



ENGINEERING MECHANICS: STATICS



MECHANICS - deals with the study of the bodies and systems and the forces acting on them.

DIVIDED INTO TWO:

- 1) **STATICS** - deals with bodies at rest or in equilibrium.
- 2) **DYNAMICS** - deals with moving bodies.

FURTHER DIVIDED INTO TWO:

- a) **KINEMATICS** - without reference to the forces causing the motion
- b) **KINETICS** - with reference to the forces causing the motion

PHYSICAL QUANTITIES

- 1) **SCALAR QUANTITY** - has magnitude only
- 2) **VECTOR QUANTITY** - has magnitude as well as direction

VECTOR OPERATIONS

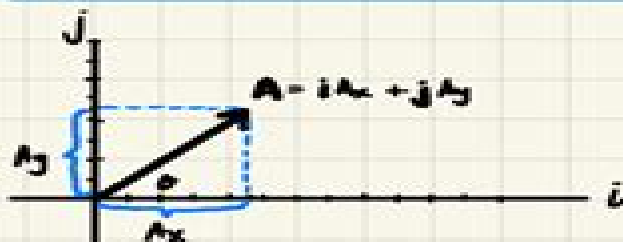
1. Addition: $A + B = B + A = S$
2. Subtraction: $A - B = A + (-B)$
3. Multiplication:

- Dot Product: $A \cdot B = AB \cos \theta$
- Cross Product: $A \times B = a_2 AB \sin \theta$



to add A and B draw them head to tail.

VECTOR IN A PLANE (CARTESIAN)



The magnitude of vector A

$$|A| = \sqrt{A_x^2 + A_y^2}$$

The angle (θ) with the horizontal

$$\theta = \tan^{-1} \left(\frac{A_y}{A_x} \right)$$

Engineering Mechanics Statics Student Problems

Karin Nielsen-Saines



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