



## Statics

### Review of Vectors

#### Definitions

- **Scalar:** A real number that can completely describe a physical quantity  
 EX: Mass of a person is 200 lbs
- **Vector:** Direction and magnitude are needed to completely describe a vector quantity  
 EX: The beach is located 30 miles south of your home  
 - Both the magnitude and direction must be equal for two vector quantities to be equal  
 - Typically denoted in boldface or with an arrow over the symbol
- **Unit Vector:** Any vector that has a magnitude of one

#### Review of Vector Mathematics

- **Vector Addition:** For two vectors,  $R$  and  $S$ , the sum is vector  $T = R + S$ , from the tail of  $R$  to the head of  $S$ , when  $R$  and  $S$  are placed head to tail  
 - Known as the triangle rule  
 - Vector addition is both commutative and associative
- **Products of Scalars and Vectors:** The product,  $aR$ , of a scalar,  $a$ , and a vector,  $R$ , is change in the magnitude, denoted by  $|R|$ , and direction (if the scalar is negative) of the vector  
 EX:  $4R$  has the same direction and four times the magnitude of  $R$   
 EX:  $(1/2)R$  has the same direction and half the magnitude of  $R$   
 EX:  $-R$  or  $(-1)R$  has the same magnitude but opposite direction of  $R$   
 - For two scalars,  $a$  and  $v$ , and two vectors,  $R$  and  $S$ :  
 •  $a(vR) = (av)R$   
 •  $(a + b)R = aR + bR$   
 •  $a(R + S) = aR + aS$
- **Vector Subtraction:** For two vectors,  $R$  and  $S$ , the difference,  $R - S$ , is simply the sum of  $R$  and  $(-S)$   
 - Converting to a Unit Vector: Divide a vector by its magnitude  
 - Dot Product:  $\theta$  is the angle between  $R$  and  $S$  when they are placed tail to tail  
 •  $R \cdot S = (R)(S) \cos \theta$   
 •  $R \cdot S = S \cdot R$   
 •  $a(R \cdot S) = (aR) \cdot S = R \cdot (aS)$   
 •  $T \cdot (R + S) = T \cdot R + T \cdot S$   
 - Dot product of two nonzero vectors is zero if and only if the vectors are perpendicular
- **Cross Product:**  $e$  is the unit vector that is perpendicular to both  $R$  and  $S$   
 •  $R \times S = (RS) \sin \theta e$   
 •  $a(R \times S) = (aR) \times S = R \times (aS)$   
 •  $T \cdot (R \times S) = T \cdot R \times S$

#### Components of Vectors

- A vector,  $R$ , can be written as  $R = R_x i + R_y j + R_z k$  where  $R_x$ ,  $R_y$ , and  $R_z$  are the scalar components of  $R$ , and  $i$ ,  $j$ , and  $k$  are the unit vectors that point in the positive  $x$ -axis,  $y$ -axis, and  $z$ -axis directions, respectively
- The magnitude of  $R$  is  $|R| = \sqrt{R_x^2 + R_y^2 + R_z^2}$
- **Vector Mathematics:**  
 •  $R + S = (R_x + S_x)i + (R_y + S_y)j + (R_z + S_z)k$   
 •  $aR = aR_x i + aR_y j + aR_z k$   
 - The position vector from point  $M$  to point  $N$  is  
 $r_{MN} = (x_n - x_m)i + (y_n - y_m)j + (z_n - z_m)k$
- **Direction Cosines:** Components of the unit vector with the same direction as the vector,  $R$ , and are given by  $\cos \theta_x = \frac{R_x}{|R|}$ ,  $\cos \theta_y = \frac{R_y}{|R|}$ , and  $\cos \theta_z = \frac{R_z}{|R|}$   
 •  $\theta_x$ ,  $\theta_y$ , and  $\theta_z$  are the angles between the vector and positive  $x$ -,  $y$ -, and  $z$ -axis, respectively  
 •  $R \cdot S = R_x S_x + R_y S_y + R_z S_z$
- $R \cdot S = \begin{vmatrix} i & j & k \\ R_x & R_y & R_z \\ S_x & S_y & S_z \end{vmatrix} = (R_x S_y - R_y S_x)i - (R_x S_z - R_z S_x)j + (R_y S_z - R_z S_y)k$
- **Mixed Triple Product:**  $R \cdot (S \times T) = \begin{vmatrix} R_x & R_y & R_z \\ S_x & S_y & S_z \\ T_x & T_y & T_z \end{vmatrix}$

## Forces

#### Definitions

- **Line of Action:** Straight line collinear with the vector representing a force
- **Systems of Forces:** A set of forces  
 • Coplanar or two-dimensional if the system lies in the same plane; otherwise the system is three-dimensional  
 • Concurrent if the lines of action intersect at a point  
 • Parallel if the lines of action are parallel
- **External Forces:** Forces exerted by a different object
- **Internal Forces:** Forces felt by a given object by another part of the same object
- **Equilibrium:** Unchanging state or a state of balance  
 • For an object in equilibrium, the sum of external forces is zero

