ESTIMATION OF WEIBULL PARAMETERS
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The two-parameter Weibull distribution has been widely used in reliability
and related studies.
(A location parameter can be meaningfully added in some cases).
The non-availability of maximum likelihood estimates in closed forms has
motivated many investigators to derive alternative estimates, particularly
of the more important shape parameter, either explicitly or numerically.
Considering a complete sample of failure times, several estimators based on

(1)   properties of the distribution including characterizations

(2)   percentiles or quantiles of suitably chosen orders
(3)   fractional moments   and

(4)   log-linear relation between failure-time and failure rate

   often using non-parametric estimates of survival and failure rate
functions have been discussed in this presentation.
 Some of these alternative estimates have been proposed by the author and
his associates.