

A Study on a System Having Three Identical Units with Four Types of Failure

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ABSTRACT

This paper deals with the reliability analysis of a system having two parallel identical operating units with one identical unit in cold standby configuration subject to four types of failure i.e. whenever any operating unit fails its goes to repair. There is a single repair facility to repair the failed units on first come first serve basis. After repair unit works as a new unit. All the failure and repair time distributions are assumed to be negative exponential.

Key Words: Reliability; Mean time to system failure.