

# Engineering Formula Sheet

## Statistics

### Mean

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

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

### Standard Deviation

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

$\sigma$  = standard deviation  
 $x_i$  = individual data value ( $x_1, x_2, x_3, \dots$ )  
 $\mu$  = 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

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

**John Percival Davies**



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