

# VECTOR CALCULUS

- Basis
- Vector differential Calculus (✓)
- \* Vector Integral Calculus

→ In general there are two types of quantities

- i) Vector quantity = Magnitude (Direction)
- ii) Scalar = only magnitude

$$\textcircled{1} \vec{A} = a_x \hat{i} + a_y \hat{j} + a_z \hat{k}$$

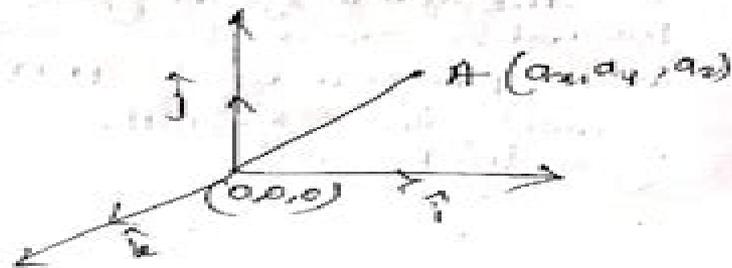
$$(a_x, a_y, a_z) = (1, 2, 3)$$

$$\vec{A} = \hat{i} + 2\hat{j} + 3\hat{k}$$

$$\text{if } (a_x, a_y, a_z) = (x, y, z)$$

$$\vec{A}(x, y, z) = x\hat{i} + y\hat{j} + z\hat{k}$$

→ Vector point function



$$\textcircled{2} \text{ Magnitude } = |\vec{A}| = \sqrt{a_x^2 + a_y^2 + a_z^2} = \pm \text{Value}$$

$$\textcircled{3} \text{ Unit Vector in direction of } \vec{A}$$

$$\hat{A} = \frac{\vec{A}}{|\vec{A}|}$$

$$\textcircled{4} \text{ product of Vector}$$

$$a) \text{ General product: } \vec{A}(a)$$

Vector applied on Scalar only mag. will change.

# Applications Of Vector Calculus In Engineering

**Adolphe Minet**



## **Applications Of Vector Calculus In Engineering:**

## Whispering the Strategies of Language: An Emotional Journey through **Applications Of Vector Calculus In Engineering**

In a digitally-driven world where screens reign great and immediate interaction drowns out the subtleties of language, the profound secrets and psychological subtleties hidden within phrases usually get unheard. However, situated within the pages of **Applications Of Vector Calculus In Engineering** a fascinating fictional value pulsating with natural emotions, lies an extraordinary quest waiting to be undertaken. Published by an experienced wordsmith, that charming opus invites readers on an introspective trip, delicately unraveling the veiled truths and profound influence resonating within the material of each and every word. Within the emotional depths of the poignant review, we shall embark upon a sincere exploration of the book is core themes, dissect their captivating writing style, and succumb to the strong resonance it evokes strong within the recesses of readers hearts.

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