On Reliability of (n + 1)-Unit Warm Standby System based on Imperfect Repair Facility and Two Types of Failures

Abstract

This paper deals with an (n + 1)-unit warm standby system based on imperfect repair facility and two types of failures. These types of failure are hardware and human error failures. Various measures of the system reliability are obtained using the regenerative point technique. Finally a numerical example is presented to illustrate the theoretical results.

References

- B. S. Dhilon, Stochastic models for predicting human reliability, Microelectron. Reliab. 22 (1982), 491–496.
- B. S. Dhilon and R. B. Mishra, Reliability evaluation of system with critical human
On Reliability of (n + 1)-Unit Warm Standby System based on Imperfect Repair Facility and Two Types of Failures

- E. W. Hogen, Human reliability analysis, Nuclear Safety 17 (1976), 315–326.

**Index Terms**

Computer Science

Applied Mathematics
On Reliability of (n + 1)-Unit Warm Standby System based on Imperfect Repair Facility and Two Types of Failures

**Keywords**

reliability  warmstandby  humanerror failure  hardware failure  availability  cost  benefit.