

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

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

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Mathematics and Statistics for Science James Sneyd, Rachel M. Fewster, Duncan McGillivray, 2022-06-27 Mathematics and statistics are the bedrock of modern science No matter which branch of science you plan to work in you simply cannot avoid quantitative approaches And while you won't always need to know a great deal of theory you will need to know how to apply mathematical and statistical methods in realistic scenarios That is precisely what this book teaches It covers the mathematical and statistical topics that are ubiquitous in early undergraduate courses but does so in a way that is directly linked to science Beginning with the use of units and functions this book covers key topics such as complex numbers vectors and matrices differentiation both single and multivariable integration elementary differential equations probability random variables inference and linear regression Each topic is illustrated with widely used scientific equations such as the ideal gas law or the Nernst equation and real scientific data often taken directly from recent scientific papers The emphasis throughout is on practical solutions including the use of computational tools such as Wolfram Alpha or R not theoretical development There is a large number of exercises divided into mathematical drills and scientific applications and full solutions to all the exercises are available to instructors Mathematics and Statistics for Science covers the core methods in mathematics and statistics necessary for a university degree in science highlighting practical solutions and scientific applications Its pragmatic approach is ideal for students who need to apply mathematics and statistics in a real scientific setting whether in the physical sciences life sciences or medicine *Mathematics and Statistics for Life Scientists* Aulay Mackenzie, 2005 This series focuses on core information and is designed to help students get to grips with a subject quickly and easily Each title is written in an easy to follow manner by respected academics and is well illustrated with clear diagrams

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level of education It even shows up in how people stereotype mathematics courses What this book aims to do therefore is serve as a foundational text in everyday mathematics in a way that is both engaging and practically useful The book seeks to teach the mathematics needed to start to answer fundamental questions like why or how Why do we only need to take census data once every few years How do we determine the optimal dosing of a new pharmaceutical without killing people in the process Or more generally what does it even mean to be average Or what does it mean for two things to actually be different These questions require a different way of thinking a quantitative intuition that goes beyond rote memorization and equips readers to meet the quantitative challenges inherent in any applied discipline Features Draws from a diverse range of fields to make the applications as inclusive as possible Would be ideal as a foundational mathematical and statistical textbook for any applied quantitative science course

Revolutionizing Data Science and Analytics for Industry Transformation Manuel, Paul Devasahayam, Qureshi, Kalim Uddin, Venkatachalam, Thamilarasi, 2025-01-31 The fields of data science and analytics are always evolving By understanding and navigating the data driven revolution advancements can be made in domains such as healthcare finance education and more Harnessing the power of data in decision making and problem solving across industries industries may advance their methods of data collection data visualization and predictive modeling As such it is important to stay abreast of the latest developments methodologies and trends in data driven research Revolutionizing Data Science and Analytics for Industry Transformation contributes to fostering collaboration innovation and excellence in data science research It democratizes access to knowledge and empowers individuals and organizations to thrive in the data driven era Covering topics such as outcome prediction deep reinforcement learning and Mask Attention BERT Networks this book is an excellent resource for data scientists business professionals policymakers computer scientists statisticians engineers professionals researchers scholars academicians and more

Essential Mathematics and Statistics for Science Antony Dowman, 2009

Classic Works of the Dempster-Shafer Theory of Belief Functions Ronald R. Yager, Liping Liu, 2008-02-22 This is a collection of classic research papers on the Dempster Shafer theory of belief functions The book is the authoritative reference in the field of evidential reasoning and an important archival reference in a wide range of areas including uncertainty reasoning in artificial intelligence and decision making in economics engineering and management The book includes a foreword reflecting the development of the theory in the last forty years

Handbook of Occupational Groups and Series, 1997

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Statistics in Spectroscopy Howard Mark, Jerry Workman Jr., 2012-12-02 This tutorial offers a basic hands on approach to statistical analysis for chemists and spectroscopists Without involving complicated mathematics this book is designed to provide the reader with the basic principles underlying the use of common mathematical and statistical tools Particular

emphasis has been given to problem solving applications and the proper use and interpretation of spectroscopic data With exercises throughout this book is also suitable for use as a textbook in analytical chemistry instrumental analysis and statistics in chemistry courses Serves as a primer for all chemists who need to know more about statistical analysis Explains the effect of error on data and how to make the correct interpretation Written in a readable style with minimal mathematics Developed from the popular series of the same name first published in Spectroscopy magazine

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