StatsLinearCorrelationTest, **StatsCircularCorrelationTest**, **StatsKendallTauTest**, **StatsSpearmanRhoCDF**, and **StatsInvSpearmanCDF**.

StatsRayleighCDF

StatsRayleighCDF(*x* [, *s* [, *m*]])

The StatsRayleighCDF function returns the Rayleigh cumulative distribution function

$$F(x;\sigma,\mu) = 1 - \exp\left(-\frac{(x-\mu)^2}{2\sigma^2}\right), \qquad \sigma > 0, x > \mu.$$

with defaults *s*=1 and *m*=0. It returns NaN for $s \le 0$ and zero for $x \le m$.

See Also

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

StatsRayleighPDF

StatsRayleighPDF(*x* [, *s* [, *m*]])

The StatsRayleighPDF function returns the Rayleigh probability distribution function

$$f(x;\sigma,\mu) = \frac{x-\mu}{\sigma^2}\exp\left(-\frac{(x-\mu)^2}{2\sigma^2}\right), \qquad \sigma > 0, x > \mu.$$

with defaults *s*=1 and *m*=0. It returns NaN for $s \le 0$ and zero for $x \le m$.

See Also

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

StatsRectangularCDF

StatsRectangularCDF(*x*, *a*, *b*)

The StatsRectangularCDF function returns the rectangular (uniform) cumulative distribution function

$$F(x,a,b) = \begin{cases} 0 & x \le a \\ \dfrac{x-a}{b-a} & a \le x \le b \\ 1 & x \ge b \end{cases}$$

where $a < b$.

See Also

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

StatsRectangularPDF

StatsRectangularPDF(*x*, *a*, *b*)

The StatsRectangularPDF function returns the rectangular (uniform) probability distribution function

$$f(x;a,b) = \begin{cases} \dfrac{1}{b-a} & a \le x \le b \\ 0 & \textit{otherwise} \end{cases}$$