Errors are listed by slide number. Please note these on your hard copies.

Slide 42

There is an error in the last term. Bayes' Theorem should read:

$$P(A_i|E) = \frac{P(E \cap A_i)}{P(E)}$$

$$= \frac{P(A_i) \cdot P(E|A_i)}{P(A_1) \cdot P(E|A_1) + P(A_2) \cdot P(E|A_2) + \ldots + P(A_n) \cdot P(E|A_n)}$$

Slide 46

Insert "is" before the second to last word on the slide. The last line should read:

*What is the conditional probability that a male has a circulation problem, given that he **is** a smoker?*

Slide 54

There is an error in the equation for σ^2. It should read:

$$\sigma^2 = V(X) = E(X^2) - \mu^2 = 3500 - 55^2 = 475$$

Slide 67

The last term in the sequence should have an exponent of 3: $p_0 \left(\frac{1}{5}\right)^3$.

Slide 81

First bulleted item: $k = 0, 1, 2, 3 \ldots$

Slide 91

Solution should read $5(.05)^2 (.95)^4 \approx .0102$

Slide 104

The first paragraph needs the word "first" inserted before "claim from a bad driver" and the word "means" inserted before "6 years":

*The waiting time for the first claim from a good driver and the waiting time for the **first** claim from a bad driver are independent and follow exponential distributions with **means** 6 years and 3 years, respectively.*

Slide 110

The correct answer is C.

Slide 118

The second line should read: $P(600 \le X \le 650)$ [not $P(600 \le X \le 750)$]

Slide 122

There are two errors. The last two lines should read:

$= .9772 - .1587$

$= .8185$

Slide 138

There should be a capital "X" in $E\big[g(X)\big]$:

$$E\big[g(X)\big] = \int_{-\infty}^{\infty} g(x)\,f(x)\,dx$$

Slide 175

The product Y has been misstated. The solution should read:

Since each X_i can be only 0 or 1, the product $Y = X_1\,X_2\,X_3$ can be only 0 or 1 ...

Slide 177

The very last term on the slide should have an exponent of -6:

$= 125,000,000\,(1 - 2500t)^{-6}$

Slide 219

The last term should read:

$$V(Y \mid X = 1) = .7143 - (.7143)^2 = .204$$

Slide 222

There is an extra negative sign in the second-to-last term of $f_x(2)$. It should properly read:

$$f_x(2) = \ldots = \left.\frac{-y^{-2}}{4}\right|_1^{\infty} = \frac{1}{4}$$