Electronic Journal: Southwest Journal of Pure and Applied Mathematics
Internet: http://rattler.cameron.edu/swjpam.html
ISSN 1083-0464
Issue 1, July 2002, pp. 1–5.
Submitted: April 1, 2001. Published: July 1 2002.

A SAMPLING SCHEME FOR RELIABILITY ESTIMATION

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Abstract. A Three-stage sampling scheme for estimating the reliability of a series system when the component reliabilities are modeled as beta random variables is proposed. The sampling scheme specifies how a total of T units can be allocated to two independent components. It is shown that the proposed sampling scheme is nearly optimal.

1991 A.M.S. (MOS) Subject Classification Codes. 62105, 62l10

Key Words and Phrases. Bayes risk, martingales, uniform integrability.

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