

RELIABILITY ESTIMATION OF A TWO UNIT PARALLEL SYSTEM

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ABSTRACT

This paper deals with reliability estimation of a system having two parallel operating units subject to inspection and replacement. Whenever any operating unit fails it is inspected to diagnose the possibility of its either repair or replacement. There is a single repair facility to repair the failed units on first come first serve basis. All the failure time distributions are assumed to be negative exponential while as inspection, repair and replacement time distributions are taken to be arbitrarily. Using regenerative point technique system reliability obtained.

KEYWORDS: Reliability, Mean Time to System Failure, Regenerative Point Technique