



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: θ 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
 • $R \times S = |R||S| \sin \theta e$
 • $a(R \times S) = (aR) \times S = R \times (aS)$
 • $T \cdot (R \times S) = T \cdot R \times S$

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 $\cos \theta_z = \frac{R_z}{|R|}$
 • θ_x , θ_y , and θ_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/s² or 32.2 ft/s²)
- **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

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