Abstract

The present paper deals with a reliability model of a two unit cold standby system that exposed to two types of failures. In each unit there are hardware and software components that work together and fail independently. There is a single server who visits the system immediately when required. The server inspects the unit in case of software failure and decides either to repair or replace it. The h/w components undergo for repair at their failure and are replaced by new one in case of arriving to maximum repair time. All time distributions are considered to be exponential. Various measures of reliability of the system are obtained using regenerative point technique. Finally simulation study is done to illustrate the results.

References


Index Terms

Computer Science
Software Engineering

Keywords

Cold Standby System, Maximum Repair Time, Inspection, Replacement, Profit Gain