

# Mathematical Statistics And Data Analysis 3<sup>rd</sup> 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  $W = \{\text{either 0 head or 10 head occur}\}$

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

**L Cohen**



## **Mathematical Statistics And Data Analysis 3rd Edition Solutions :**

Student Solutions Manual for Rice's Mathematical Statistics and Data Analysis, 3rd Rice, 2006-02 Probability and Statistics by Example Yu. M. Suhov, Mark Kelbert, 2014-09-22 A valuable resource for students and teachers alike this second edition contains more than 200 worked examples and exam questions Probability and Statistics by Example: Volume 1, Basic Probability and Statistics Yuri Suhov, Mark Kelbert, 2014-09-22 Probability and statistics are as much about intuition and problem solving as they are about theorem proving Consequently students can find it very difficult to make a successful transition from lectures to examinations to practice because the problems involved can vary so much in nature Since the subject is critical in so many applications from insurance to telecommunications to bioinformatics the authors have collected more than 200 worked examples and examination questions with complete solutions to help students develop a deep understanding of the subject rather than a superficial knowledge of sophisticated theories With amusing stories and historical asides sprinkled throughout this enjoyable book will leave students better equipped to solve problems in practice and under exam conditions *Answer Book for Mathematical Statistics and Data Analysis, 2nd Edition* John A. Rice, 1995

*Optimization in Industrial Engineering* Erik Cuevas, Julio Cesar Rosas Caro, Avelina Alejo Reyes, Paulina González Ayala, Alma Rodriguez, 2025-01-15 This textbook provides readers with a comprehensive exploration of optimization techniques in industrial engineering with a specific focus on the Economic Order Quantity EOQ problem It strikes a unique balance by thoroughly discussing the underlying concepts and theories equipping the reader with the knowledge needed to develop their own programs for solving complex optimization problems in the field A distinctive feature of this book is its extensive use of MATLAB implementations which serves as a practical tool to bridge the gap between theory and real world application The book is structured with the understanding that learning is accelerated when theoretical concepts are complemented by practical code based problem solving examples This approach is particularly beneficial for students who may have a weaker background in mathematics as it demonstrates the practicality and effectiveness of optimization in a more accessible manner The inclusion of ready made code examples not only makes the subject matter more engaging for students but also encourages them to experiment modify and enhance the code with their own ideas This method of learning is designed to be less daunting and more stimulating particularly for those who might feel overwhelmed by the prospect of developing complex programs from scratch The book's approach is aimed at demystifying the complexities of optimization in industrial engineering making it more approachable and interesting for students and practitioners alike Diverging from other texts that primarily focus on classical techniques for addressing optimization problems in industrial engineering this book sets itself apart by delving into modern metaheuristic methods Metaheuristic techniques have gained recognition for their efficacy in tackling complex problems that are often laden with diverse and challenging constraints These methods which include algorithms such as simulated annealing and particleswarm optimization offer a more dynamic and flexible approach

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John E. Freund,Benjamin M. Perles,2004 Incorporating graphing calculator boxes and featuring more extensive use of Minitab output this is the eighth edition of Freund and Perles straightforward introduction to statistics *The American Mathematical Monthly* ,1991 **Advanced Engineering Mathematics, International Adaptation** Erwin

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