

Basic Statistics Formulas

Population Measures

$$\text{Mean } \mu = \frac{1}{n} \sum x_i \quad (1)$$

$$\text{Variance } \sigma^2 = \frac{1}{n} \sum (x_i - \bar{x})^2 \quad (2)$$

$$\text{Standard Deviation } \sigma = \sqrt{\frac{1}{n} \sum (x_i - \bar{x})^2} \quad (3)$$

Sampling

$$\text{Sample mean } \bar{x} = \frac{1}{n} \sum x_i \quad (4)$$

$$\text{Sample variance } s^2 = \frac{1}{n-1} \sum (x_i - \bar{x})^2 \quad (5)$$

$$\text{Std. Deviation } s = \sqrt{\frac{1}{n-1} \sum (x_i - \bar{x})^2} \quad (6)$$

$$z\text{-score } z = \frac{\bar{x} - \mu}{\sigma} \quad (7)$$

$$\text{Correlation } r =$$

$$\frac{1}{n-1} \sum_{i=1}^n \left(\frac{(x_i - \bar{x})}{s_x} \right) \left(\frac{(y_i - \bar{y})}{s_y} \right) \quad (8)$$

Linear Regression

$$\text{Line } \hat{y} = a + bx \quad (9)$$

$$b = r \frac{s_y}{s_x}, a = \bar{y} - b\bar{x} \quad (10)$$

$$s = \sqrt{\frac{1}{n-2} \sum_{i=1}^n (y_i - \hat{y})^2} \quad (11)$$

$$SE_b = \frac{s}{\sqrt{\sum_{i=1}^n (x_i - \bar{x})^2}} \quad (12)$$

$$\text{To test } H_0: b = 0, \text{ use } t = \frac{b}{SE_b} \quad (13)$$

$$CI = b \pm t^* SE_b \quad (14)$$

Probability

$$P(A \text{ or } B) = P(A) + P(B) - P(A \text{ and } B) \quad (15)$$

$$P(\text{not } A) = 1 - P(A) \quad (16)$$

$$P(A \text{ and } B) = P(A)P(B) \text{ (independent)} \quad (17)$$

$$P(B|A) = P(A \text{ and } B)/P(A) \quad (18)$$

$$0! = 1; n! = 1 \times 2 \times 3 \cdots \times (n-1) \times n \quad (19)$$

$$\binom{n}{k} = \frac{n!}{k!(n-k)!} \quad (20)$$

Binomial Distribution :

$$P(X = k) = \binom{n}{k} p^k (1-p)^{n-k} \quad (21)$$

$$\mu = np, \sigma = \sqrt{np(1-p)} \quad (22)$$

One-Sample z-statistic

$$\text{To test } H_0: \mu = \mu_0 \text{ use } z = \frac{\bar{x} - \mu_0}{\sigma/\sqrt{n}} \quad (23)$$

$$\text{Confidence Interval for } \mu = \bar{x} \pm z^* \frac{\sigma}{\sqrt{n}} \quad (24)$$

$$\text{Margin of Error } ME = z^* \frac{\sigma}{\sqrt{n}} \quad (25)$$

$$\text{Minimum sample size } n \geq \left[\frac{z^* \sigma}{ME} \right]^2 \quad (26)$$

One-Sample t-statistic

$$SEM = \frac{s_y}{\sqrt{n}}, t = \frac{\bar{x} - \mu}{s_y/\sqrt{n}} \quad (27)$$

$$\text{Confidence Interval} = \bar{x} \pm t^* \frac{s_y}{\sqrt{n}} \quad (28)$$

Two-Sample t-statistic

$$t = \frac{\bar{x}_1 - \bar{x}_2}{\sqrt{\frac{s_1^2}{n_1} + \frac{s_2^2}{n_2}}} \quad (29)$$

$$\text{Conf. Interval} = (\bar{x}_1 - \bar{x}_2) \pm t^* \sqrt{\frac{s_1^2}{n_1} + \frac{s_2^2}{n_2}} \quad (30)$$

Sample Proportions

$$\mu_p = p, \sigma_p = \sqrt{\frac{p(1-p)}{n}} \quad (31)$$

$$\text{Conf. Int.} = \hat{p} \pm z^*(SE) \quad (32)$$

$$SE = \sqrt{\frac{\hat{p}(1-\hat{p})}{n}} \quad (33)$$

$$\text{sample size } n \geq \left[\frac{z^*}{ME} \right]^2 p^*(1-p^*) \quad (34)$$

$$\text{To test } H_0: p = p_0, \text{ use } z = \frac{\hat{p} - p_0}{\sqrt{\frac{p_0(1-p_0)}{n}}} \quad (35)$$

