

# 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

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

# Mathematics For Statistics

**C. E. Weatherburn**



## Mathematics For Statistics:

**Mathematical Statistics** A A Borokov, 1999-01-27 A wide ranging extensive overview of modern mathematical statistics this work reflects the current state of the field while being succinct and easy to grasp The mathematical presentation is coherent and rigorous throughout The author presents classical results and methods that form the basis of modern statistics and examines the foundations of estimation theory hypothesis testing theory and statistical game theory He then considers statistical problems for two or more samples and those in which observations are taken from different distributions Methods of finding optimal and asymptotically optimal statistical procedures are given along with treatments of homogeneity testing regression variance analysis and pattern recognition The author also posits a number of methodological improvements that simplify proofs and brings together a number of new results which have never before been published in a single monograph

A First Course Mathematical Statistics C. E. Weatherburn, 1949-01-02 This book provides the mathematical foundations of statistics Its aim is to explain the principles to prove the formulae to give validity to the methods employed in the interpretation of statistical data Many examples are included but since the primary emphasis is on the underlying theory it is of interest to students of a wide variety of subjects biology psychology agriculture economics physics chemistry and of course mathematics

Introduction to Mathematical Statistics Robert V. Hogg, Joseph W. McKean, Allen T. Craig, 2018-01-10 For courses in mathematical statistics Comprehensive coverage of mathematical statistics with a proven approach Introduction to Mathematical Statistics by Hogg McKean and Craig enhances student comprehension and retention with numerous illustrative examples and exercises Classical statistical inference procedures in estimation and testing are explored extensively and the text's flexible organization makes it ideal for a range of mathematical statistics courses Substantial changes to the 8th Edition many based on user feedback help students appreciate the connection between statistical theory and statistical practice while other changes enhance the development and discussion of the statistical theory presented

0134686993 9780134686998 Introduction to Mathematical Statistics 8 e *All of Statistics* Larry Wasserman, 2010-12-01 Taken literally the title All of Statistics is an exaggeration But in spirit the title is apt as the book does cover a much broader range of topics than a typical introductory book on mathematical statistics This book is for people who want to learn probability and statistics quickly It is suitable for graduate or advanced undergraduate students in computer science mathematics statistics and related disciplines The book includes modern topics like nonparametric curve estimation bootstrapping and classification topics that are usually relegated to follow up courses The reader is presumed to know calculus and a little linear algebra No previous knowledge of probability and statistics is required Statistics data mining and machine learning are all concerned with collecting and analyzing data For some time statistics research was conducted in statistics departments while data mining and machine learning research was conducted in computer science departments Statisticians thought that computer scientists were reinventing the wheel Computer scientists thought that statistical theory

didn't apply to their problems. Things are changing. Statisticians now recognize that computer scientists are making novel contributions while computer scientists now recognize the generality of statistical theory and methodology. Clever data mining algorithms are more scalable than statisticians ever thought possible. Formal statistical theory is more pervasive than computer scientists had realized.

*A Brief Course in Mathematical Statistics* Elliot A. Tanis, 2008

**Mathematical Statistics** Peter J. Bickel, Kjell A. Doksum, 2015-11-04

*Mathematical Statistics: Basic Ideas and Selected Topics, Volume II* presents important statistical concepts, methods, and tools not covered in the author's previous volume. This second volume focuses on inference in non- and semiparametric models. It not only reexamines the procedures introduced in the first volume from a more sophisticated point of view.

**Mathematical Statistics** Keith Knight, 1999-11-24

Traditional texts in mathematical statistics can seem to some readers heavily weighted with optimality theory of the various flavors developed in the 1940s and 50s and not particularly relevant to statistical practice. Mathematical Statistics stands apart from these treatments. While mathematically rigorous, its focus is on providing a set of useful tools that allow students to understand the theoretical underpinnings of statistical methodology. The author concentrates on inferential procedures within the framework of parametric models but, acknowledging that models are often incorrectly specified, he also views estimation from a non-parametric perspective. Overall, Mathematical Statistics places greater emphasis on frequentist methodology than on Bayesian but claims no particular superiority for that approach. It does emphasize, however, the utility of statistical and mathematical software packages and includes several sections addressing computational issues. The result reaches beyond nice mathematics to provide a balanced, practical text that brings life and relevance to a subject so often perceived as irrelevant and dry.

