

# 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 Solutions

**Hugh Herbert Wolfenden**



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

**Student Solutions Manual for Rice's Mathematical Statistics and Data Analysis, 3rd** Rice, 2006-02 *Sports Research with Analytical Solution using SPSS* J. P. Verma, 2016-03-31 A step by step approach to problem solving techniques using SPSS in the fields of sports science and physical education Featuring a clear and accessible approach to the methods processes and statistical techniques used in sports science and physical education *Sports Research with Analytical Solution using SPSS* emphasizes how to conduct and interpret a range of statistical analysis using SPSS The book also addresses issues faced by research scholars in these fields by providing analytical solutions to various research problems without reliance on mathematical rigor Logically arranged to cover both fundamental and advanced concepts the book presents standard univariate and complex multivariate statistical techniques used in sports research such as multiple regression analysis discriminant analysis cluster analysis and factor analysis The author focuses on the treatment of various parametric and nonparametric statistical tests which are shown through the techniques and interpretations of the SPSS outputs that are generated for each analysis *Sports Research with Analytical Solution using SPSS* also features Numerous examples and case studies to provide readers with practical applications of the analytical concepts and techniques Plentiful screen shots throughout to help demonstrate the implementation of SPSS outputs Illustrative studies with simulated realistic data to clarify the analytical techniques covered End of chapter short answer questions multiple choice questions assignments and practice exercises to help build a better understanding of the presented concepts A companion website with associated SPSS data files and PowerPoint presentations for each chapter *Sports Research with Analytical Solution using SPSS* is an excellent textbook for upper undergraduate graduate and PhD level courses in research methods kinesiology sports science medicine nutrition health education and physical education The book is also an ideal reference for researchers and professionals in the fields of sports research sports science physical education and social sciences as well as anyone interested in learning SPSS

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

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**The Fundamental Principles of Mathematical Statistics** Hugh Herbert Wolfenden,1942 **Subject Catalog** Library of Congress,

**University of Michigan Official Publication** University of Michigan,1988 Each number is the catalogue of a specific school or college of the University **Journal of the American Statistical Association** ,2007 A scientific and educational journal not only for professional statisticians but also for economists business executives research directors government officials university professors and others who are seriously interested in the application of statistical methods to practical problems in the development of more useful methods and in the improvement of basic statistical data **Catalog** University of Colorado Boulder,2000 *F. Y. Edgeworth's Contributions to Mathematical Statistics* Arthur Lyon Bowley,1928

**Mathematical Statistics and Data Analysis** John A. Rice,1988 **Subject Catalog, 1978** Library of Congress,1978 **Proceedings of a Harvard Symposium on Digital Computers and Their Applications, 3-6 April 1961** ,1962 *American Book Publishing Record* ,2003 *Which Degree Guide* ,2001 **Columbia University Bulletin** Columbia University,1975-08 **Library of Congress Catalogs** Library of Congress,1980 **'American Book Publishing Record' Cumulative** R. R. Bowker LLC,1978 **American Book Publishing Record Cumulative, 1950-1977** R.R. Bowker Company. Department of Bibliography,1978 **General Theory of Information Transfer and Combinatorics** Rudolf Ahlswede,2006-12-14 This book collects 63 revised full papers contributed to a research project on the General Theory of Information Transfer and Combinatorics that was hosted from 2001 2004 at the Center for Interdisciplinary Research ZIF of

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