Two-Sample Proportions

$$SE = \sqrt{\frac{\hat{p}_1(1-\hat{p}_1)}{n_1} + \frac{\hat{p}_2(1-\hat{p}_2)}{n_2}} \quad (36)$$

$$CI = (\hat{p}_1 - \hat{p}_2) \pm z^*(SE) \quad (37)$$

$$\text{To test } H_0: p_1 = p_2, \text{ use} \quad (38)$$

$$z = \frac{\hat{p}_1 - \hat{p}_2}{\sqrt{\hat{p}(1-\hat{p}) \left(\frac{1}{n_1} + \frac{1}{n_2} \right)}} \quad (39)$$

$$\hat{p} = \frac{X_1 + X_2}{n_1 + n_2}, X_i = \text{successes} \quad (40)$$

Chi-Square Statistic

$$\chi^2 = \sum_{i=1}^n \frac{(o_i - e_i)^2}{e_i} \quad (41)$$

o_i = observed, e_i = expected

Central Limit Theorem

$$\sigma_{\bar{x}} \rightarrow \frac{\sigma}{\sqrt{n}} \text{ as } n \rightarrow \infty \quad (42)$$

Statistical Mathematics

Ke. Dī Jhā



Statistical Mathematics:

Physical Chemistry: Statistical Mathematics Ke. Dī Jhā, 2009 Mathematical Statistics Johann Pfanzagl, 2017-10-23 This book presents a detailed description of the development of statistical theory In the mid twentieth century the development of mathematical statistics underwent an enduring change due to the advent of more refined mathematical tools New concepts like sufficiency superefficiency adaptivity etc motivated scholars to reflect upon the interpretation of mathematical concepts in terms of their real world relevance Questions concerning the optimality of estimators for instance had remained unanswered for decades because a meaningful concept of optimality based on the regularity of the estimators the representation of their limit distribution and assertions about their concentration by means of Anderson s Theorem was not yet available The rapidly developing asymptotic theory provided approximate answers to questions for which non asymptotic theory had found no satisfying solutions In four engaging essays this book presents a detailed description of how the use of mathematical methods stimulated the development of a statistical theory Primarily focused on methodology questionable proofs and neglected questions of priority the book offers an intriguing resource for researchers in theoretical statistics and can also serve as a textbook for advanced courses in statisticc **Mathematical Methods of Statistics** Harald

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Aitken, 1945 **Introduction to Mathematical Statistics** Paul G. Hoel, 1984-01-31 A balanced presentation of both theoretical and applied material with numerous problem sets to illustrate important concepts Demonstrates the use of computers and calculators to facilitate problem solving as well as numerous applications to illustrate basic theory

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Modern Mathematical Statistics with Applications Second Edition strikes a balance between mathematical foundations and statistical practice In keeping with the recommendation that every math student should study statistics and probability with an emphasis on data analysis accomplished authors Jay Devore and Kenneth Berk make statistical concepts and methods clear and relevant through careful explanations and a broad range of applications involving real data The main focus of the book is on presenting and illustrating methods of inferential statistics that are useful in research It begins with a chapter on descriptive statistics that immediately exposes the reader to real data The next six chapters develop the probability material that bridges the gap between descriptive and inferential statistics Point estimation inferences based on statistical intervals and hypothesis testing are then introduced in the next three chapters The remainder of the book explores the use of this methodology in a variety of more complex settings This edition includes a plethora of new exercises a number of which are similar to what would be encountered on the actuarial exams that cover probability and statistics Representative applications include investigating whether the average tip percentage in a particular restaurant exceeds the standard 15% considering whether the flavor and aroma of Champagne are affected by bottle temperature or type of pour modeling the relationship between college graduation rate and average SAT score and assessing the likelihood of O ring failure in space shuttle launches as related to launch temperature **Leading Personalities in Statistical Sciences** Norman L. Johnson, Samuel Kotz, 2011-09-26 A fascinating chronicle of the lives and achievements of the men and women who helped shape the science of statistics This handsomely illustrated volume will make enthralling reading for scientists mathematicians and science history

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- Chapter 5: Conclusion

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Table of Contents Statistical Mathematics

1. Understanding the eBook Statistical Mathematics

- The Rise of Digital Reading Statistical Mathematics
- Advantages of eBooks Over Traditional Books
- 2. Identifying Statistical Mathematics
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Statistical Mathematics
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Statistical Mathematics
 - Personalized Recommendations
 - Statistical Mathematics User Reviews and Ratings
 - Statistical Mathematics and Bestseller Lists
- 5. Accessing Statistical Mathematics Free and Paid eBooks
 - Statistical Mathematics Public Domain eBooks
 - Statistical Mathematics eBook Subscription Services
 - Statistical Mathematics Budget-Friendly Options
- 6. Navigating Statistical Mathematics eBook Formats
 - ePub, PDF, MOBI, and More
 - Statistical Mathematics Compatibility with Devices
 - Statistical Mathematics Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Statistical Mathematics
 - Highlighting and Note-Taking Statistical Mathematics
 - Interactive Elements Statistical Mathematics
- 8. Staying Engaged with Statistical Mathematics
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Statistical Mathematics

9. Balancing eBooks and Physical Books Statistical Mathematics
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Statistical Mathematics
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Statistical Mathematics
 - Setting Reading Goals Statistical Mathematics
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Statistical Mathematics
 - Fact-Checking eBook Content of Statistical Mathematics
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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