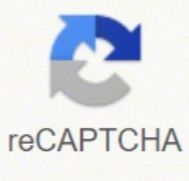




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This is a Shiny app for exploration. a-error (or a-risk). In hypothesis testing, an error incurred by failing to reject a null hypothesis when it is actually false (also called a type II error). Adjusted R². A variation of the R² statistic that compensates for the number of parameters in a regression model. Essentially, the adjustment is a penalty for increasing the number of parameters in the model. Alias. In a fractional factorial experiment when certain factor effects cannot be estimated uniquely, they are said to be aliased. Analysis of variance (ANOVA). A method of decomposing the total variability in a set of observations, as measured by the sum of the squares of these observations from their average, into component sums of squares that are associated with specific defined sources of variation. Bayes' estimator. An estimator for a parameter obtained from a Bayesian method that uses a prior distribution for the parameter along with the conditional distribution of the data given the parameter to obtain the posterior distribution of the parameter. The estimator is obtained from the posterior distribution. Bernoulli trials. Sequences of independent trials with only two outcomes, generally called "success" and "failure," in which the probability of success remains constant. Bias. An effect that systematically distorts a statistical result or estimate, preventing it from representing the true quantity of interest. C chart. An attribute control chart that plots the total number of defects per unit in a subgroup. Similar to a defects-per-unit or U chart. Center line. A horizontal line on a control chart at the value that estimates the mean of the statistic plotted on the chart. See Control chart. Central limit theorem. The simplest form of the central limit theorem states that the sum of n independently distributed random variables will tend to be normally distributed as n becomes large. It is a necessary and sufficient condition that none of the variances of the individual random variables are large in comparison to their sum. There are more general forms of the central theorem that allow infinite variances and correlated random variables, and there is a multivariate version of the theorem. Chance cause. The portion of the variability in a set of observations that is due to only random forces and which cannot be traced to specific sources, such as operators, materials, or equipment. Also called a common cause. Conditional probability mass function. The probability mass function of the conditional probability distribution of a discrete random variable. Confounding. When a factorial experiment is run in blocks and the blocks are too small to contain a complete replicate of the experiment, one can run a fraction of the replicate in each block, but this results in losing information on some effects. These effects are linked with or confounded with the blocks. In general, when two factors are varied such that their individual effects cannot be determined separately, their effects are said to be confounded. Control limits. See Control chart. Deining relation. A subset of effects in a fractional factorial design that define the aliases in the design. Designed experiment. An experiment in which the tests are planned in advance and the plans usually incorporate statistical models. See Experiment. Discrete random variable. A random variable with a finite (or countably infinite) range. Exhaustive. A property of a collection of events that indicates that their union equals the sample space. F distribution. The distribution of the random variable defined as the ratio of two independent chi-square random variables, each divided by its number of degrees of freedom. Gamma random variable. A random variable that generalizes an Erlang random variable to noninteger values of the parameter r. Geometric random variable. A discrete random variable that is the number of Bernoulli trials until a success occurs.

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