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Title: Characterizations of the Transmuted Lindley distribution

Author(s): Mr Muhammad Shuaib Khan, Dr. Robert King, Prof. Irene Lena Hudson

This paper presents some characterizations of the transmuted Lindley distribution for modelling reliability data. The transmuted Lindley distribution can be obtained by using quadratic rank transmutation map technique. We obtain the analytic shapes of the density and hazard functions. Some structural properties of the transmuted Lindley distribution are discussed, which special emphasis on its moments. The method of maximum likelihood is used for estimating the model parameters. We illustrate the use of this model with an application to engineering data.