

**introduction to fuzzy reliability - pdfsmanticscholar** - reliability theory is based on the possibility assumption and the binary-state assumption; and posfust reliability theory is based on the possibility assumption and the fuzzy-state assumption. at present, profust and posbist reliability theories have been developed, whereas posfust reliability theory is yet to be developed.

**introduction to fuzzy reliability - zilkerboats** - introduction to fuzzy reliability - pdfsmanticscholar wed, 13 mar 2019 08:37:00 gmt reliability theory is based on the possibility assumption and the binary-state assumption; and posfust reliability theory is based on the possibility assumption and the fuzzy-state assumption. at present, profust and posbist reliability theories have been

**free download introduction to fuzzy reliability book** - free download introduction to fuzzy reliability book introduction to fuzzy reliability is written by kai-yuan cai in english language. release on 1996-07-31, this book has 311 page count that include important information with easy reading experience. the book was publish by springer science & business

**weibull fuzzy probability distribution for reliability of ...** - 364 karp $\tilde{A}, \tilde{A}'$ ,  $\tilde{A} \pm \tilde{A}$   $\langle \tilde{A} \ddagger$  sek z. et al.: weibull fuzzy probability distribution for reliability of concrete structures this approach then makes it possible to model the reliability of an object as a reliability system with di $\tilde{A} \sim \tilde{A} \rightarrow \tilde{A} \in$ erent membership degrees, using fuzzy reliability, based on the notion of fuzzy probability [1,4].

**fuzzy simulation in reliability analysis** - fuzzy simulation in reliability analysis dzi $\tilde{A} \dots \tilde{A} \phi$ ac simona, hora cristina university of oradea, romania abstract: in the first part of this paper we present an introduction of fuzzy logic application in power systems and equipments reliability analysis. the second part considers the development of a computer

**introduction to fuzzy reliability pdf** - introduction to fuzzy reliability pdf may not make exciting reading, but introduction to fuzzy reliability is packed with valuable instructions, information and warnings. we also have many ebooks and user guide is also related with introduction to fuzzy reliability pdf, include : islamism and

**system reliability analysis based on weibull distribution ...** - keywords-hesitant fuzzy number, membership function, weibull distribution, hesitant fuzzy, averaging operator. 1. introduction reliability theory plays a key role in the history of fuzzy set theory and engineering fields. in previous years many researchers studied the fuzzy and fuzzy reliability theories and applied in daily life bases.

**reliability assessment for fuzzy multi-state systems** - fuzzy reliability theory, which employs the fuzzy theory introduced by zadeh (1965, 1978), is becoming a new methodology to study the imprecision and uncertainty phenomena in reliability engineering (cai 1991), and it has since received increasing attention. for example, cai, wen and zhang (1991) introduced

**reliability indices of distribution system by fuzzy method** - reliability indices are taken from standard fuzzy values. fuzzy reliability indices values are calculated using standard methods to fuzzy [5] form given taken here. index terms $\tilde{A} \phi \tilde{A} \in$ " saifi, saidi, caidi, failure rate, repair duration, fizzy value introduction the reliability of a distribution system is usually

**reliability analysis for non-repairable multi-state system ...** - numerical examples are presented to illustrate how to calculate the fuzzy system reliability of nmss. keywords: non-repairable multi-state system, weibull distribution, fuzzy system reliability, vagueness coefficient 1 introduction

in real application, multi-state system (mss) models is widely used for the reliability evaluation of complex systems.

**an introduction to reliability analysis - uliege** - introduction denoel vincent, an introduction to reliability analysis because of the evident complexity of some problems, the analytical approach can't be applied in any case; because of their evident time demand and mainly because of the huge quantity of information coming out from the analysis, the mcs technique and the fuzzy arithmetics are ...

**fuzzy reliability analysis of a pulping system in paper ...** - fuzzy reliability analysis of a pulping system in paper industry with general distributions for all random variables jitender kumar 1 and meenu goel \* abstract: this paper discussed the fuzzy reliability of pulping system in paper industry. pulping system consists of four subsystems such as digester, knotter, deckers, and openers.

**analyzing system reliability using fuzzy weibull lifetime ...** - analyzing system reliability using fuzzy weibull lifetime distribution 95 in this case, the fuzzy probability of event  $x \leq c$ ,  $0 < c < \infty$  and its cut set computes as follows: [13].

