



Tables Describing Small-Sample Properties of the Mean, Median, Standard Deviation, and Other Statistics in Sampling from Various Distributions (Classic Reprint) (Hardback)

By Churchill Eisenhart

Forgotten Books, 2018. Hardback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from Tables Describing Small-Sample Properties of the Mean, Median, Standard Deviation, and Other Statistics in Sampling From Various Distributions This note includes a collection of tables useful for study of the sampling distributions of some frequently-used statistics, with brief discussions of their construction and use. (1) The probability level $P(e, n)$ of any continuous parent distribution corresponding to level e of the distribution of the median. (2) Probability points of certain sample statistics for samples from six distributions: normal and double exponential (mean, median), rectangular (mean, median, midrange), Cauchy, Sech, Sech² (median). In all the above tables, the sample size n and the probability levels are e 001, 005, 01, 025, 05, 10, 20, 25. Together with the tables listed under (2) are given the values of certain ratios useful for comparing the various statistics. (3) Probability that the standard deviation of a normal distribution will be underestimated by the sample standard deviation s and by unbiased estimators of σ based on s , on the mean deviation, and on the sample range. Divisors are given for obtaining the corresponding median unbiased estimators....



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