

Errors in the Reader “Probability Theory for Engineers” (no. 642)- version April 2017

Page/position	What is stated	What it should be
1-4, prop. 1.1.14a	$(B \cap C) = (A \cup B) \cap (A \cup C)$.	$A \cup (B \cap C) = (A \cup B) \cap (A \cup C)$.
1-9, last part	...a finite number of different...	...an infinite number of different...
2-10, exc. 1.c	(note that ...)	Cancel this note
3-5, Example 3.2.4	Note that G and \overline{G}	Note that F and \overline{F}
3.7 Example 3.3.5	$A = \{KK, KM\}$, $B = \{KK, MK\}$ and $C = \{KK, MM\}$	$A = \{HH, HT\}$, $B = \{HH, TH\}$ and $C = \{HH, TT\}$
3-8 Definition 3.37	$P(A_{i1}A_{i2} \dots A_{ik}) \stackrel{\text{ind.}}{=} (A_{i1}) \dots$	$P(A_{i1}A_{i2} \dots A_{ik}) \stackrel{\text{ind.}}{=} P(A_{i1}) \dots$
3-11, exercise 3.a	(0.98, 0.097 ,..	(0.98, 0.97,..
3-12 exercise 7	(assume that this the answer ...	(assume that this answer...
4-2, example 4.2.1	K should be H and M should be T $\{X = 1\} = \{KMM, MKM, MMK\}$	$\{X = 1\} = \{HHT, HTH, THH\}$
4-10, ex. 4.4.7 table	$\left(\frac{1}{3}\right)^2 \cdot \frac{25}{36}$	$\left(-\frac{1}{3}\right)^2 \cdot \frac{25}{36}$ or $\left(0 - \frac{1}{3}\right)^2 \cdot \frac{25}{36}$
4-17, half way	$(X) = 8 \cdot \frac{15}{20} = 6$	$E(X) = 8 \cdot \frac{15}{20} = 6$
4-20, below 4.5.9	“large n and small p ” (p close to 1)	“large n and large p ” (p close to 1),
5-2, half way	$\dots \neq P(X = 0) \cdot P(Y = 0) = \frac{25}{36}$	$\dots \neq P(X = 0) \cdot P(Y = 0) = \frac{25}{36} \cdot \frac{9}{36}$
6-14	(see the Tab- 1 page...	(see the Tab- 6 page...
6-18, start 6.5	... so $E(X) = 180$ so $E(X) = 183$
7-5, Example in stock is enough for in stock is insufficient for ...
A4, exc. 5.3 b	$var(Y) = 0.7281$	$var(Y) = 0.7275$
A7. Exc. 6.5	(add solution)	c. $f_Y(y) = \frac{3}{2} e^{-\frac{3}{2}y}$ ($y \geq 0$) and $f_Z(z) = \frac{3}{2\sqrt{z}} e^{-3\sqrt{z}}$, for $z > 0$.