



# Using the Weibull Distribution: Reliability, Modeling and Inference

*John I. McCool*

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**Understand and utilize the latest developments in Weibull inferential methods**

While the Weibull distribution is widely used in science and engineering, most engineers do not have the necessary statistical training to implement the methodology effectively. *Using the Weibull Distribution: Reliability, Modeling, and Inference* fills a gap in the current literature on the topic, introducing a self-contained presentation of the probabilistic basis for the methodology while providing powerful techniques for extracting information from data.

The author explains the use of the Weibull distribution and its statistical and probabilistic basis, providing a wealth of material that is not available in the current literature. The book begins by outlining the fundamental probability and statistical concepts that serve as a foundation for subsequent topics of coverage, including:

- Optimum burn-in, age and block replacement, warranties

and renewal theory

- Exact inference in Weibull regression
- Goodness of fit testing and distinguishing the Weibull

from the lognormal

- Inference for the Three Parameter Weibull

Throughout the book, a wealth of real-world examples showcases the discussed topics and each chapter concludes with a set of exercises, allowing readers to test their understanding of the presented material. In addition, a related website features the author's own software for implementing the discussed analyses along with a set of modules written in Mathcad®, and additional graphical interface software for performing simulations.

With its numerous hands-on examples, exercises, and software applications, *Using the Weibull Distribution* is an excellent book for courses on quality control and reliability engineering at the upper-undergraduate and graduate levels. The book also serves as a valuable reference for engineers, scientists, and business analysts who gather and interpret data that follows the Weibull distribution

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