References

See, in particular, Section 6.3 of:

Mardia, K.V., *Statistics of Directional Data*, Academic Press, New York, New York, 1972.

See, in particular, Chapter 27 of:

Zar, J.H., *Biostatistical Analysis*, 4th ed., 929 pp., Prentice Hall, Englewood Cliffs, New Jersey, 1999.

See Also

Chapter III-12, **Statistics** for a function and operation overview; **StatsWatsonUSquaredTest** and **StatsWheelerWatsonTest**.

StatsWeibullCDF

StatsWeibullCDF(*x*, *m*, *s*, *g*)

The StatsWeibullCDF function returns the Weibull cumulative distribution function

$$F(x;\mu,\sigma,\gamma) = 1 - \exp\left[-\left(\frac{x-\mu}{\sigma}\right)^{\gamma}\right], \qquad x \ge \mu \text{ and } \sigma,\gamma > 0.$$

See Also

Chapter III-12, **Statistics** for a function and operation overview; the **StatsWeibullPDF** and **StatsInvWeibullCDF** functions.

StatsWeibullPDF

StatsWeibullPDF(*x*, *m*, *s*, *g*)

The StatsWeibullPDF function returns the Weibull probability distribution function

$$f(x;\mu,\sigma,\gamma) = \frac{\gamma}{\sigma}\left(\frac{x-\mu}{\sigma}\right)^{\gamma-1}\exp\left[-\left(\frac{x-\mu}{\sigma}\right)^{\gamma}\right],$$

where *m* is the location parameter, *s* is the scale parameter, and *g* is the shape parameter with $x \ge m$ and *s*, $g > 0$.

See Also

Chapter III-12, **Statistics** for a function and operation overview; the **StatsWeibullCDF** and **StatsInvWeibullCDF** functions.

StatsWheelerWatsonTest

StatsWheelerWatsonTest [***flags***] [**srcWave1, srcWave2, srcWave3,**…]

The StatsWheelerWatsonTest operation performs the nonparametric Wheeler-Watson test for two or more samples. Output is to the W_WheelerWatson wave in the current data folder or optionally to a table.

Flags

/ALPH = *val* Sets the significance level (default *val*=0.05).

/Q No results printed in the history area.

/T=*k* Displays results in a table. *k* specifies the table behavior when it is closed.

Displays results in a table. *k* specifies the table behavior when it is closed.

k=0: Normal with dialog (default).

k=1: Kills with no dialog.

k=2: Disables killing.

The table is associated with the test, not the data. If you repeat the test, it will update any existing table with the new results.