



Journal of Applied Statistics >

Volume 33, 2006 - [Issue 6](#)

679 | 151 | 0
Views | CrossRef citations to date | Altmetric

Original Articles

Acceptance sampling based on truncated life tests for generalized Rayleigh distribution

Tzong-Ru Tsai & Shuo-Jye Wu

Pages 595-600 | Published online: 04 Oct 2006

Cite this article <https://doi.org/10.1080/02664760600679700>

Sample our Mathematics & Statistics Journals
>> [Sign in here](#) to start your access to the latest two volumes for 14 days

Full Article

Figures & data

References

Citations

Metrics

Reprints & Permissions

Read this article

Share

Abstract

This paper considers the problem of an acceptance sampling plan for a truncated life test when the lifetime follows the generalized Rayleigh distribution. For different acceptance numbers, confidence levels, and values of the ratio of the fixed experiment time to the specified mean life, the minimum sample sizes necessary to ensure the specified mean life are found. The operating characteristic values of the sampling plans and producer's risk are discussed. Some tables are presented and the use of the tables is illustrated by a numerical example.

Keywords:

Consumer's risk

generalized Rayleigh distribution

operating characteristic curve

producer's risk

truncated life tests

Acknowledgements

The authors would like to thank the Editor and the referees for their suggestions, which led to the improvement of this paper.



Related research i

People also read

Recommended articles

Cited by
151

Information for

Authors
R&D professionals
Editors
Librarians
Societies

Opportunities

Reprints and e-prints
Advertising solutions
Accelerated publication
Corporate access solutions

Open access

Overview
Open journals
Open Select
Dove Medical Press
F1000Research

Help and information

Help and contact
Newsroom
All journals
Books

Keep up to date

Register to receive personalised research and resources
by email

 Sign me up

  

  

Copyright © 2026 Informa UK Limited Privacy policy Cookies Terms & conditions

Accessibility



Registered in England & Wales No. 01072954
5 Howick Place | London | SW1P 1WG