A Fuzzy Fault Diagnosis Method For Large Radar Based On

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A Fuzzy Fault Diagnosis Method

This paper puts forward the diagnosis method based on fuzzy mathematics, introduces fuzzy mathematical method into the suspension fault diagnosis, and analysis the ambiguity relationship between...

A New Fuzzy Fault Diagnosis Method | Request PDF

A New Fuzzy Fault Diagnosis Method Abstract: An expanded

type-2 fuzzy set is proposed, then we developed fuzzy diagnosis method based on it, in this paper; also the corresponding designing algorithm is given.

A New Fuzzy Fault Diagnosis Method - IEEE Conference ...

A method of fault detection and diagnosis is presented which uses static fuzzy models to describe the behaviour of both correctly operating and faulty systems. Fault detection is based on two models of correct operation; one generic and the other specific.

Fuzzy Model-Based Fault Detection and Diagnosis ...

The standard fault diagnosis techniques on wheel–rail fatigue problems are usually based on the above-described parameters , , . Usually non-linear mathematical equations need to be solved. The fuzzy method is less accurate eventually but it is quicker and simpler.

Railway wheel fault diagnosis using a fuzzy-logic method ...

Fault detection can benefit from nonlinear fuzzy modeling and fault diagnosis can profit from a transparent reasoning system, which can embed operator experience, but also learn from experimental and/or simulation data.

Fuzzy Fault Diagnosis | SpringerLink

Methods of fault diagnosis. Abstract. This paper gives a summary of methods that can be applied to automatic fault diagnosis. In the beginning, the focus is on classification and diagnostic reasoning using fuzzy logic. Subsequently, some of the ideas which have led to the emerging neuro-fuzzy algorithms are discussed.

Methods of fault diagnosis - ScienceDirect

A Novel Fault Diagnosis Method Based on Integrating Empirical Wavelet Transform and Fuzzy Entropy for Motor Bearing Abstract: Motor bearing is subjected to the joint effects of much more loads, transmissions, and shocks that cause bearing fault and machinery breakdown.

A Novel Fault Diagnosis Method Based on Integrating ...

Fault tree has been established in this paper by analyzing factors leading reciprocating compressor fault based on the method of fault tree. 21 minimum cut sets leading to reciprocating compressor fault can be gotten through qualitative analyses on this fault tree，the happening probability of the top event can be calculated and the importance of the basic event s can be analyzed through quantitative analysis.

The Study of Fault-Diagnosis Method of Reciprocating ...

To improve the reliability of power grid fault diagnosis by

enhancing the processing ability of uncertain information and adequately utilizing the alarm information about power grids, a fault diagnosis method using intuitionistic fuzzy Petri Nets based on time series matching is proposed in this paper.

Power Grid Fault Diagnosis Method Using Intuitionistic ...

Fuzzy Set Theory and Fault Tree Analysis based Method Suitable for Fault Diagnosis of Power Transformer Abstract: The fault detection and analysis for power transformer are the key measures to improve the security of power systems and the reliability of power supply.

Fuzzy Set Theory and Fault Tree Analysis based Method ...

Abstract: A new fuzzy fault diagnosis method using particle swarm optimization (PSO) algorithm to determine its membership function is proposed in view of weights training

technology of neural network. The brief introduction to fuzzy fault diagnosis method based on fuzzy classification concept is described at first. Then the process of obtaining membership function using PSO algorithm is ...

Fuzzy fault diagnosis method based on particle swarm ...

A new rolling bearing fault diagnosis method based on multi-scale fuzzy entropy (MFE), Laplacian Score (LS) and variable predictive model-based class discrimination (VPMCD) is proposed in this paper.

A rolling bearing fault diagnosis method based on multi ...

In this paper, the fuzzy fault diagnosis model of transformer is established based on the exponential trust degree of the sensor, the consistency of each sensor, the average weighted consistency of the sensor and the support of the sensor to the

transformer fault. By using this model to judge the probability of transformer fault location.

Research on transformer fault diagnosis method and ...

Based on extension set theory, an improved fuzzy fault diagnosis method was presented. The structure of fault model expression was built which contains the classic field and admittable field of fault symptoms. The structure described the fault state was established which consists of the denotation of the fault state, the symptoms and the corresponding values. Normalized membership function and ...

An Improved Fuzzy Fault Diagnosis Method for Complex System

Multi-concurrent fault diagnosis approach for aeroengine based on wavelet fuzzy network Abstract: To improve the limitation of applying traditional fault diagnosis method to the diagnosis of

multi-concurrent vibrant faults of aeroengine, a new diagnosis approach combining the wavelet transform with fuzzy theory is proposed.

Multi-concurrent fault diagnosis approach for aeroengine ...

To obtain the fault features of the bearing, a method based on variational mode decomposition (VMD), singular value decomposition (SVD) is proposed for fault diagnosis by Gath–Geva (G–G) fuzzy clustering.

A Bearing Fault Diagnosis Method Based on VMD-SVD and ...

Analyzes the transformer fuzzy fault characteristics, designs the detection platform of transformer fault diagnosis, establishes a transformer fuzzy fault diagnosis model with the exponential trust function of the photoelectric sensor, the average weighted

consistency of each photoelectric sensor and the support degree of the photoelectric sensors, gives the data fusion method with the trust function of the sensor and the maximum model value.

Research on transformer fault diagnosis method and ...

Finally, fuzzy C-means clustering algorithm is used to identify the faults of pumps. Experimental results indicate that the proposed method can identify the faults of pumps effectively. Keywords Hydraulic piston pumps, fault diagnosis, two-step EMD, end effects, waveform matching 1.

Fault diagnosis of hydraulic piston pumps based on a two ...

Download Citation | An Improved Fuzzy Fault Diagnosis Method for Complex System | Based on extension set theory, an improved fuzzy fault diagnosis method was presented. The structure of fault ...

An Improved Fuzzy Fault Diagnosis Method for Complex System

This work introduced a new method based on data-driven random fuzzy evidence acquisition and Dempster–Shafer evidence theory, which first compared fault sample data with fuzzy expert system, followed by the determination of random likelihood value and finally obtained diagnosis conclusion based on the data fusion rule.