} \frac{(\lambda_{ij} k_i t)^l}{l!} \right), & k_i < p \leq n_{\max,i} \end{cases}$$

for $i \in N$,

$$\gamma_{ijp} = -\lambda_{ij} k_i t, \quad p = k_i$$

$$n_{\max,i} = k_i$$