

Life Contingencies: A Logical Approach to Actuarial Mathematics

ERRATA

Page

3 Fifth line from bottom

$n/2$ should be $1/2$

36 Exercise 4-19, Line 5

Replace ${}^2\overline{A}_x = .35$ with ${}^2\overline{A}_x = .4$.

47 Solution to Exercise 4-19

Line 6: Replace $25[.25 - .16] = 2.25$ with $25[.30 - .16] = 3.5$

Line 8: Replace $6 + 2.25 - 8 = .25$ with $6 + 3.50 - 8 = \underline{1.50}$

71 Solution to Exercise 5-3

Replace lines 6 - 9 with

$$\ddot{a}_{\overline{50:\overline{20}|}} = \ddot{a}_{\overline{20}|} + {}_{20}E_{50}\ddot{a}_{70} = 12.1581 + (.23047)(8.5693) = 14.133$$

$$\ddot{a}_{\overline{t}|} > 14.133 \Rightarrow t > 27.62$$

\therefore Jones must receive at least 28 payments.

$$\therefore {}_{27}p_{50} = \underline{.539}.$$

164 Supplementary Concept 4, Line 3

Replace "at least one" with "exactly one".

168 Exercise 9-4

Line 1: Replace "two-life" with "joint-life".

183 Solution to Exercise 9-29

Line 2: Replace denominator with $\frac{1}{2}\overline{a}_x + \frac{1}{2}\overline{a}_y$.

Line 6: Replace denominator with $\frac{1}{2}\left(\frac{1}{.06} + \frac{1}{.08}\right)$.

Line 6: Replace 73.04 with 400.

196 Exercise 10-11

Line 3: Remove "and $x < 60$,"

196 Exercise 10-14

Remove the entire final column from the box.

208 Solution to Exercise 10-14

Insert after Line 3:

$$\text{Using } q_x^{(1)} = q_x^{(1)}(1 - \frac{1}{2}q_x^{(2)}) = .08$$

and

$$q_x^{(2)} = q_x^{(2)}(1 - \frac{1}{2}q_x^{(1)}) = .02$$

and solving, we obtain

$$q_x^{(1)} = .0808425$$

and

$$q_x^{(2)} = .0208425$$

$$\therefore \mu_{50}^{(1)}(\frac{1}{4}) = \frac{.0808425}{1 - \frac{1}{4}(.0808425)} = \underline{\underline{.08251}}$$

(Delete the original final line.)

223 Fifth line from bottom

Replace 218.00 with 218.40.

270 Problem 9

Line 4: " $x \geq$ " should be " $x \geq 0$ "