# 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 “×” .
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:

- eu(G1) − eu(G2) = (30/90)M − (B/90)M = (30 − B)M/90
- eu(G3) − eu(G4) = ((30 + 60 − B)/90)M − (60/90)M = (30 − B)M/90

p. 90, exercise 4.3, if the price of the game is x, then u(x) = $1{,}27657\cdot 10^{-5}$, ln(x +1) = $1{,}27657\cdot 10^{-5}$, $e^{1{,}27657\cdot 10\text{-}5}$ = 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 ≈ 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-n)!·$365^n$)).
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).
p. 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^–3/2 divided by x^–1/2 is *x*^–1, not *x*^–3. Line 4: x^–5/3.
divided by x^–2/3 is *x*^–1, not *x*^–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, “O 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”.

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/Martin Peterson (August 30, 2011)