Errata list for *An Introduction to Decision Theory*

p. 26, last para, “G = 10 · H + 10 should be “H = 10 · G + 10”.
p. 27, line 5, the constant $m$ can be positive or negative.
p. 30, lines 7 and 8, $a_2$ should be deleted from all three sets.
p. 39, solution to 2.11, “(5)” should be “(4)” throughout.
p. 59, row 4 (continuity), last column (insufficient reason), “$*$” should be “$x$”.
p. 62, solution to 3.5, upper rightmost “1” in the rightmost column should be “0”.
p. 82, the equations before the last paragraph should be:

\[
\begin{align*}
\text{eu(G1) - eu(G2)} &= (30/90)M - (B/90)M = (30 - B)M/90 \\
\text{eu(G3) - eu(G4)} &= ((30 + 60 - B)/90)M - (60/90)M = (30 - B)M/90
\end{align*}
\]

p. 90, exercise 4.3, if the price of the game is x, then $u(x) = 1.27657 \cdot 10^{-5}$, $\ln(x + 1) = 1.27657 \cdot 10^{-5}$, $e^{1.27657 \cdot 10^{-5}} = x + 1$, so $x = 1,000013 - 1$.
p. 104, end of step 1, $u(Saab)$ should be 0.2, not 0.8.
p. 115, the solution to 5.6, line 2 should read “…$x > y$ implies that $x > z$ or $z > y$. The second possibility, $z > y$, is inconsistent with what we initially supposed”; in the solution to 5.7 all that can be concluded is that $0.9B + 0.1C = 0.6B + 0.4D$.
p. 128, the line between “0.9987” and “0.0113”, the word “biased” should be “not biased”.
p. 132, in the solution to exercise 6.6, part a, delete “1/6 x 1/6” (the answer, 6/36, is still correct), the solution to exercise 6.7 is $10/37 \approx 0.27$, and in the solution to exercise 6.8 “0.53” should be “0.552”.
Finally, the solution to 6.13 is $1 - (365/((365-\nu)! \cdot 365^{\nu}))$.
p. 150, the formulation of SAV 4 is the one given on the cover of Savage’s book, but the proof requires the formulation given on p. 31 in Savage (1972).np. 157 line 8, “$p(x) > 0$” should be “$p(x) < 0$”; line 18, “$p(x or not-x) > 1$” should be “$p(x or not-x) < 1$”; line 24, “$y$” should be “$x$”.
p. 168, proof of Theorem 8.1, the third line, should be “between x and y at…”.
p. 179, line 5, “$xpy$” should be “$xpz$”.
p. 186, line 2, $x^{\wedge} - 3/2$ divided by $x^{\wedge} - 1/2$ is $x^{\wedge} - 1$, not $x^{\wedge} - 3$. Line 4: $x^{\wedge} - 5/3$. divided by $x^{\wedge} - 2/3$ is $x^{\wedge} - 1$, not $x^{\wedge} - 10$.
p. 189, the expected utility for taking boxes 1 and 2 is $11,000$, not $10,000$ (because “$u(0)$” should be “$u(1000)$”)
p. 198, exercise 9.5 b. The last “X” should be “not X”.
p. 262, solution to 12.8, (R2, C1) is also a Nash equilibrium.
p. 267, lines 2-3, “Q were to prefer f to e” should be “Q were to prefer b to a”.
p. 282, exercise 13.1, line 2, delete “or f”.
p. 284, exercise 13.5(b) The answer is correct, but the word “No” should be deleted.
p. 286, line 12, C and D have been reversed in the definition of the lotteries.
p. 308, Herodotus (1954), “Penquin” should be “Penguin”.

I would like to thank several readers for helping me to identify these errors -- in particular Ben Eggleston, Johan E. Gustafsson, Karsten Klint Jensen, and Manel Pau

/Martin Peterson (August 30, 2011)