

Mathematical Statistics And Data Analysis 3rd Edition

Chapter 9 Testing Hypotheses and Assessing Goodness of Fit

1. A coin is thrown independently 10 times to test the hypothesis that the probability of heads is $\frac{1}{2}$ versus the alternative that the probability is not $\frac{1}{2}$. The test rejects if either 0 or 10 heads are observed.
- What is the significance level of the test?
 - If in fact the probability of heads is .1, what is the power of the test?

Step 1 of 3

Given: $H_0: p = \frac{1}{2}$
 $H_a: p \neq \frac{1}{2}$

And p = probability of occurring head

Rejection region W = {either 0 head or 10 head occur}

If X is the no. of heads then

$$W = \{X: \text{either } X = 0 \text{ or } X = 10\}$$

Step 2 of 3

(a) So significance level of test

$$\begin{aligned}\alpha &= P[\text{reject } H_0 | H_0 \text{ is true}] \\ &= P[X = 0 | p = \frac{1}{2}] + P[X = 10 | p = \frac{1}{2}] \\ &= \binom{10}{0} p^0 (1-p)^{10-0} + \binom{10}{10} p^{10} (1-p)^{10-10} \quad p = \frac{1}{2} \\ &= \binom{10}{0} \left(\frac{1}{2}\right)^0 \left(1 - \frac{1}{2}\right)^{10-0} + \binom{10}{10} \left(\frac{1}{2}\right)^{10} \left(1 - \frac{1}{2}\right)^{10-10} \\ &= \left(\frac{1}{2}\right)^{10} + \left(\frac{1}{2}\right)^{10} \\ &= 2 \left(\frac{1}{2}\right)^{10} \\ &= \frac{1}{2^9} \\ &= \boxed{0.00195}\end{aligned}$$

Mathematical Statistics And Data Analysis 3rd Edition Solutions

A Loxley



Mathematical Statistics And Data Analysis 3rd Edition Solutions :

The Top Books of the Year Mathematical Statistics And Data Analysis 3rd Edition Solutions The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the captivating narratives that have enthralled audiences this year.

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The novel begins with Richard Papan, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts.

The Secret History is a masterful and suspenseful novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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