

## Corrections to the Olofsson's text

Also see <http://www.peterolofsson.com/Corrections.html>

**p 66, problem 3b:** incorrect answer in the back, should be  $A^c \cap B^c \cap C^c$ .

**p 67, problem 13a:** incorrect answer in the back, "0.2" should be replaced by 0.25.

**p 67, problem 16:** Change the second sentence to "It must consist of five lower case letters followed by two digits."

**p 68, problem 21c:** Should be

$$\sum_{k=0}^n \binom{n}{k}^2 = \binom{2n}{n}$$

**p 69, problem 38:** assumes equally likely outcomes

**page 70, Problem 44(d):** The answer should be 0.9625

**p 72, line -4:**  $2/3$  should be  $1/2$

**p 73, problem 77(b):** poorly formulated. If "everything else being the same" means that Monty opens all doors except one, and that this last door contains the opposite of yours, the answer is correct.

**p 73, problem 78, line 2:** change "not who" to "do not know who"

**p 73, problem 79:** Solution on page 472 is incorrect. Should be **(a)**  $1/3$ , **(b)**  $1/2$ .

**p 149, Problem 12c:** incorrect answer in the back,  $f_Y(x) = 6x^5$ ,  $0 \leq x \leq 1$ .

**p 154, problem 68:** incorrect answer in the back, should be  $1/4$ .

p 211, lines 3 and -4: indexes "1" and "2" should be "X" and "Y"

page 257, Problem 47: The answer should be  $4/9$

page 284, Problem 2: The hint is not directly relevant, as  $X_n$  and  $Y_n$  may have different distributions.

p 320, line 13: missing "z" in definition of margin of error

page 364, line -7: The sum should be a product.

p 364, line -4: exponent should have a minus sign

p 472, problem 33: The counter-example is incorrect.

p 476, problem 78: should be  $2/((1-p)^2 + p^2)$

p.476, problem 79: should be  $(2-p)/(1-p(1-p))$

p.479, problem 66: reads 0.23, should read 0.21 (twice)