

If q is any function of several variables $x, \dots, z$, then

$$\delta q = \sqrt{\left(\frac{\partial q}{\partial x} \delta x\right)^2 + \dots + \left(\frac{\partial q}{\partial z} \delta z\right)^2} \quad (\text{p. 75})$$

(for independent random errors).

Statistical Definitions (Chapter 4)

If $x_1, \dots, x_N$ denote N separate measurements of one quantity x , then we define:

$$\bar{x} = \frac{1}{N} \sum_{i=1}^N x_i = \text{mean}; \quad (\text{p. 98})$$

$$\sigma_x = \sqrt{\frac{1}{N-1} \sum (x_i - \bar{x})^2} = \text{standard deviation, or SD} \quad (\text{p. 100})$$

$$\sigma_{\bar{x}} = \frac{\sigma_x}{\sqrt{N}} = \text{standard deviation of mean, or SDOM.} \quad (\text{p. 102})$$

The Normal Distribution (Chapter 5)

For any limiting distribution $f(x)$ for measurement of a continuous variable x :

$$f(x) dx = \text{probability that any one measurement will give an answer between } x \text{ and } x + dx; \quad (\text{p. 128})$$

$$\int_a^b f(x) dx = \text{probability that any one measurement will give an answer between } x = a \text{ and } x = b; \quad (\text{p. 128})$$

$$\int_{-\infty}^{\infty} f(x) dx = 1 \text{ is the normalization condition.} \quad (\text{p. 128})$$

The Gauss or normal distribution is

$$G_{X,\sigma}(x) = \frac{1}{\sigma\sqrt{2\pi}} e^{-(x-X)^2/2\sigma^2}, \quad (\text{p. 133})$$

where

- X = center of distribution = true value of x
= mean after many measurements.
- σ = width of distribution
= standard deviation after many measurements.

The probability of a measurement within t standard deviations of X is

$$\text{Prob}(\text{within } t\sigma) = \frac{1}{\sqrt{2\pi}} \int_{-t}^t e^{-z^2/2} dz = \text{normal error integral}; \quad (\text{p. 136})$$

in particular

$$\text{Prob}(\text{within } 1\sigma) = 68\%.$$

Solution Manual Introduction To Error Analysis

Henri Prade, Gilles Richard



Solution Manual Introduction To Error Analysis:

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A Manual of Sugar Analysis J. H. Tucker, 1881

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contributions All chapters have benefited of a thorough peer review process

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