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The formula for the probability density function of the general Weibull distribution is, where  $\lambda$  is the shape parameter,  $\mu$  is the location parameter and  $\sigma$  is the scale parameter. The case where  $\mu = 0$  and  $\sigma = 1$  is called the standard Weibull distribution. The case where  $\mu = 0$  is called the 2-parameter Weibull distribution.

1.3.6.6.8. Weibull Distribution

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8.1.6.2. Weibull

familiar distributions that either incorporate the WEIBULLdistribution as a special case or are related to it in some way (Section 3.2). Then (in Sections 3.3.1 to 3.3.10) we present a great variety of distribution models that have been derived from the WEIBULLdistribution

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Cumulative distribution function. The cumulative distribution function for the Weibull distribution is.  $F(x; k, \lambda) = 1 - e^{- (x / \lambda)^k}$ .  $\{ \displaystyle F(x; k, \lambda) = 1 - e^{- (x / \lambda)^k} \}$ , for  $x \geq 0$ , and  $F(x; k, \lambda) = 0$  for  $x < 0$ . If  $x = \lambda$  then  $F(x; k, \lambda) = 1 - e^{-1} \approx 0.632$  for all values of  $k$ .

Weibull distribution - Wikipedia

The Weibull Distribution. Rinne, H. (2008). The Weibull Distribution. New York: Chapman and Hall/CRC, <https://doi.org/10.1201/9781420087444>. The Most Comprehensive Book on the SubjectChronicles the Development of the Weibull Distribution in Statistical Theory and Applied StatisticsExploring one of the most important distributions in statistics, The Weibull Distribution: A Handbook focuses on its origin, statistical properties, and related distributions.

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