

Errata list for *An Introduction to Decision Theory*

- p. 26, last para, “ $G = 10 \cdot H + 10$ ” should be “ $H = 10 \cdot G + 10$ ”.
- 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), “ \otimes ” should be “ \times ”.
- 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 $u(x) = 1,27657 \cdot 10^{-5}$, $\ln(x + 1) = 1,27657 \cdot 10^{-5}$, $e^{1,27657 \cdot 10^{-5}} = x + 1$, so $x = 1,000013 - 1$.
- p. 104, end of step 1, $u(\text{Saab})$ 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 “ $1/6 \times 1/6$ ” (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 $1 - (365! / ((365 - n)! \cdot 365^n))$.
- 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, “ $p(x \text{ or not-}x) > 1$ ” should be “ $p(x \text{ or not-}x) < 1$ ”; 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)