Abstract

The present paper discusses the problem of estimating the reliability measures of a three-component identical system when the system is affected by Common Cause Shock (CCS) failures as well as human errors. The maximum likelihood estimators of the reliability measures like reliability function and mean time between failures of the present model are obtained. The performances of the proposed estimates have been developed in terms of mean square error, using simulated data.
Estimation of the Reliability Measures of a Three-component System with Human Errors and Common Cause Failures


**Index Terms**
Computer Science Applied Sciences

**Keywords**
M L estimation CCS failures Human errors Reliability function MTBF Monte-Carlo Simulation