**Introduction to Mathematical Statistics** Robert V. Hogg, Joseph W. McKean, Allen T. Craig, 2012-02-28

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. *Introduction to Mathematical Statistics, Seventh Edition* offers a proven approach designed to provide you with an excellent foundation in mathematical statistics. Ample examples and exercises throughout the text illustrate concepts to help you gain a solid understanding of the material.

*An Introduction to Probability and Mathematical Statistics* Howard G. Tucker, 1965

**Statistics for Mathematicians** Victor M. Panaretos, 2016-06-09

This textbook provides a coherent introduction to the main concepts and methods of one-parameter statistical inference. Intended for students of Mathematics taking their first course in Statistics, the focus is on Statistics for Mathematicians rather than on Mathematical Statistics. The goal is not to focus on the mathematical theoretical aspects of the subject but rather to provide an introduction to the subject tailored to the mindset and tastes of Mathematics students who are sometimes turned off by the informal nature of Statistics courses. This book can be used as the basis for an elementary semester-long first course on Statistics with a firm sense of direction that does not sacrifice rigor. The deeper goal of the text is to attract the attention of promising Mathematics students.

**An Introduction to Mathematical Statistics**

**and Its Applications** Richard J. Larsen, Morris L. Marx, 2011-11-21 This is the eBook of the printed book and may not include any media website access codes or print supplements that may come packaged with the bound book Noted for its integration of real world data and case studies this text offers sound coverage of the theoretical aspects of mathematical statistics The authors demonstrate how and when to use statistical methods while reinforcing the calculus that students have mastered in previous courses Throughout the Fifth Edition the authors have added and updated examples and case studies while also refining existing features that show a clear path from theory to practice **Einführung in die mathematische Statistik** Leopold Schmetterer, 1966 **A Course in Mathematical Statistics and Large Sample Theory** Rabi Bhattacharya, Lizhen Lin, Victor Patrangenaru, 2016-08-13 This graduate level textbook is primarily aimed at graduate students of statistics mathematics science and engineering who have had an undergraduate course in statistics an upper division course in analysis and some acquaintance with measure theoretic probability It provides a rigorous presentation of the core of mathematical statistics Part I of this book constitutes a one semester course on basic parametric mathematical statistics Part II deals with the large sample theory of statistics parametric and nonparametric and its contents may be covered in one semester as well Part III provides brief accounts of a number of topics of current interest for practitioners and other disciplines whose work involves statistical methods **Introduction to Mathematical Statistics, Global Edition** Robert V. Hogg, Joseph McKean, Allen T. Craig, 2019-11-04 For courses in mathematical statistics Comprehensive coverage of mathematical statistics with a proven approach Introduction to Mathematical Statistics by Hogg McKean and Craig enhances student comprehension and retention with numerous illustrative examples and exercises Classical statistical inference procedures in estimation and testing are explored extensively and the text's flexible organisation makes it ideal for a range of mathematical statistics courses Substantial changes to the 8th Edition many based on user feedback help students appreciate the connection between statistical theory and statistical practice while other changes enhance the development and discussion of the statistical theory presented The full text downloaded to your computer With eBooks you can search for key concepts words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf available as a free download available online and also via the iPad and Android apps Upon purchase you'll gain instant access to this eBook Time limit The eBooks products do not have an expiry date You will continue to access your digital ebook products whilst you have your Bookshelf installed *Mathematical Statistics* Thomas S. Ferguson, 2014-07-10 Mathematical Statistics A Decision Theoretic Approach presents an investigation of the extent to which problems of mathematical statistics may be treated by decision theory approach This book deals with statistical theory that could be justified from a decision theoretic viewpoint Organized into seven chapters this book begins with an overview of the elements of decision theory that are similar to those of the theory of games This text then examines the main theorems of decision theory that involve two more notions namely the admissibility

of a decision rule and the completeness of a class of decision rules Other chapters consider the development of theorems in decision theory that are valid in general situations This book discusses as well the invariance principle that involves groups of transformations over the three spaces around which decision theory is built The final chapter deals with sequential decision problems This book is a valuable resource for first year graduate students in mathematics **Introduction to**

