

Engineering Formula Sheet

Statistics

Mean

$$\mu = \frac{\sum x_i}{n}$$

μ = mean value
 $\sum x_i$ = sum of all data values (x_1, x_2, x_3, \dots)
 n = number of data values

Standard Deviation

$$\sigma = \sqrt{\frac{\sum (x_i - \mu)^2}{n}}$$

σ = standard deviation
 x_i = individual data value (x_1, x_2, x_3, \dots)
 μ = mean value
 n = number of data values

Probability

Frequency

$$f_x = \frac{n_x}{n}$$

$$P_x = \frac{f_x}{f_a}$$

f_x = relative frequency of outcome x
 n_x = number of events with outcome x
 n = total number of events
 P_x = probability of outcome x
 f_a = frequency of all events

Binomial Probability (order doesn't matter)

$$P_k = \frac{n! (p^k) (q^{n-k})}{k!(n-k)!}$$

P_k = binomial probability of k successes in n trials
 p = probability of a success
 $q = 1 - p$ = probability of failure
 k = number of successes
 n = number of trials

Mode

Place data in ascending order.
 Mode = most frequently occurring value

If two values occur at the maximum frequency the data set is *bimodal*.
 If three or more values occur at the maximum frequency the data set is *multi-modal*.

Median

Place data in ascending order.
 If n is odd, median = central value
 If n is even, median = mean of two central values

n = number of data values

Range

$$\text{Range} = x_{\max} - x_{\min}$$

x_{\max} = maximum data value
 x_{\min} = minimum data value

Independent Events

$$P(A \text{ and } B \text{ and } C) = P_A P_B P_C$$

$P(A \text{ and } B \text{ and } C)$ = probability of independent events A and B and C occurring in sequence
 P_A = probability of event A

Mutually Exclusive Events

$$P(A \text{ or } B) = P_A + P_B$$

$P(A \text{ or } B)$ = probability of either mutually exclusive event A or B occurring in a trial
 P_A = probability of event A
 $\sum x_i$ = sum of all data values (x_1, x_2, x_3, \dots)
 n = number of data values

Conditional Probability

$$P(A|D) = \frac{P(A) \cdot P(D|A)}{P(A) \cdot P(D|A) + P(\sim A) \cdot P(D|\sim A)}$$

$P(A|D)$ = probability of event A given event D
 $P(A)$ = probability of event A occurring
 $P(\sim A)$ = probability of event A not occurring
 $P(D|\sim A)$ = probability of event D given event A did not occur

Structural Engineering Formula Sheet

Xiang Xie



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web the standard magnetocaloric material gd for near room temperature applications the rare earth metal gd is the benchmark magnetic refrigerant material it exhibits excellent magnetocaloric properties that are difficult to improve upon magnetocaloric material calorivac vac - Sep 22 2023

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