

NIST Special Publication 800-90B Errata

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The following list compiles known typographical and editorial errors identified in NIST SP 800-90B, along with corrections and attribution where available. Note that these proposed corrections are not official changes to the document but may be incorporated in a future errata update.

1. **Location:** Page 39, Line 8, Section 5.2.4

Original: the critical value at 0.001, which is 27.887.

Correction: the critical value at 0.001, which is 27.877.

Notes: Corrected numerical error in the critical value for the chi-squared test.

Reported by: Dr. Abel C. H. Chen (May 29, 2025)

2. **Location:** Page 42, Lines 2-3, Section 6.3.1

Original: with $p_u = 0.4 + 2.576 \cdot \sqrt{0.012} = 0.6895$. The min-entropy estimate is $-\log_2(0.6822) = 0.5363$.

Correction: with $p_u = 0.4 + 2.576 \cdot \sqrt{0.012} = 0.6822$. The min-entropy estimate is $-\log_2(0.6822) = 0.5518$.

Notes: Corrected numerical error in the computation of p_u and updated the corresponding min-entropy estimate.

Reported by: Dr. Abel C. H. Chen (May 28, 2025)