

This is the first set of corrections for the *INSTRUCTOR'S SOLUTIONS MANUAL* for the sixth edition of *Probability and Statistical Inference*.

- Page 27, **3.1-8** (a) The space of  $W$  is  $S = \{0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11\}$ .
- Page 34, **3.4-2**, Delete the part (b) answer and reletter (c) - (g) as (b) - (f).
- Page 54, **4.5-10**: Since the p.d.f. is  $f(x) = 1/4$ ,  $-1 < x < 3$ , the p.d.f. of  $Y = X^2$  is

$$g(y) = \begin{cases} \frac{1}{4} \cdot \left| \frac{-1}{2\sqrt{y}} \right| + \frac{1}{4} \cdot \left| \frac{1}{2\sqrt{y}} \right| = \frac{1}{4\sqrt{y}} & 0 < y < 1, \\ \frac{1}{4} \cdot \left| \frac{1}{2\sqrt{y}} \right| = \frac{1}{8\sqrt{y}} & 1 \leq y < 9. \end{cases}$$

- Page 79, **6.5-16** (c) should be

$$P(70.5 < Y < 86.5) \approx \Phi(0.30) - \Phi(-1.61) = 0.6179 - 0.0537 = 0.5642.$$