

# **Comparison of Bayes Estimates of Parameter and Reliability Function for the Exponentiated Complementary Power Function Distribution**

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## **ABSTRACT**

We defined exponentiated complementary power function distribution and some properties of this distribution. Maximum Likelihood estimates and Bayes Estimators of parameters and reliability measures of exponentiated complementary power function distribution are derived. Bayes estimators of parameter and reliability measures are derived under different loss functions. A simulation study is also taken into account to compare the efficiency of estimators as the results are not in close form.

**Keywords:** Bayes Estimators, Maximum Likelihood Estimators, Loss functions.