

R

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R² Created Jun 24, 2019 (14:32) by Vidhyadharan-ext, Vaishna

Definition

[Link](#) [Link](#)

Minitab: Coefficient of determination; indicates how much variation in the response is explained by the model. The higher the R², the better the model fits your data.

Label(s)

- [English](#)

random sample Created Jun 24, 2019 (14:32) by Vidhyadharan-ext, Vaishna , last modified Aug 18, 2023 (14:07) by GUENNOUNI, Nathalie

Definition

[Link](#) [Link](#)

ISO 3534: Sample which has been selected by a method of a random selection.

Label(s)

- [English](#)

random sample Created Jun 24, 2019 (14:32) by Vidhyadharan-ext, Vaishna , last modified Aug 18, 2023 (14:07) by GUENNOUNI, Nathalie

Definition

[Link](#) [Link](#)

ISO 3534: Sample which has been selected by a method of a random selection.

Label(s)

- [English](#)

Recovery Created Jun 14, 2019 (08:01) by Vidhyadharan-ext, Vaishna

Definition

[Link](#) [Link](#)

Guide EURACHEM: The fraction of analyte added to a test sample (fortified or spiked sample) prior to analysis, the unfortified and fortified samples.

Label(s)

- [English](#)

Reference material Created Jun 14, 2019 (08:02) by Vidhyadharan-ext, Vaishna

Definition

[Link](#) [Link](#)

Guide EURACHEM: Material or substance one or more of whose property values are sufficiently homogeneous and well established to be used for the calibration of an apparatus, the assessment of a measurement method, or for assigning values to materials.

Label(s)

- [English](#)

Reference value Created Jun 14, 2019 (08:02) by Vidhyadharan-ext, Vaishna

Definition

[Link](#) [Link](#)

MSA: Accepted value of an artifact, which requires an operational definition. Used as the surrogate for the true value.

Label(s)

- [English](#)

Regression Created Jun 14, 2019 (08:03) by Vidhyadharan-ext, Vaishna

Definition

[Link](#) [Link](#)

This term is used to describe a group of method that summarize the degree of association between one variable (or set of variables) and another variables (or set of variables). The most common statistical method used to do this is the least squares regression, which works by finding the "best curve" through the data that minimizes the sums of square residuals.

Label(s)

- [English](#)

Regression analysis Created Jun 18, 2019 (10:14) by Nupur PODDAR

Definition

[Link](#) [Link](#)

MSA: A statistical study of the relationship between two or more variables. A calculation to define the mathematical relationship between two or more variables.

Label(s)

- [English](#)

Relative standard deviation Created Jun 18, 2019 (10:15) by Nupur PODDAR , last modified Aug 18, 2023 (07:17) by GUENNOUNI, Nathalie

Definition

[Link](#) [Link](#)

Le coefficient de variation CV est un nombre sans dimension, exprimé en %, donnant le pourcentage que représente l'écart-type sur la moyenne. Le CV a pour intérêt de permettre la comparaison entre les fluctuations relatives de variables de natures différentes.

Label(s)

- [French](#)

Repeatability Created Jun 18, 2019 (10:16) by Nupur PODDAR

Definition

[Link](#) [Link](#)

ISO 5725: Fidélité sous des conditions de répétabilité

Label(s)

- [French](#)

Repeatability Created Aug 18, 2023 (14:20) by Nupur PODDAR , last modified Aug 18, 2023 (14:20) by GUENNOUNI, Nathalie

Definition

[Link](#) [Link](#)

ICH: Repeatability expresses the precision under the same operating conditions over a short interval of time. It is also termed intra-assay precision.

MSA: Variation in measurements obtained with one measuring instrument when used several times by an appraiser while measuring a characteristic on the same part. The variation in successive (Short term) trials under fixed and defined conditions of measurement.

Label(s)

- [English](#)

Repeatability limit Created Aug 18, 2023 (13:21) by Nupur PODDAR , last modified Aug 18, 2023 (13:21) by GUENNOUNI, Nathalie

Definition

[Link](#) [Link](#)

ISO 3534-2:2006: r

repeatability critical difference for a specified probability of 95 %

Label(s)

- [English](#)

Replicates Created Jun 18, 2019 (10:20) by Nupur PODDAR

Definition

[Link](#) [Link](#)

6 sigma: Repeated experimental trials that are made under identical factor levels and in similar conditions.

