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15.Title	Two- Identical Unit Deteriorating Standby System Models under Varying Workload and Installation after Repair
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Abstract	In the present paper, we considered two-identical unit deteriorating standby system when workload increases arbitrarily for some random duration. After repair, the unit goes for installation, which also takes some random time. Further, assuming uniform distribution for lifetime of the units empirical study has been made. There is a single repair facility to repair the units. After repair , the unit goes for inspection and maintenance if required, which takes some random time. Study of the system has been made when workload increases arbitrarily for some duration. Some particular cases have been considered. Using the regenerative point technique(Markov Renewal) , we obtain the following measures of reliability: ● Steady state transition probabilities and Mean Sojourns times. ● Distribution of time to system failure (TSF) and its mean (MTSF) ● Pointwise and steady state availability of the system ● Probability that the repairman is busy. ● Expected number of visits by the repairman. By using different repair and inspection time the measures of reliability are estimated and their behavior is represented graphically to have an idea about repair policy. Further, several practical problems on the above models is explained.