

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

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

Basic Statistics With Applications

D. Colquhoun



Basic Statistics With Applications:

Basic Statistics Edwin Mansfield, 1986 This book is written for first courses in statistics for undergraduates and graduate students

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

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Mathematical Statistics with Applications Kandethody M. Ramachandran, Chris P.

Tsokos, 2009-03-13

Mathematical Statistics with Applications provides a calculus based theoretical introduction to mathematical statistics while emphasizing interdisciplinary applications as well as exposure to modern statistical computational and simulation concepts that are not covered in other textbooks Includes the Jackknife Bootstrap methods the EM algorithms and Markov chain Monte Carlo methods Prior probability or statistics knowledge is not required Step by step procedure to solve real problems making the topic more accessible Exercises blend theory and modern applications Practical real world chapter projects Provides an optional section in each chapter on using Minitab SPSS and SAS commands

Lectures on Biostatistics D. Colquhoun, 1971

Introductory Statistics with Applications in General Insurance I. B. Hossack, J. H. Pollard, B. Zehnirith, 1999-04 This is a new edition of a very successful introduction to statistical methods for general insurance practitioners No prior statistical knowledge is assumed and the mathematical level required is approximately equivalent to school mathematics Whilst the book is primarily introductory the authors discuss some more advanced topics including simulation calculation of risk premiums credibility theory estimation of outstanding claim provisions and risk theory All topics are illustrated by examples drawn from general insurance and references for further reading are given Solutions to most of the exercises are included For the new edition the opportunity has been taken to make minor improvements and corrections throughout the text to rewrite some sections to improve clarity and to update the examples and references A new section dealing with estimation has also been added

Basic Statistics with Applications Edwin Mansfield, 1986

Modern Mathematical Statistics with Applications Jay L. Devore, Kenneth N. Berk, 2011-12-06

Many mathematical statistics texts are heavily oriented toward a rigorous mathematical development of probability and statistics without much attention paid to how statistics is actually used. In contrast, *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.

An Introduction to Statistics with Python Thomas Haslwanter, 2022-11-15. Now in its second edition, this textbook provides an introduction to Python and its use for statistical data analysis. It covers common statistical tests for continuous, discrete, and categorical data, as well as linear regression analysis and topics from survival analysis and Bayesian statistics. For this new edition, the introductory chapters on Python data input and visualization have been reworked and updated. The chapter on experimental design has been expanded, and programs for the determination of confidence intervals commonly used in quality control have been introduced. The book also features a new chapter on finding patterns in data, including time series. A new appendix describes useful programming tools such as testing tools, code repositories, and GUIs. The provided working code for Python solutions, together with easy-to-follow examples, will reinforce the reader's immediate understanding of the topic. Accompanying data sets and Python programs are also available online. With recent advances in the Python ecosystem, Python has become a popular language for scientific computing, offering a powerful environment for statistical data analysis. With examples drawn mainly from the life and medical sciences, this book is intended primarily for masters and PhD students. As it provides the required statistics background, the book can also be used by anyone who wants to perform a statistical data analysis.

Applied Statistics with Python Leon Kaganovskiy, 2025-03-03. *Applied Statistics with Python Volume I: Introductory Statistics and Regression* concentrates on applied and computational aspects of statistics, focusing on conceptual understanding and Python-based calculations. Based on years of experience

teaching introductory and intermediate Statistics courses at Touro University and Brooklyn College this book compiles multiple aspects of applied statistics teaching the reader useful skills in statistics and computational science with a focus on conceptual understanding This book does not require previous experience with statistics and Python explaining the basic concepts before developing them into more advanced methods from scratch Applied Statistics with Python is intended for undergraduate students in business economics biology social sciences and natural science while also being useful as a supplementary text for more advanced students Key Features Concentrates on more introductory topics such as descriptive statistics probability probability distributions proportion and means hypothesis testing as well as one variable regression The book s computational Python approach allows us to study Statistics much more effectively It removes the tedium of hand calculator computations and enables one to study more advanced topics Standardized sklearn Python package gives efficient access to machine learning topics Randomized homework as well as exams are provided in the author s course shell on My Open Math web portal free

Basic Statistics with R Stephen C. Loftus, 2021-02-20 Basic Statistics with R Reaching Decisions with Data provides an understanding of the processes at work in using data for results Sections cover data collection and discuss exploratory analyses including visual graphs numerical summaries and relationships between variables basic probability and statistical inference including hypothesis testing and confidence intervals All topics are taught using real data drawn from various fields including economics biology political science and sports Using this wide variety of motivating examples allows students to directly connect and make statistics essential to their field of interest rather than seeing it as a separate and ancillary knowledge area In addition to introducing students to statistical topics using real data the book provides a gentle introduction to coding having the students use the statistical language and software R Students learn to load data calculate summary statistics create graphs and do statistical inference using R with either Windows or Macintosh machines Features real data to give students an engaging practice to connect with their areas of interest Evolves from basic problems that can be worked by hand to the elementary use of opensource R software Offers a direct clear approach highlighted by useful visuals and examples