Label(s)

- [English](#)

Replication Created Jun 18, 2019 (10:21) by Nupur PODDAR

Definition

[Link](#) [Link](#)

TS 16949: Multiple test trials under repeatability (identical) conditions.

Label(s)

- [English](#)

Reproducibility Created Aug 18, 2023 (13:50) by Nupur PODDAR , last modified Aug 18, 2023 (13:56) by GUENNOUNI, Nathalie

Definition

[Link](#) [Link](#)

ICH: It expresses the precision between laboratories (collaborative studies, usually applied to standardization of methodology).

MSA: Variation in the average of the measurements made by different appraisers using the same gage when measuring a characteristic on one part.

Label(s)

- [English](#)

Reproducibility limit Created Aug 18, 2023 (13:58) by Nupur PODDAR , last modified Aug 18, 2023 (13:58) by GUENNOUNI, Nathalie

Definition

[Link](#) [Link](#)

ISO 5725: Ecart-type maximal (au niveau de confiance de 95%) entre deux résultats obtenus sur un échantillon commun par deux opérateurs ou deux laboratoires (au moins) selon des conditions de reproductibilité.

Label(s)

- [French](#)

Residual value Created Jun 18, 2019 (10:29) by Nupur PODDAR , last modified Aug 18, 2023 (14:02) by GUENNOUNI, Nathalie

Definition

[Link](#) [Link](#)

A residual value is calculated by taking the difference between the predicted value and the actual value. It can also be used to highlight points of influence (see bias, leverage and outliers).

Label(s)

- [English](#)

Residuals Created Jun 18, 2019 (10:29) by Nupur PODDAR , last modified Aug 18, 2023 (13:49) by GUENNOUNI, Nathalie

Definition

[Link](#) [Link](#)

Minitab: The difference between the observed values and predicted or fitted values (data minus fits). This part of the observation is not explained by the fitted model.

Label(s)

- [English](#)

Result of a measurement Created Jun 18, 2019 (10:30) by Nupur PODDAR , last modified Aug 18, 2023 (14:20) by GUENNOUNI, Nathalie

Definition

[Link](#) [Link](#)

ISO 5725: Valeur d'un caractère obtenue par l'application d'une méthode d'essai spécifiée

Label(s)

- [French](#)
- [English](#)

Result of a measurement Created Jun 18, 2019 (10:30) by Nupur PODDAR , last modified Aug 18, 2023 (14:20) by GUENNOUNI, Nathalie

Definition

[Link](#) [Link](#)

Guide EURACHEM: Value attributed to a measurand, obtained by measurement.

Label(s)

- [French](#)
- [English](#)

Robustness Created Jun 18, 2019 (10:31) by Nupur PODDAR , last modified Aug 18, 2023 (14:20) by GUENNOUNI, Nathalie

Definition

[Link](#) [Link](#)

ISO 5725: Mesure de sa capacité à ne pas être affectée par des petites variations des conditions opératoires.

Label(s)

- [English](#)

Robustness Created Jun 18, 2019 (10:31) by Nupur PODDAR , last modified Aug 18, 2023 (14:20) by GUENNOUNI, Nathalie

Definition

[Link](#) [Link](#)

ICH: It is a measure of its capacity to remain unaffected by small, but deliberate variations in method parameters and provides an indication of its reliability during normal usage.

Label(s)

- [English](#)

Range Created Aug 18, 2023 (14:09) , last modified Aug 18, 2023 (14:20) by GUENNOUNI, Nathalie

Definition

[Link](#) [Link](#)

ICH: It is the interval between the upper and lower concentration of analyte in the sample (including these concentrations), for which it has been demonstrated that the analytical procedure has a suitable level of precision, accuracy and linearity.

6 sigma: The difference between the largest and smallest observations in a data set.

Label(s)

- [English](#)