# Weibull Analysis

## What is it?

Weibull Analysis is a methodology for determining reliability characteristics and trends from field and/or test data. It allows decisions to be made based on a limited amount data. A special case with very few data points is WeiBayes Analysis. Results for a two-parameter Weibull Analysis provide estimates of an improving/degrading reliability trend (value of $\beta$) and the characteristic life (value of $\eta$, the estimated time at which 63.2% of a population will have failed due to a specific failure mode).
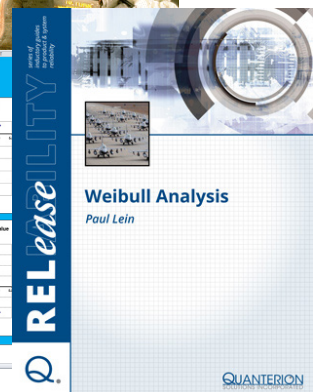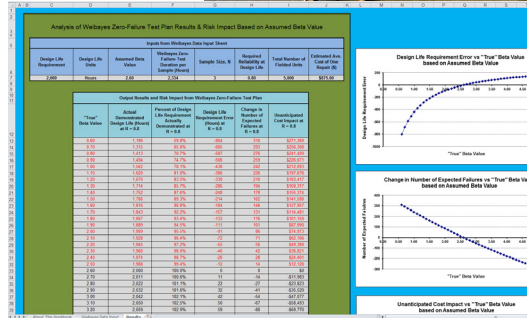
## What's the payoff?

It provides a better understanding of how parts and systems are performing compared to expectations so that design/process improvements can be planned and warranties can be cost-effectively defined and implemented.

## How can we help?

> Perform Weibull, WeiBayes or Dauser shift analyses to characterize the reliability of your products

> Develop custom software tools to automate Weibull Analysis of the data in your databases

> Help define corrective actions for problems identified as the result of Weibull, WeiBayes and other forms of reliability analyses

> Develop corrective action tracking systems

> Help develop data collection processes and systems so that the right data is available for analysis and decision making