
Reliabilities Of Consecutive K Systems

theory and analysis of consecutive-k-out-of-n:g systems ... - theory and analysis of consecutive-k-out-of-n:g systems reliability by weixing zhang a dissertation submitted to the graduate faculty in partial fulfillment of the **ieee reliability of consecutive-k-out-of-n:f system** - reliability of consecutive-k-out-of-n:f system dalen t. Chiang 2. notation cleveland state university, cleveland shun-chen niu n number of components in a system cleveland state university, cleveland k minimum number of consecutive failed components which cause system failure p component reliability, i.e. the probability that a component is ... **large consecutive-k-out-of-n:f systems component reliability** - bounds and limit for the reliability $r(k, n)$ of a large consecutive-k-out-of-n: ... more examples of the reliabilities for consecutive-k-out-of-n:f systems with unequal component reliabilities **ijqrm a preventive maintenance of circular consecutive-k ...** - consecutive-k-out-of-n: f system. lambiris and papastavridis (1985) proposed a model for the system reliabilities of linear and circular consecutive-k-out-of-n: f systems. pekoz and ross (1995) simplified the model proposed in lambiris and papastavridis (1985). canfield and mccormick (1992) proposed an asymptotic reliability model. yunet al.(2007) **joint structural importance in consecutive-k systems** - becomes more important (less important) when the other works. a consecutive-k-out-of-n system is a linear arrangement of n components such that the system is failed if and only if some consecutive k components are all failed. in this paper, we study joint structural importance $jsi(i, j)$ in the consecutive-k-out-of-n system. **on a generalized k-out-of-n system and its reliability** - a consecutive-k-out-of-n system is a system with n components arranged either linearly or circularly, which fails if and only if at least k consecutive components fail. an (n, f, k) system further requires that the total number of failed components is less than f for the system to be working. here we consider a more general system consisting of n ... **optimal consecutive-k-out-of- $(2k+1)$... - k** ;) is a cycle of components such that the system works if and only if some k consecutive components all work. suppose n components with reliabilities p_1, p_2, \dots, p_n are all exchangeable. how can they be assigned to the n positions on cycle maximize reliability of system? kuo, zhang, and zuo [2] showed that if $k = 2$, then the ... **computing consecutive-type reliabilities non-recursively** - computing consecutive-type reliabilities non-recursively galit shmueli the author is with the department of statistics, carnegie mellon university, pittsburgh, pa 15213-3890 usa ... consecutive-k-out-of-n and similar systems usually have a higher reliability than series systems, and are less expensive than parallel systems (chao et al., 1995). **on the reliability of consecutive systems - iaeng** - on the reliability of consecutive systems spiros d. dafnis, frosso s. makri and zaharias m. psillakis/abstract a consecutive system, the failure of which depends on the occurrence of a number of failure-success patterns, is introduced. it extends several consecutive systems studied so far in the literature. the exact system reliability is ... **optimal consecutive-k-out-of- $2k+1$ g cycle** - key words: invariant optimal assignment, consecutive-k-out-of-n: g cycle 1. introduction a cyclic consecutive-k-out-of-n: g system consists of n components such that the system works if and only if some k consecutive components all work. suppose n components with reliabilities p_1, p_2, \dots, p_n are all exchangeable. **condition-based maintenance problem of a consecutive-k-out ...** - calculate the reliability of a consecutive-k-out-of-n: f system [3]. lambiris and papastavridis proposed a model for the system reliabilities of linear and circular consecutive-k-out-of-n: f systems [4]. pekoz and ross simplified the model in lambiris and papastavridis [5]. canfield and mccormick **a simple derivation of exact reliability formulas for ...** - a simple derivation of exact reliability formulas for linear and circular consecutive-k-out-of-n: f systems erol a. pekoz and sheldon m. ross,* university of california, berkeley abstract exact reliability formulas for linear and circular consecutive-k-out-of-n: f systems are derived in the case of equal component reliabilities. **consecutive-k-out-of-n: f repairable system with markov ...** - system reliability when component reliabilities are the same and given by p. the reliability of consecutive-k-out-of-n: f system with component reliabilities p is denoted by $r(k, n, p)$ consecutive-k-out-of-n: g system is an ordered sequence of n components such that the system works if and only if at least k consecutive components are working.

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