

$$DFp = \sum_{j=1}^W (n_j - 2)$$

$$DFt = \sum_{j=1}^W n_j - 2$$

Here W is the number of Y-waves and $N = \sum_{j=1}^W n_j$ is the total number of data points in all Y-waves.

The test statistic F for equality of slopes is given by:

$$F = \left(\frac{SSc - SS_p}{numWaves - 1} \right) / \frac{SS_p}{DFp}.$$

F_c is the corresponding critical value.

Output is to the `W_LinearRegressionMC` wave in the current data folder.

`V_flag` is set to -1 for any error and to zero otherwise.

`S_waveNames` is set to a semicolon-separated list of the names of the waves created by the operation.

References

See, in particular, Chapter 18 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; `curvefit`.

StatsLogisticCDF

StatsLogisticCDF(x, a, b)

The StatsLogisticCDF function returns the logistic cumulative distribution function

$$F(x; a, b) = \frac{1}{1 + \exp\left(-\frac{x-a}{b}\right)}.$$

where the scale parameter $b > 0$ and the shape parameter is a .

See Also

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

StatsLogisticPDF

StatsLogisticPDF(x, a, b)

The StatsLogisticPDF function returns the logistic probability distribution function

$$f(x; a, b) = \frac{\exp\left(-\frac{x-a}{b}\right)}{b \left[1 + \exp\left(-\frac{x-a}{b}\right)\right]^2},$$