

# Economic Model For Fuzzy Weibull Distribution

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## **Economic Model For Fuzzy Weibull**

The fuzzy concepts are applied for analysis of the Weibull Distribution. The goal of this article is to construct the economic model was combining Fuzzy Weibull Distribution with Integrated model...

## **(PDF) Charongrattanasakul**

### **Economic model for fuzzy Weibull ...**

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## **Economic Model For Fuzzy Weibull Distribution**

This paper discusses an Economic Production Quantity model for Weibull deteriorating items over an infinite time horizon under fuzzy environment. Fuzziness is introduced by allowing the cost components such as setup cost, production cost, holding cost, shortage cost and opportunity cost due to lost sales to certain extent.

## **Fuzzy Economic Production Quantity Model for Weibull ...**

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## **Economic Model For Fuzzy Weibull Distribution**

In the present work, we developed a fuzzy deterministic inventory model for non-instantaneous deteriorating items with exponential demand pattern proposed which the deterioration is a Weibull two parameter distribution and

## **A Fuzzy Inventory Model having Exponential Demand with ...**

Neuro-Fuzzy networks of Weibull type  
We approached a model based on Weibull type neural fuzzy networks. We modeled the functional unit of supply, UF-Supply, through a neural fuzzy network. Neural network scheme is shown in Figure 4.

## **A Fuzzy Weibull model with application in stocks ...**

364 Karp'ísek Z. et al.: Weibull Fuzzy

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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 different membership degrees, using fuzzy reliability, based on the notion of

## **WEIBULL FUZZY PROBABILITY DISTRIBUTION FOR RELIABILITY OF**

...

where  $t \geq 0$  represents time,  $\beta > 0$  is the shape or slope parameter, and  $\eta > 0$  is the scale parameter of the distribution. Eq. (6.38) is usually referred to as the two-parameter Weibull distribution. The slope of the Weibull distribution,  $\beta$ , is very important, as it determines which member of the family of Weibull failure distributions best fits or describes the data.

## **Weibull Probability Distribution - an overview ...**

The Weibull distribution is one of the most widely used lifetime distributions in reliability engineering. It is a versatile

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distribution that can take on the characteristics of other types of distributions, based on the value of the shape parameter,  $\beta$ . This chapter provides a brief background on the Weibull distribution, presents and derives most of the applicable ...

## **The Weibull Distribution - ReliaWiki**

The Weibull distribution is a special case of the generalized extreme value distribution. It was in this connection that the distribution was first identified by Maurice Fréchet in 1927. The closely related Fréchet distribution, named for this work, has the probability density function  $f(x) = -\frac{1}{\sigma} \left(\frac{x}{\sigma}\right)^{-\alpha} = -\left(\frac{x}{\sigma}\right)^{-\alpha}$ . The distribution of a random variable that is defined as the ...

## **Weibull distribution - Wikipedia**

P Weibull Analysis for Hard Disk failure Data Using Weibull++  $\eta = 366.2632$ ,  $\beta = 0.9207$  and  $\rho = 0.9240$  can be readily obtained. Fig. 1 shows the Hard

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disk drive failures using MRR.

## **(PDF) Empirical Analysis of The Weibull Distribution for ...**

The fuzzy model is defuzzified by using the extension principle. The solutions for maximizing the fuzzy profit functions have been derived by using the techniques of H. J. Zimmerman and A. Kaufmann and M. M. Gupta. The approximate optimal solutions for the model have been obtained by a numerical example.

## **Fuzzy Eoq Model for Time-Dependent Deteriorating Items And ...**

An EPQ Model with Two-Component Demand under Fuzzy Environment and Weibull Distribution Deterioration with Shortages A single-item economic production model is developed in which inventory is depleted not only due to demand but also by deterioration.

## **An EPQ Model with Two-Component**

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## **Demand under Fuzzy ...**

Kumar, et. al (2003) studied an economic production quantity model with fuzzy demand and deterioration rate. Syed and Aziz (2007) considered the signed distance method to introduce a fuzzy inventory model without shortages. De and Sana (2013) developed a backorder Economic Order Quantity model with promotional index for fuzzy decision variables.

## **Inventory Model with Price Related Demand, Weibull ...**

The economic model proposed for the design of the MEWMA chart assumes a Markovian process failure mechanism following an exponential distribution. We assess the sensitivity of the resulting economic design for the MEWMA to deviations from this assumption. ... T1 - A weibull process failure mechanism for the economic design of MEWMA control ...

## **A weibull process failure mechanism**



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## **for the economic ...**

Thus, the Weibull distribution can be used to model devices with decreasing failure rate, constant failure rate, or increasing failure rate. This versatility is one reason for the wide use of the Weibull distribution in reliability.

Suppose that  $X$  has the Weibull distribution with shape parameter  $k$ . The moments of  $X$ , and hence the mean and

## **9. The Weibull Distribution**

fuzzy numbers logic. In order to be loyal as much as possible of problem data, the fuzzy numbers are created using a membership function generated by a Weibull model. The Weibull probability density we determine using the least squares method relatively to stocks outputs relative frequencies. This idea brings fuzzy numbers close to stocks' problem.

**A Fuzzy Weibull model with application in stocks optimization** as fuzzy and allowing shortages. The

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same authors Yao and Lee [15-16] developed another inventory model with fuzzy demand quantity and fuzzy production quantity. In this , we have developed an economic production models with finite production rate and fuzzy deterioration rate. In the development of the model, lost of production quantity due to ...

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