

# Goodness of Fit Tests for Type-II Right Censored Samples

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## Abstract

One approach of testing goodness of fit for Type-II right censored samples is to transform the censored sample so that it behaves under the null hypothesis like a complete sample from the uniform  $(0, 1)$  distribution. Then one can apply any goodness of fit test for complete samples. In this presentation, several methods of transforming Type-II right censored order statistics based on i.i.d.  $\mathcal{U}_{(0,1)}$  random variables to a complete ordered sample from the uniform  $(0, 1)$  distribution are described and the distribution of the transformed variables under the alternative is considered.

*Key Words:* order statistics, Type-II censoring, goodness of fit tests, transformation of censored samples.