**a study on fuzzy reliability measures - m-hikari** - introduction the reliability engineering is one of the important engineering tasks in design and development of a technical system. it is well known that the conventional reliability analysis using the probabilities has been found to be inadequate to ... a study on fuzzy reliability measures 3343 ...

**fuzzy reliability analysis in interconnection networks** - this paper proposes the fuzzy reliability model for multiprocessor interconnection systems, which takes into an account of uncertainty process. the effect of processor failure rate and coverage on fuzzy reliability is investigated. keywords: reliability, coverage, failure rate, fuzzy reliability, interconnection network, i. introduction

**predicting rainfall using the principles of fuzzy set ...** - predicting rainfall using the principles of fuzzy set theory and reliability analysis ... introduction . first fuzzy set concepts are discussed followed by principles of reliability analysis. this work is an extension of ... fuzzy set of objects, in a triangular functional diagram.

**early software reliability prediction : a fuzzy logic approach** - early software reliability prediction a fuzzy logic approach ^springer. contents 1 introduction 1 1.1 need for reliable and quality software 1 1.2 software reliability 2 ... 3.1 introduction 35 3.2 brief overview of fuzzy logic system 36 3.3 proposed model 37 3.3.1 description of metrics considered for the model 39

**132 issues with reliability of fuzzy logic - ijtsrd** - the reliability and robustness concerns in fuzzy systems, safety may be compromised. keyword: fuzzy logic, control engineering, fuzzy membership function, probability, reliability, safety 1. introduction fuzzy logic is a form of many valued logic in which the truth values of variables may be any real number

**evaluating fuzzy reliability using vague set approach** - keywords: - fuzzy system reliability, series and parallel network system, vague set 1. introduction most of the researches [1,4,5,6,11] in classical reliability theory are based on binary state assumption for states. in gracefully degradable systems, it is unrealistic to assume that the system possesses only two states that is, 'working' or

**review article fuzzy human reliability analysis ...** - review article fuzzy human reliability analysis: applications and contributions review p.aziuk, 1 s.s.rivera, 2 and j.n.f. ±ezmcleod 1 conicet and national university of cuyo, mendoza, argentina

**reliability analysis of a system using intuitionistic fuzzy ...** - reliability analysis of a system using intuitionistic fuzzy sets 435 fig. 5 parallel-series networks (d) series-parallel systems: - consider a series-parallel network consisting of  $n$  connections connected in parallel and each connection contains  $m$  components as shown in the figure.

**fuzzy reliability theory based on membership function** - applied fuzzy reliability theory is applied to practical engineering problem. method of fuzzy reliability evaluation are developed. keywords-fuzzy reliability, membership function, permitted wear fuzzy value. 1. introduction the random variable was adopted to describing the objective randomness of such variable, in the conventional reliability ...

**system reliability using generalized intuitionistic fuzzy ...** - ( , ) -cut, generalized intuitionistic fuzzy distribution, generalized intuitionistic fuzzy reliability. i. introduction after the introduction of fuzzy sets by zadeh (1965), many researchers used the concept of fuzzy set to deal with uncertainty in reliability analysis. for example: singer

**possibility and probability aspect to fuzzy reliability ...** - possibility and probability aspect to fuzzy reliability analysis of network system a. mukesh k. sharma . deptt. of mathematics, r.s.s. (p.g.) college pilkhuwa, hapur-245304 (u.p.) india. abstract . in the present paper fuzzy process, similar to a stochastic process is carried out for reliability analysis of the network modeling.

**parameters and reliability estimation for the fuzzy ...** - 144 nathier a. ibrahim et al.: parameters and reliability estimation for the fuzzy exponential distribution since our research deals with fuzzy =probability distribution and reliability, so we need to explain some probability measures of fuzzy events, then of reliability function [16].

