

## STATISTICAL CALCULATIONS

$$\text{Mean: } \bar{x} = \frac{\sum_{i=1}^n x_i}{n}$$

$$\text{Variance: } S^2 = \frac{\sum_{i=1}^n (x_i - \bar{x})^2}{n-1}$$

$$\text{Standard deviation (SD): } S = \sqrt{\frac{\sum_{i=1}^n (x_i - \bar{x})^2}{n-1}}$$

$$\text{Relative standard deviation (RSD): } RSD = \frac{S}{\bar{x}} 100$$

$$\text{Confidence interval} = \bar{x} \pm \frac{tS}{\sqrt{n}}$$

where **n** is the number of data in the data set; **n-1** is the degrees of freedom;  $x_i$  is the *i*-th datum in the data set; **t** is the Student's **t** value and it depends on the degrees of freedom and the confidence level selected. In the case of 95% confidence level the **t** values for different degrees of freedom (**n-1**) are tabulated in the following table:

<b>n-1</b>	1	2	3	4	5	6	7	8	9	10	11	12	13	14
<b>t</b>	12.7	4.30	3.18	2.78	2.57	2.45	2.36	2.31	2.26	2.23	2.20	2.18	2.16	2.14
<b>n-1</b>	15	16	17	18	19	20	22	25	30	40	50	60	120	∞
<b>t</b>	2.13	2.12	2.11	2.10	2.09	2.09	2.07	2.06	2.04	2.02	2.01	2.00	1.98	1.96

Comparison of the experimental mean with the true value using the Student's **t** test

If  $|\bar{x} - x_r| \leq \frac{tS}{\sqrt{n}}$  there is no statistically significant difference between the measured value and the certified value.

If  $|\bar{x} - x_r| > \frac{tS}{\sqrt{n}}$  TRUE the measured value is statistically significant difference from the true value.

# Standard Statistical Calculations

**D.R. Cox**



## **Standard Statistical Calculations:**

## **Standard Statistical Calculations** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Standard Statistical Calculations**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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