where $I_0(b)$ is the modified Bessel function of the first kind **bessI**, and

$$0 < \theta \le 2\pi$$
$$0 < a \le 2\pi$$
$$b > 0.$$

References

Evans, M., N. Hastings, and B. Peacock, *Statistical Distributions*, 3rd ed., Wiley, New York, 2000.

See Also

Chapter III-12, **Statistics** for a function and operation overview; the **StatsVonMisesCDF**, **StatsInvVonMisesCDF**, and **StatsVonMisesNoise** functions.

StatsWaldCDF

StatsWaldCDF(*x*, *m*, *l*)

The StatsWaldCDF function returns the numerically evaluated inverse Gaussian or Wald cumulative distribution function.

See Also

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

StatsWaldPDF

StatsWaldPDF(*x*, *m*, *l*)

The StatsWaldPDF function returns the inverse Gaussian or Wald probability distribution function

$$f(x;\mu,\lambda) = \sqrt{\frac{\lambda}{2\pi x^3}} \exp\left[-\frac{\lambda(x-\mu)^2}{2\mu^2 x} \right]$$

where x, m, $l > 0$.

See Also

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

StatsWatsonUSquaredTest

StatsWatsonUSquaredTest [***flags***] ***srcWave1, srcWave2***

The StatsWatsonUSquaredTest operation performs Watson's nonparametric two-sample U^2 test for samples of circular data. Output is to the W_WatsonUtest 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. *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.
/Z	Ignores errors.