

# 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 *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

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

# Engineering Mechanics Statics Cheat Sheet

**Tobias Bleicker**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

## **Engineering Mechanics Statics Cheat Sheet:**

*Statics - Formulas and Problems* Dietmar Gross, Wolfgang Ehlers, Peter Wriggers, Jörg Schröder, Ralf Müller, 2016-11-25  
This book contains the most important formulas and more than 160 completely solved problems from Statics. It provides engineering students material to improve their skills and helps to gain experience in solving engineering problems. Particular emphasis is placed on finding the solution path and formulating the basic equations. Topics include Equilibrium, Center of Gravity, Center of Mass, Centroids, Support Reactions, Trusses, Beams, Frames, Arches, Cables, Work and Potential Energy, Static and Kinetic Friction, Moments of Inertia. *Mechanics of Materials For Dummies* James H. Allen, III, 2011-06-15  
Your ticket to excelling in mechanics of materials. With roots in physics and mathematics, engineering mechanics is the basis of all the mechanical sciences: civil engineering, materials science, and engineering mechanical engineering and aeronautical and aerospace engineering. Tracking a typical undergraduate course, *Mechanics of Materials For Dummies* gives you a thorough introduction to this foundational subject. You'll get clear, plain English explanations of all the topics covered, including principles of equilibrium, geometric compatibility, and material behavior; stress and its relation to force and movement; strain and its relation to displacement; elasticity and plasticity; fatigue and fracture; failure modes; application to simple engineering structures; and more. Tracks to a course that is a prerequisite for most engineering majors. Covers key mechanics concepts, summaries of useful equations, and helpful tips. From geometric principles to solving complex equations, *Mechanics of Materials For Dummies* is an invaluable resource for engineering students. *Statics* Meriam, J.L. (James L.), L. Glenn Kraige, 2008  
Over the past 50 years, Meriam Kraige's *Engineering Mechanics Statics* has established a highly respected tradition of excellence, a tradition that emphasizes accuracy, rigor, clarity, and applications. Now in a Sixth Edition, this classic text builds on these strengths, adding a comprehensive course management system, Wiley Plus, to the text, including an e-text, homework management, animations of concepts, and additional teaching and learning resources. New sample problems, new homework problems, and updates to content make the book more accessible. The Sixth Edition continues to provide a wide variety of high-quality problems that are known for their accuracy, realism, applications, and variety, motivating students to learn and develop their problem-solving skills. To build necessary visualization and problem-solving skills, the Sixth Edition continues to offer comprehensive coverage of drawing free-body diagrams, the most important skill needed to solve mechanics problems. **Engineering Mechanics Statics And Dynamics** S. Rajasekaran, 2009-11-01  
Explains the fundamental concepts and principles underlying the subject, illustrates the application of numerical methods to solve engineering problems with mathematical models, and introduces students to the use of computer applications to solve problems. A continuous step-by-step build-up of the subject makes the book very student-friendly. All topics and sequentially coherent subtopics are carefully organized and explained distinctly within each chapter. An abundance of solved examples is provided to illustrate all phases of the topic under consideration. All chapters include several spreadsheet problems for

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Meriam's Engineering Mechanics James L. Meriam, L. Glenn Kraige, J. N. Bolton, L. G. Kraige, 2020-03-17 Known for its accuracy clarity and dependability Meriam Kraige and Bolton's *Engineering Mechanics Statics 9th Edition* has provided a solid foundation of mechanics principles for more than 60 years This text continues to help students develop their problem solving skills with an extensive variety of engaging problems related to engineering design In addition to new homework problems the text includes a number of helpful sample problems To help students build necessary visualization and problem solving skills the text strongly emphasizes drawing free body diagrams one of the most important skills needed to solve mechanics problems      *Engineering Mechanics* Anthony Bedford, A. Bedford, Wallace L. Fowler, 2002 For core introductory statics and dynamics courses found in mechanical civil aeronautical or engineering mechanics departments      **Engineering Mechanics: Statics, SI Edition** Russell C. Hibbeler, 2016-05-18 The full text downloaded to your computer With eBooks you can search for key concepts words and phrases make highlights and notes as you study share your notes with friends eBooks

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**Student Study Guide to "Engineering Mechanics: Statics 10th Edition"** Russell C. Hibbeler, 2003-11 The problems in this workbook are arranged in the same order as those presented in the textbook The key equations which stress the important fundamentals of the problem solution must be supplied in the space provided All answers are given at the back of the book

*Engineering Mechanics: Statics and Strength of Materials* Robert D. Snyder, Edward Ford Byars, 1973

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