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estimating the reliability of the fuzzy cascade system for Jan 14 2024 the importance of this study lies in estimating the reliability of the fuzzy 1 1 cascade system when the stress and strength variable is distributed weibull for three components with different shape parameters and different measurement parameters as the marginal reliability $r_1 r_2 r_3$ were estimated using two methods of

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fuzzy acceptance sampling plan for transmuted weibull Nov 12 2023 according to our investigation transmuted weibull is not used in acceptance sampling in a fuzzy environment the improvement of this research is to evaluate the vague portion of malfunctioning items p based on the probability distribution function of transmuted weibull model and attain a fuzzy operating characteristic curve

number of failures for weibull hazard function witha fuzzy Oct 11 2023 one approach to model a possibilistic uncertainty is by applying the fuzzy number theory in this paper we discuss the weibull hazard function by assuming a fuzzy shape parameter we look for the number of failures generating by the function using two different methods

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pdf computing the number of failures for fuzzy weibull Jun 07 2023 this paper aims to compute the number of failures for a system which has weibull failure distribution with a fuzzy shape parameter and uses the triangular fuzzy number tfn for the weibull shape parameter the number of failures plays an important factor in the study of maintenance strategy of a manufacturing system

optimizing the cost of integrated model for fuzzy failure May 06 2023 that minimize the fuzzy hourly cost finally the fuzzy hourly cost is transformed to crisp number by the centroid defuzzification keywords integrated model fuzzy weibull distribution ewma genetic algorithm centroid method engineering journal volume 21 issue 2 received 21 april 2016 accepted 4 october 2016 published 31 march 2017

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a statistical evaluation method based on fuzzy failure data Oct 31 2022 for complex equipment it is easy to over evaluate the impact of failure on production by estimating the reliability level only through failure probability to remedy this problem this paper proposes a statistical evaluation method based on fuzzy failure data considering the multi state characteristics of equipment failures in this method the new reliability evaluation scheme is firstly

weibull distribution what is it explained formula Sep 29 2022 key takeaways the weibull distribution is a flexible probability distribution commonly useful in reliability analysis to model product system or material lifetime or failure times it can capture various failure behaviors including increasing decreasing or constant hazard rates making it suitable for analyzing diverse reliability patterns

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