

UPPER RECORD VALUES FROM RAYLEIGH LOMAX DISTRIBUTION

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SUMMARY

In this paper, we introduced upper record values from the Rayleigh Lomax (URL) distribution. The associated statistical properties including r^{th} moments, mean, variance, co-efficient of variation, skewness, kurtosis, moment generating function, characteristics function, cumulant generation function, and mean deviation have been derived. The expressions for some reliability measures (survival function, hazard function, cumulative hazard function, reverse hazard function, mills ratio, odd function, and elasticity), Lorenz, and Bonferroni curves, Renyi and Q-entropy of the URL distribution have been derived. Finally, developed the expressions for the confidence interval for the URL distribution.

Keywords and phrases: Upper record values; moments; mean deviation; entropy; recurrence relations; confidence intervals.

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