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 example is given.

References

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Index Terms

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Reliability  Multi-state  Markov chain imbedding  Consecutive systems