Statistics and Probability for Engineering Applications William DeCoursey, 2003-05-14 Statistics and Probability for Engineering Applications provides a complete discussion of all the major topics typically covered in a college engineering statistics course This textbook minimizes the derivations and mathematical theory focusing instead on the information and techniques most needed and used in engineering applications It is filled with practical techniques directly applicable on the job Written by an experienced industry engineer and statistics professor this book makes learning statistical methods easier for today s student This book can be read sequentially like a normal textbook but it is designed to be used as a handbook pointing the reader to the topics and sections pertinent to a particular type of statistical problem Each new concept is clearly and briefly described whenever possible by relating it to previous topics Then the student is given carefully chosen examples to deepen understanding of the basic ideas and how they are applied in

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Probability and Statistics by Example: Volume 1, Basic Probability and Statistics Yu. M. Suhov, Mark Kelbert, 2005-10-13 Probability and Statistics are as much about intuition and problem solving as they are about theorem proving Because of this students can find it very difficult to make a successful transition from lectures to examinations to practice since the problems involved can vary so much in nature Since the subject is critical in many modern applications such as mathematical finance quantitative management telecommunications signal processing bioinformatics as well as traditional ones such as insurance social science and engineering the authors have rectified deficiencies in traditional lecture based methods by collecting together a wealth of exercises for which they have supplied complete solutions These solutions are adapted to needs and skills of students To make it of broad value the authors supply basic mathematical facts as and when they are needed and have sprinkled some historical information throughout the text

Statistics and Probability with Applications for Engineers and Scientists Bhisham C Gupta, Irwin Guttman, 2014-03-06 Introducing the tools of statistics and probability from the ground up An understanding of statistical tools is essential for engineers and scientists who often need to deal with data analysis over the course of their work Statistics and Probability with Applications for Engineers and Scientists walks readers through a wide range of popular statistical techniques explaining step by step how to generate analyze and interpret data for diverse applications in engineering and the natural sciences Unique among books of this kind Statistics and Probability with Applications for Engineers and Scientists covers descriptive statistics first then goes on to discuss the fundamentals of probability theory Along with case studies examples and real world data sets the book incorporates clear instructions on how to use the statistical packages Minitab and Microsoft Office Excel to analyze various data sets The book also features Detailed discussions on sampling distributions statistical estimation of population parameters hypothesis testing reliability theory statistical quality control including Phase I and Phase II control charts and process capability indices A clear presentation of nonparametric methods and simple and multiple linear regression methods as well as a brief discussion on logistic regression method Comprehensive guidance on the design of experiments including randomized block designs one and two way layout designs Latin square designs random effects and mixed effects models factorial and fractional factorial designs and response surface methodology A companion website containing data sets for Minitab and Microsoft Office Excel as well as JMP routines and results Assuming no background in probability and statistics Statistics and Probability with

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Handbook for Teaching Statistics and Research Methods Mark E. Ware,Charles L. Brewer,2013-11-26 This volume presents a collection of articles selected from Teaching of Psychology sponsored by APA Division 2 It contains the collective experience of teachers who have successfully dealt with students statistics anxiety resistance to conducting literature reviews and related problems For those who teach statistics or research methods courses to undergraduate or graduate students in psychology education and the social sciences this book provides many innovative strategies for teaching a variety of methodological concepts and procedures in statistics and research methods courses Probability and Statistics with Applications Leonard A. Asimow,Mark M. Maxwell,2010 This text is listed on the Course of Reading for SOA Exam P and for the CAS Exam ST Probability and Statistics with Applications A Problem Solving Text is an introductory textbook designed to make the subject accessible to college freshmen and sophomores concurrent with their study of calculus The book provides the content to serve as the primary text for a standard two semester advanced undergraduate course in mathematical probability and statistics It is organized specifically to meet the needs of students who are preparing for the Society of Actuaries and Casualty Actuarial Society qualifying examination P 1 and the statistics component of CAS Exam 3L Sample actuarial exam problems are integrated throughout the text along with an abundance of illustrative examples and 799 exercises The chapters on mathematical statistics cover all of the learning objectives for the statistics portion of the Casualty Actuarial Society Exam ST syllabus Here again liberal use is made of past exam problems from CAS Exams 3 and 3L A separate solutions manual for the text exercises is also available **An Introduction to Model-Based Survey Sampling with Applications** Ray L. Chambers,Robert Clark,2012-01-12 This text brings together important ideas on the model based approach to sample survey which has been developed over the last twenty years Suitable for graduate students and

professional statisticians it moves from basic ideas fundamental to sampling to more rigorous mathematical modelling and data analysis and includes exercises and solutions Statistics Byron W. Brown, Byron Wm. Brown, Jr., Myles Hollander, 1977-10-04 Elementary rules of probability Populations samples and the distribution of the sample mean Analysis of matched pairs using sample means Analysis of the two sample location problem using sample means Surveys and experiments in medical research Statistical inference for dichotomous variables Comparing two success probabilities Chi squared tests Analysis of k sample problems Linear regression and correlation Analysis of matched pairs using ranks Analysis of the two sample location problem using ranks Methods for censored data *Basic Statistics with Business Applications* Richard Cook Clelland, John S. DeCani, Francis E. Brown, 1966 **Data Analysis and Statistics for Geography, Environmental Science, and Engineering** Miguel F. Acevedo, 2012-12-07 Providing a solid foundation for twenty first century scientists and engineers Data Analysis and Statistics for Geography Environmental Science and Engineering guides readers in learning quantitative methodology including how to implement data analysis methods using open source software Given the importance of interdisciplinary work in sustain

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