

Unit Vector

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

Polygon Law of Vector addition



$$\vec{R} = \vec{A} + \vec{B} + \vec{C} + \vec{D} + \vec{E}$$

Vector addition

Graphical Method

Triangle Law



$$\vec{R} = \vec{A} + \vec{B}$$

Parallelogram Law



Analytical Method



$$R = \sqrt{A^2 + B^2 + 2AB\cos\theta}$$

$$\tan\alpha = \frac{B\sin\theta}{A + B\cos\theta}$$

Vector

Lami's Theorem



$$\frac{A}{\sin\alpha} = \frac{B}{\sin\beta} = \frac{C}{\sin\gamma}$$

Vector Subtraction



$$R = \sqrt{A^2 + B^2 - 2AB\cos\theta}$$

$$\tan\alpha = \frac{B\sin\theta}{A - B\cos\theta}$$

Components of Vector

(i) In 2-D



$$A_x = A\cos\theta$$

$$A_y = A\sin\theta$$

(ii) In 3-D



$$A_x = A\cos\alpha$$

$$A_y = A\cos\beta$$

$$A_z = A\cos\gamma$$

Scalar Product

$$\vec{A} \cdot \vec{B} = AB\cos\theta$$

Vector Product

$$\vec{A} \times \vec{B} = AB\sin\theta \hat{n}$$



by Umesh Rajoria

Study Guide Vector Addition

Umesh Dhande



Study Guide Vector Addition:

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Lou,2002-08

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Gordon,Raymond A. Serway,1990

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Serway,1986

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