

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

Mode

Place data in ascending order.

Mode = most frequently occurring value

If two values occur at the maximum frequency the data set is *bi-modal*.

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

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

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

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