



RELIABILITY CHARACTERISTICS OF FOUR STATE COMPLEX SYSTEM UNDER COMMON CAUSE AND HUMAN FAILURES

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Abstract

In this paper, normal and partially operating states of the system are considered. The failure and deterioration of components of the system is taken to be critical. The system fails due to common cause and human failure. The failure time distribution and repair time distribution from operating states are negative exponential whereas repair rate from failed state is general.

Key words : Negative exponential distribution, Common cause failure, Mean time to system failure.