



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 branch 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, $\mathbf{A}$ and $\mathbf{B}$, the sum is vector $\mathbf{C} = \mathbf{A} + \mathbf{B}$, from the tail of $\mathbf{A}$ to the head of $\mathbf{B}$, when $\mathbf{A}$ and $\mathbf{B}$ are placed head to tail.
 - Known as the triangle rule.
 - Vector addition is both commutative and associative.
- Products of Scalars and Vectors:** The product, $a\mathbf{B}$, of a scalar, a , and a vector, $\mathbf{B}$, is change in the magnitude, denoted by $|\mathbf{B}|$, and direction of the vector is dependent on the scalar.
 - [Ex: $4\mathbf{B}$ has the same direction and four times the magnitude of $\mathbf{B}$.]
 - [Ex: $(-1/2)\mathbf{B}$ has the same direction and half the magnitude of $\mathbf{B}$.]
 - [Ex: $-\mathbf{B} = (-1)\mathbf{B}$ has the same magnitude but opposite direction of $\mathbf{B}$.]
 - For two scalars, a and b , and two vectors, $\mathbf{B}$ and $\mathbf{C}$:
 - $a(b\mathbf{B}) = (ab)\mathbf{B}$
 - $(a + b)\mathbf{B} = a\mathbf{B} + b\mathbf{B}$
 - $a(b\mathbf{B} + \mathbf{C}) = a\mathbf{B} + a\mathbf{C}$
- Vector Subtraction:** For two vectors, $\mathbf{A}$ and $\mathbf{B}$, the difference, $\mathbf{A} - \mathbf{B}$, is simply the sum of $\mathbf{A} + (-\mathbf{B})$.
 - Converting to a Unit Vector: Divide a vector by its magnitude.
 - Dot Product:** θ is the angle between $\mathbf{A}$ and $\mathbf{B}$ when they are placed tail to tail.
 - $\mathbf{A} \cdot \mathbf{B} = |\mathbf{A}||\mathbf{B}|\cos\theta$
 - $\mathbf{A} \cdot \mathbf{A} = |\mathbf{A}|^2$
 - $a\mathbf{B} \cdot \mathbf{B} = (a\mathbf{B}) \cdot \mathbf{B} = \mathbf{B} \cdot (a\mathbf{B})$
 - $\mathbf{A} \cdot (\mathbf{A} + \mathbf{B}) = \mathbf{A} \cdot \mathbf{A} + \mathbf{A} \cdot \mathbf{B}$
 - The product of two nonzero vectors is zero if and only if the vectors are perpendicular.
 - Cross Product:** $\mathbf{C}$ is the unit vector that is perpendicular to both $\mathbf{A}$ and $\mathbf{B}$.
 - $\mathbf{A} \times \mathbf{B} = |\mathbf{A}||\mathbf{B}|\sin\theta$
 - $a\mathbf{B} \times \mathbf{B} = (a\mathbf{B}) \times \mathbf{B} = \mathbf{B} \times (a\mathbf{B})$
 - $\mathbf{A} \times (\mathbf{A} + \mathbf{B}) = \mathbf{A} \times \mathbf{A} + \mathbf{A} \times \mathbf{B}$

Components of Vectors

- A vector, $\mathbf{B}$, can be written as: $\mathbf{B} = B_x\mathbf{i} + B_y\mathbf{j} + B_z\mathbf{k}$, where B_x , B_y , and B_z are the scalar components of $\mathbf{B}$, and $\mathbf{i}$, $\mathbf{j}$, and $\mathbf{k}$ are the unit vectors that point in the positive x -axis, y -axis, and z -axis directions, respectively.
- The magnitude of $\mathbf{B}$ is $|\mathbf{B}| = \sqrt{B_x^2 + B_y^2 + B_z^2}$.
- Vector Mathematics:**
 - $\mathbf{B} + \mathbf{C} = (B_x + C_x)\mathbf{i} + (B_y + C_y)\mathbf{j} + (B_z + C_z)\mathbf{k}$
 - $a\mathbf{B} = aB_x\mathbf{i} + aB_y\mathbf{j} + aB_z\mathbf{k}$
 - The position vector from point M to point N is $\mathbf{r}_{MN} = (x_N - x_M)\mathbf{i} + (y_N - y_M)\mathbf{j} + (z_N - z_M)\mathbf{k}$
- Direction Cosine Components:** Components of the unit vector with the same direction as the vector, $\mathbf{B}$, and are given by $\cos\theta_x = \frac{B_x}{|\mathbf{B}|}$, $\cos\theta_y = \frac{B_y}{|\mathbf{B}|}$, and $\cos\theta_z = \frac{B_z}{|\mathbf{B}|}$.
 - θ_x , θ_y , and θ_z are the angles between the vector and positive x -, y -, and z -axis, respectively.
 - $\mathbf{B} \cdot \mathbf{B} = B_x B_x + B_y B_y + B_z B_z$
- $\mathbf{B} \cdot \mathbf{C} = \begin{vmatrix} \mathbf{i} & \mathbf{j} & \mathbf{k} \\ B_x & B_y & B_z \\ C_x & C_y & C_z \end{vmatrix} = (B_x C_y - B_y C_x)\mathbf{i} - (B_x C_z - B_z C_x)\mathbf{j} + (B_y C_z - B_z C_y)\mathbf{k}$
- Mixed Triple Product:** $\mathbf{B} \cdot (\mathbf{C} \times \mathbf{F}) = \begin{vmatrix} B_x & B_y & B_z \\ C_x & C_y & C_z \\ F_x & F_y & F_z \end{vmatrix}$

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

- Gravitational Forces:** Force exerted by the gravity of earth, also known as weight, $\mathbf{W}$.
 - $|\mathbf{W}| = mg$, 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 Forces:** 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 $|\mathbf{F}| = F = k(\ell - \ell_0)$, 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:
 - Determine the object that a free-body diagram is needed for.
 - Make a sketch of the object separated from its surroundings.
 - 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 compression, the magnitude of the moment is the sum of moments of the components.
- Counter-clockwise 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 dimensions, 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: Roller, 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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R Barnett



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