On the Reliability of Multi-State m-consecutive-at least-k-out-of-n: F Systems

Abstract

Reliability importance of a component is a quantitative measure of the importance of the individual component in contributing to system reliability. In this paper, an appropriate Markov chain imbedding technique is employed to obtain the reliability of an multi-state m-consecutive-at least-k-out-of-n: F systems when the system components are independently functioning with not necessarily equal reliability. Finally, an illustrative is given example.

References

75–77.

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Index Terms

Computer Science   Applied Mathematics

Keywords

Reliability    Multi-state    Markov chain imbedding    Consecutive systems