**Mathematical Statistics** Carl Joseph West,1918

**Modern Mathematical Statistics with Applications** Jay L.

Devore,Kenneth N. Berk,Matthew A. Carlton,2021-04-29 This 3rd edition of Modern Mathematical Statistics with

Applications tries to strike a balance between mathematical foundations and statistical practice The book provides a clear and current exposition of statistical concepts and methodology including many examples and exercises based on real data gleaned from publicly available sources Here is a small but representative selection of scenarios for our examples and exercises based on information in recent articles Use of the Big Mac index by the publication The Economist as a humorous way to compare product costs across nations Visualizing how the concentration of lead levels in cartridges varies for each of five brands of e cigarettes Describing the distribution of grip size among surgeons and how it impacts their ability to use a particular brand of surgical stapler Estimating the true average odometer reading of used Porsche Boxsters listed for sale on www cars com Comparing head acceleration after impact when wearing a football helmet with acceleration without a helmet Investigating the relationship between body mass index and foot load while running The main focus of the book is on presenting and illustrating methods of inferential statistics used by investigators in a wide variety of disciplines from actuarial science all the way to zoology It begins with a chapter on descriptive statistics that immediately exposes the reader to the analysis of real data The next six chapters develop the probability material that facilitates the transition from simply describing data to drawing formal conclusions based on inferential methodology Point estimation the use of statistical intervals and hypothesis testing are the topics of the first three inferential chapters The remainder of the book explores the use of these methods in a variety of more complex settings This edition includes many new examples and exercises as well as an introduction to the simulation of events and probability distributions There are more than 1300 exercises in the book ranging from very straightforward to reasonably challenging Many sections have been rewritten with the goal of streamlining and providing a more accessible exposition Output from the most common statistical software packages is included wherever appropriate a feature absent from virtually all other mathematical statistics textbooks The authors hope that their enthusiasm for the theory and applicability of statistics to real world problems will encourage students to pursue more training in the discipline **Approximation Theorems of Mathematical Statistics** Robert J. Serfling,2009-09-25

Approximation Theorems of Mathematical Statistics This convenient paperback edition makes a seminal text in statistics accessible to a new generation of students and practitioners Approximation Theorems of Mathematical Statistics covers a broad range of limit theorems useful in mathematical statistics along with methods of proof and techniques of application

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Basics of Modern Mathematical Statistics Wolfgang Karl Härdle, Vladimir Spokoiny, Vladimir Panov, Weining

Wang, 2013-11-27. The complexity of today's statistical data calls for modern mathematical tools. Many fields of science make use of mathematical statistics and require continuous updating on statistical technologies. Practice makes perfect since mastering the tools makes them applicable. Our book of exercises and solutions offers a wide range of applications and numerical solutions based on R. In modern mathematical statistics, the purpose is to provide statistics students with a number of basic exercises and also an understanding of how the theory can be applied to real world problems. The application aspect is also quite important as most previous exercise books are mostly on theoretical derivations. Also, we add some problems from topics often encountered in recent research papers. The book was written for statistics students with one or two years of coursework in mathematical statistics and probability, professors who hold courses in mathematical statistics, and researchers in other fields who would like to do some exercises on math statistics.

**Mathematical Statistics With Applications** Asha

Seth Kapadia, Wenyaw Chan, Lemuel A. Moyé, 2017-07-12. Mathematical statistics typically represents one of the most difficult challenges in statistics, particularly for those with more applied rather than mathematical interests and backgrounds. Most textbooks on the subject provide little or no review of the advanced calculus topics upon which much of mathematical statistics relies and furthermore contain material that is wholly theoretical, thus presenting even greater challenges to those interested in applying advanced statistics to a specific area. *Mathematical Statistics with Applications* presents the background concepts and builds the technical sophistication needed to move on to more advanced studies in multivariate analysis, decision theory, stochastic processes, or computational statistics. Applications embedded within theoretical discussions clearly demonstrate the utility of the theory in a useful and relevant field of application and allow readers to avoid sudden exposure to purely theoretical materials. With its clear explanations and more than usual emphasis on applications and computation, this text reaches out to the many students and professionals more interested in the practical use of statistics to enrich their work in areas such as communications, computer science, economics, astronomy, and public

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