#### Types of Forces

- **Gravitation Force:** Force exerted by the gravity of earth; also known as weight,  $W$   
 •  $|W| = mg$ , where  $m$  is the mass of the object and  $g$  is the acceleration due to gravity (9.81 m/s<sup>2</sup> or 32.2 ft/s<sup>2</sup>)
- **Contact Force:** Force that results from the contact between objects  
 • Two components: Normal force and friction force  
 • Normal force acts perpendicular to the point of contact between two surfaces  
 • Friction force acts parallel to the point of contact between two surfaces
- **Ropes and Cables:** Force applied on the object is always in tension, that is, pulling on the object connected to the rope or cable
- **Springs:**  
 • When a spring is extended to a length greater than its length when its ends are free, the force on the object connected to the spring is tensile  
 • When a spring is compressed to a length less than its length when its ends are free, the force on the object connected to the spring is compressive, that is, pushing on the object  
 • Magnitude is given by  $|F| = F = k|l - l_0|$ , where  $k$  is the spring constant,  $l$  is the length of the spring, and  $l_0$  is the length of the spring when its ends are free

#### Free-Body Diagram

- A diagram that shows the external forces acting on an object that has been isolated from its surroundings
- The following steps are used to draw a free-body diagram:  
 1. Determine the object that a free-body diagram is needed for  
 2. Make a sketch of the object separated from its surroundings  
 3. Use vectors to represent the external forces acting on the object

#### Moments

- **Magnitude of Moment:**  $M = DF$ , where  $F$  is the force and  $D$  is the perpendicular distance from the line of action of a force to a point about which the force is said to cause a rotation  
 • If the force is in components, the magnitude of the moment is the sum of moments of the components
- Counterclockwise moments are considered positive; clockwise moments are considered negative

#### Couples

- Two forces that have the same magnitude, opposite directions, and different lines of action  
 • Exerts the same moment about any point  
 • Magnitude of moment due to couple is  $M = DF$ , where  $D$  is the perpendicular distance between the lines of action of the forces and  $F$  is the force

## Force & Moment Systems Equivalent Systems

- Two systems are equivalent if (1) the sum of forces are equal and (2) the sum of moments about any point are equal
- Every system can be represented by a single force at a given point and a single couple

#### Equilibrium

- A force and moment system is in equilibrium if (1) the sum of forces is equal to zero and (2) the sum of moments about any point is equal to zero  
 - Typically, this is expressed as:  $\sum F_x = 0$ ,  $\sum F_y = 0$ , and  $\sum M = 0$   
 - In three dimension, the equilibrium equations are:  $\sum F_x = 0$ ,  $\sum F_y = 0$ ,  $\sum F_z = 0$ ,  $\sum M_x = 0$ ,  $\sum M_y = 0$ , and  $\sum M_z = 0$

#### Supports

- **Reactions:** Forces and couples exerted on an object by its supports
- Supports are typically idealized to be represented by one of the conventional two-dimensional supports as shown below



Support: Rope, cable, or spring  
 Reaction: Collinear force



Support: Contact with smooth surface  
 Reaction: Force normal to supporting surface



Support: Contact with rough surface  
 Reaction: Two force components



Support: Pin  
 Reaction: Two force components



Support: Roller  
 Reaction: Force normal to supporting surface



Support: Constrained pin or slider  
 Reaction: Normal force



Support: Fixed, built-in  
 Reaction: Two force & one couple component

# Engineering Formulas

**Raffaela Di Napoli**



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## **Table of Contents Engineering Formulas**

1. Understanding the eBook Engineering Formulas
  - The Rise of Digital Reading Engineering Formulas
  - Advantages of eBooks Over Traditional Books
2. Identifying Engineering Formulas
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Engineering Formulas
  - User-Friendly Interface
4. Exploring eBook Recommendations from Engineering Formulas
  - Personalized Recommendations
  - Engineering Formulas User Reviews and Ratings
  - Engineering Formulas and Bestseller Lists
5. Accessing Engineering Formulas Free and Paid eBooks
  - Engineering Formulas Public Domain eBooks
  - Engineering Formulas eBook Subscription Services
  - Engineering Formulas Budget-Friendly Options
6. Navigating Engineering Formulas eBook Formats

- ePub, PDF, MOBI, and More
  - Engineering Formulas Compatibility with Devices
  - Engineering Formulas Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Engineering Formulas
    - Highlighting and Note-Taking Engineering Formulas
    - Interactive Elements Engineering Formulas
  8. Staying Engaged with Engineering Formulas
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Engineering Formulas
  9. Balancing eBooks and Physical Books Engineering Formulas
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Engineering Formulas
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Engineering Formulas
    - Setting Reading Goals Engineering Formulas
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Engineering Formulas
    - Fact-Checking eBook Content of Engineering Formulas
    - Distinguishing Credible Sources
  13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks
  14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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menghubungkan tokoh idola dengan teladan rasul rasul allah swt 4 5 mencontohkan makna iman kepada rasul allah 4 5 1  
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