**fuzzy reliability analysis for the evaluation of water ...** - fuzzy reliability analysis for the evaluation of water resource systems performance ibrahim el-baroudy, shohan ahmad and slobodan p. simonovic department of civil and environmental engineering, institute for catastrophic loss reduction, university of western ontario, london, on, canada n6a 5b9 abstract

**fuzzy reliability model of systems for decision support in ...** - improve equipment reliability and management efficiency. the complex application of the classical reliability model and fuzzy reliability model can improve the decisions foundation made in technical diagnostics problems. 1. introduction and task statement

**numerical method for fuzzy reliability analysis** - numerical method for fuzzy reliability analysis zhangchun tang, zhenzhou lu, and yanjun xia; northwestern polytechnical university, 710072 xi'an, people's republic of china

**system reliability using generalized intuitionistic fuzzy ...** - in this paper, the concept of fuzzy reliability is extended by the idea of generalized intuitionistic fuzzy reliability. we investigate the reliability characteristics of systems using rayleigh lifetime distribution, in which the lifetime parameter is assumed to be generalized ... introduction one of the major fields in engineering is ...

**fuzzy reliability prediction of rotating machinery product ...** - fuzzy reliability prediction of rotating machinery product with accelerated testing data le liu<sup>1</sup>, xiao-yang li<sup>2</sup>, wei zhang<sup>3</sup>, tong-min jiang<sup>4</sup> school of reliability and systems engineering, beihang university, beijing, 100191, china

**reliability analysis of a powerloom plant using interval ...** - since the introduction of fuzzy set by zadeh [2] in 1965, the concept of fuzzy sets has been extended by various researchers such as interval-fuzzy sets [8], fuzzy multisets [9], etc. but in the words of gehrke et al. [10], many people believe that assigning an exact number to an expert's opinion is too restrictive, and that the

assignment of

**system reliability optimization: a fuzzy genetic algorithm ...** - concerning the cost and reliability goals through the use of fuzzy numbers. the utility of the approach is demonstrated on benchmark problems in the literature. computational results show that the fmga approach is promising. keywords system reliability optimization, multi-objective optimization, genetic algorithm, fuzzy optimization, redundancy 1.

**introduction to fuzzy reliability the springer ...** - the introduction to fuzzy reliability the springer international series in engineering and computer science that you can take. and when you really need a book to read, pick this book as good reference. well..low is related ebooks that you can read : shoper 9 pos user manual,good school scavenger hunt clues,conscious parent

**computing cronbach alpha reliability coefficient for fuzzy ...** - purpose of improving the reliability. keywords fuzzy cronbach alpha, reliability coefficient, interval number, fuzzy data 1. introduction crocker and algina [1] defined reliability as "the repeatability of measurements for a qualification carried out on the same individuals under the similar conditions".

**web access failure analysis " fuzzy reliability approach** - introduction in this paper, possibilistic fault tree is developed to overcome the hazards of the traditional intolerance probability values in a http failure analysis. the http failure rate is obtained from the system or directly ... fuzzy reliability approach > (, ) ...

**fuzzy logic reliability centered maintenance - core** - maintenance strategy for the company. the results of the fuzzy logic rcm application are maintenance strategy which fit with current and future condition. keywords: reliability centered maintenance, fuzzy logic introduction reliability centered maintenance (rcm) is a siste-matic maintenance strategy based on a system relia-

**reliability quantitative risk assessment in engineering ...** - uncertainty in results and helpful for reliability quantitative risk assessment. keywords: quantitative risk analysis, event tree analysis, reliability, fuzzy sets. 1. introduction 1 reliability of system is the ability to operate under designated operating conditions for a designated period of

**reliability analysis of a series and parallel network ...** - triangular intuitionistic fuzzy sets 4. reliability analysis of series and parallel network in this section, taking the reliability of each component to be a triangular intuitionistic fuzzy set we have evolved a fuzzy reliability evaluation technique for series and parallel systems.

**a fuzzy approach of online reliability modeling and ...** - discussed (probabilistic, fuzzy/possibility approaches), and the inherent limits of both methods are pointed out. keywords: reliability, prognostic, degradation, fuzzy logic, possibility theory. 1. introduction the growth of reliability, availability and safety of a system is a determining factor in

**a fuzzy system for the assessment of human reliability** - keywords " fuzzy sets, human reliability, industrial process safety. 1 introduction human reliability has received much attention in areas such as nuclear, aviation and petrochemical industries. although resources have been historically applied mostly in equipment reliability and process optimization, it has been realized that

**fuzzy reliability analysis of ... - scientific advances** - fuzzy reliability analysis of compound / ijamml 3:1 (2015) 31-39 35 3. fuzzy reliability analysis in early failure mode according to the lemma 2.1, when m