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# Introduction To Fuzzy Reliability Author Kai Yuan Cai Jul 1996

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#### **Introduction To Fuzzy Reliability eBook**

About Introduction To Fuzzy Reliability Writer Introduction to Fuzzy Reliability pp Cite as Software is developed by human If human commits errors, defects may be introduced into software Under some circumstances, defects may be activated by software inputs and lead to faulty software states and eventually result in software failures This

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#### **132 Issues with Reliability of Fuzzy Logic**

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

#### **Fuzzy reliability analysis of a pulping system in paper ...**

1 Introduction In the present era of industrial growth, the optimal efficiency and minimum hazards, are more chal-lengeable to maintain To overcome these issues, reliability technology can play an important role Reliability analysis of an industrial system provides the concrete information about the

working and \*Corresponding author: Meenu Goel,

### **Reliability Indices of Distribution system by Fuzzy Method**

Reliability Indices of Distribution system by Fuzzy Method Mr CV Mohan, Dr Seetharam K, Dr HBPhani Raju, ABSTRACT—Reliability analysis is a very important factor in power system planning Each of the components related to reliability of distributed power system related are taken separately

### **System reliability using generalized intuitionistic fuzzy ...**

Jun 07, 2018 · intuitionistic fuzzy reliability characteristics In Section 5, generalized intuitionistic fuzzy reliability of series and parallel systems are calculated The paper is concluded in Section 6 2 Preliminaries In this section, we review some basic concepts of GIFN F s 21 Generalized Intuitionistic Fuzzy Number Definition 211

### **675 Reliability and performance assessment for fuzzy multi ...**

Reliability and performance assessment for fuzzy multi-state elements Y Liu<sup>1</sup>, H-Z Huang<sup>1\*</sup>, and G Levitin<sup>2</sup> <sup>1</sup>School of Mechatronics Engineering, University of Electronic Science and Technology of China, Chengdu, Sichuan, People's Republic of China <sup>2</sup>The Israel Electric Corp Ltd, Israel The manuscript was received on 31 January 2008 and was accepted after revision for publication on 13 August 2008

### **1830. Fuzzy reliability prediction of rotating machinery ...**

The last part is to conduct fuzzy reliability analysis based on the fuzzy q-TTFs in normal operating condition, which can provide reliable information for maintenance decision-making through reliability, MTTF or other indexes The following sections will address the analysis of accelerated testing with vibration data in detail Fig 1

### **1. Introduction 2. Proposed fuzzy reliability analysis ...**

determine the fuzzy reliability index and is able to perform sensitivity analysis regarding the epistemic uncertainty 2 Proposed fuzzy reliability analysis procedure In the proposed method, after determining the same alpha cuts  $\alpha_k$  of fuzzy random variables, a hyperspace namely crisp subspace  $X_{\alpha k}$  is constructed If the fuzzy reliability

### **Qualitative and quantitative approaches to analyse ...**

The Author(s) 2015 This article is published with open access at Springerlinkcom evaluated system reliability using intuitionistic fuzzy fault tree analysis Isermann (2008) recognized the need to introduction to mechatronics and literature review con-

### **Life Cycle Costing for Engineers**

have been made to publish reliable data and information, but the author and publisher cannot assume responsibility for the validity of all materials or the consequences of their use The authors and publishers

### **MTBF evaluation for 2-out-of-3 redundant repairable ...**

The Author(s) 2017 This article is an open access publication (CCF) Cascading failure Fuzzy parameters Introduction Redundancy is a well-known and widely used approach to (2003) focused on the computation of the fuzzy reliability of a single component The idea is that if the value of fuzzy

### **RELIABILITY OF ELECTRIC POWER GENERATION IN POWER ...**

probabilistic and fuzzy probabilistic models of reliability is recommended Generation of electric power at wind power plants is treated as a non-stationary stochastic process controllable only to down The paper presents numerical examples Introduction Reliability is a fundamental requirement put to the power systems and their subsystems

**Reliability assessment for - SAGE Journals**

Introduction Reliability modeling and assessment are critical issues for complex engineering systems. It is challenging to accurately assess the reliability for such systems because of many factors such as the failure competing or dependencies, impact from external environments, and epistemic uncertainty associated with parameters of component.

**Vibration fatigue reliability analysis of aircraft landing ...**

fuzzy dynamic reliability model of dependent series mechanical systems [19]. Lv studied the numerical method and fuzzy model for the fuzzy reliability [20, 22]. However, these models mainly focused on static fuzzy reliability analysis of systems. Fuzzy dynamic reliability models of mechanical systems under the vibration fatigue are seldom reported.

**Power System Reliability Evaluation Using Fault Tree ...**

a new method for power system reliability analysis using the fault tree analysis approach. In most of the papers, generalized fuzzy numbers are converted into normal fuzzy numbers through normalization process [12], and then obtained normal fuzzy numbers are used to solve the real life problems. Kaufmann and Gupta [12] pointed out that there is a

**Reliability analysis of a robotic system using hybridized ...**

The Author(s) 2017. This article is an open access publication. Abstract: In this manuscript, the reliability of a robotic system has been analyzed using the available data (containing vagueness, uncertainty, etc). Quantification of involved uncertainties is done through data fuzzification using triangular fuzzy numbers with known spreads as

**Advances in Mechanical Engineering 2016, Vol. 8(8) 1-13 ...**

The Author(s) 2016. DOI: 10.1177/1687814016665798. aimesagepub.com. Structural hybrid reliability index and its convergent solving method based on random-fuzzy-interval reliability model. Hai An<sup>1</sup>, Ling Zhou<sup>2</sup> and Hui Sun<sup>2</sup>. Abstract: Aiming to resolve the problems of a variety of uncertainty variables that coexist in the engineering structure.