Errata for Blackjack Ace Prediction - UPDATE October 24, 2004

Page 24, Line 8: Although “Ace Tracking, count tracking and sequence tracking” …

Page 37, Line 13: “… positive probability …” In this case, until a card has at least a 1/52 probability of appearing in any given position, its probability can be termed “not positive” in the sense that it has no meaningful, real-world effect.

Page 38, Line 31: The probability of one-card packets becomes: 8/9 – 8/81 = 64/81 = 0.79.

Page 39, Line 1: three-card packets = 1/81 =0.01

Page 41, Line 15: Uncertainty equation:

\[ U = \sum_{i=1}^{52} (1) \log_2(1) = 0 \]

Page 63, Table 3-7: The total probability for “Stripping” (12/31) should be replaced with 12/51.

Page 73, Figure 4-4: The post-shuffle diagram on the right fails to show that the two “shuffle weaknesses” end up in the second deck from the top of the final stack (that is, in half-deck segments I and J).

Page 75, equation 4-6:

\[ E(X) = (+0.51 \times 0.10) + (-0.34 \times 0.10) + (-0.005 \times 0.80) \]
\[ = +0.051 - 0.034 - 0.004 \]
\[ = +0.0130 \]

Page 107, Line 1: Replace the words “the insect” with “it”

Page 114, Line 1: At this point we invoke Snyder’s rule of thumb—the player and the dealer share the Aces 50/50. In this case, that means the player and the dealer get three additional Aces each. The probability of the Ace “hitting the money” \( P(h) \) and the probability of the dealer getting the Ace by accident \( P(d) \) become 0.10 while \( P(m) \) is reduced from 0.87 to 0.80.

Page 114, Line 25: Assuming \( E_1 = +0.51, E_2 = -0.34, E_3 = -0.005, h = 0.10, d = 0.10, m = 0.88 \)

\[ E(X) = (+0.51 \times 0.13) + (-0.34 \times 0.07) + (-0.005 \times 0.80) \]
\[ = +0.0663 - 0.0238 - 0.004 \]
\[ = +0.0385 \]

Page 115, Line 10: Assuming \( E_1 = +0.51, E_2 = -0.34, E_3 = -0.005, h = 0.05, d = 0.07, m = 0.88 \)

\[ E(X) = (+0.51 \times 0.05) + (-0.34 \times 0.07) + (-0.005 \times 0.88) \]
\[ = +0.0255 - 0.0238 - 0.0044 \]
\[ = +0.00 \]

Page 117, Footnote: In calculating bet size in Chapter 8 it is assumed the dealer is prevented from getting the Ace.
