Optimizations of Imperfect Repair Models[1]

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Abstract

Two imperfect repair models for system are considered, one introduced by Brown and Proschan(1983) and the other by Lee and Seoh(1999). We, in this paper, after assigning repair costs to the system, optimize both repair models, when the underlying life distributions of the system are exponential, uniform and Weibull.

Keywords : Imperfect Repair Model, Decreasing Mean Residual Life, Long-run Average Cost, Optimal Proportion of Perfect Repair