

Article

A New Xgamma–Weibull Model Using Type-II Adaptive Progressive Hybrid Censoring and Its Applications in Engineering and Medicine

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Abstract: This paper is an attempt to study the Xgamma–Weibull distribution using an adaptive progressive type-II censoring plan. This scheme effectively ensures that the experimental time does not exceed a predetermined time limit. Using two classical estimation methods—namely, maximum likelihood and maximum product of spacing—both point and interval estimations for the unknown model parameters, as well as some parameters of life—namely, reliability and hazard rate functions—were obtained. The asymptotic normality of both classical methods was used to determine the approximate confidence intervals for the various parameters. Based on the two conventional methodologies, Bayesian estimations were also investigated using the MCMC technique under the squared error loss function. In addition, the credible intervals of the different parameters were also obtained. To compare the performance of the various approaches, a thorough simulation study was carried out. Furthermore, we propose using several optimality criteria to select the best sampling technique. Finally, two real-world datasets were used to demonstrate how the suggested estimators and optimality criteria operate in real-world circumstances.

Keywords: Xgamma–Weibull distribution; likelihood and product of spacings functions; adaptive type-II progressively hybrid censoring; interval estimation; Bayes inference; reliability analysis



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1. Introduction

A new one-parameter Xgamma (XG(θ)) distribution has been introduced by Sen et al. [1] as a special, finite mixture of exponential and gamma distributions. Recently, using the XG density, Yousof et al. [2] proposed and studied a new extension of the one-parameter Weibull distribution named the two-parameter Xgamma–Weibull (XGW(δ, θ)) distribution. They derived several properties of the XGW distribution and also showed that its density can be represented as a mixture of exponentiated Weibull densities. Moreover, they estimated the XGW parameters using uncensored samples via the maximum likelihood estimation method. Cordeiro et al. [3] further proposed the three-parameter XGW distribution as a member of the XG family of distributions. However, we assume here that X is a lifetime random variable of an experimental unit(s) test that follows a two-parameter XGW distribution denoted by XGW(β), where $\beta = (\delta, \theta)^T$ is the parameter vector. Consequently, the respective probability density function (PDF), cumulative distribution function (CDF), reliability function (RF) and hazard function (HF) for X are given, respectively, by

$$f(x; \beta) = \frac{\theta \delta^2 x^{\theta-1} e^{-\delta x^\theta}}{(1 + \delta)} \left(1 + \frac{1}{2} \delta x^{2\theta} \right), \quad x > 0, \quad (1)$$

Hybrid Censoring Models Methods And Applications For Engineering And Bio Health

N. Balakrishnan, Rita Aggarwala



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including the most recent research and trends Explains why hybrid censored sampling is important in practice Provides details about the use of HCS under different settings and on various designs of HCS Describes the use of hybrid censoring in other reliability applications such as reliability sampling plans step stress testing and quality control

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Progressive Censoring N. Balakrishnan,Rita Aggarwala,2000-06-16 Censored sampling arises in a life testing experiment whenever the experimenter does not observe either intentionally or unintentionally the failure times of all units placed on a life test Inference based on censored sampling has been studied during the past 50 years by numerous authors for a wide range of lifetime distributions such as normal exponential gamma Rayleigh Weibull extreme value log normal inverse Gaussian logistic Laplace and Pareto Naturally there are many different forms of censoring that have been discussed in the literature In this book we consider a versatile scheme of censoring called progressive Type II censoring Under this scheme of censoring from a total of n units placed on a life test only m are completely observed until failure At the time of the first failure R_1 of the $n - 1$ surviving units are randomly withdrawn or censored from the life testing experiment At the time of the next failure R_2 of the $n - 2 - R_1$ surviving units are censored and so on Finally at the time of the m th failure all the remaining $R_m - n - m - R_1 - R_2 - \dots - R_{m-1}$ surviving units are censored Note that censoring takes place here progressively in m stages Clearly this scheme includes as special cases the complete sample situation when $m = n$ and $R_1 = R_m = 0$ and the conventional Type II right censoring situation when $R_1 = R_m = 1$ and $R_m = n - m$

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