

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 Subtraction



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

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

Vector addition

Graphical Method

Triangle Law



Parallelogram Law



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

Analytical Method



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

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

Vector

Components of vector

(i) In 2-D

$$Ax = A \cos \theta$$

$$Ay = A \sin \theta$$

(ii) In 3-D

$$Ax = A \cos \alpha$$

$$Ay = A \cos \beta$$

$$Az = A \cos \gamma$$

Lami's Theorem



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

Scalar Product

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

Vector Product

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



by

Umesh Rejoria

Study Guide Vector Addition

Marc Loudon, Jim Parise

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Table of Contents Study Guide Vector Addition

1. Understanding the eBook Study Guide Vector Addition
 - The Rise of Digital Reading Study Guide Vector Addition
 - Advantages of eBooks Over Traditional Books
2. Identifying Study Guide Vector Addition
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Study Guide Vector Addition
 - User-Friendly Interface
4. Exploring eBook Recommendations from Study Guide Vector Addition
 - Personalized Recommendations
 - Study Guide Vector Addition User Reviews and Ratings

- Study Guide Vector Addition and Bestseller Lists
- 5. Accessing Study Guide Vector Addition Free and Paid eBooks
 - Study Guide Vector Addition Public Domain eBooks
 - Study Guide Vector Addition eBook Subscription Services
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- 6. Navigating Study Guide Vector Addition eBook Formats
 - ePUB, PDF, MOBI, and More
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 - Study Guide Vector Addition Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Study Guide Vector Addition
 - Highlighting and Note-Taking Study Guide Vector Addition
 - Interactive Elements Study Guide Vector Addition
- 8. Staying Engaged with Study Guide Vector Addition
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Study Guide Vector Addition
- 9. Balancing eBooks and Physical Books Study Guide Vector Addition
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Study Guide Vector Addition
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Study Guide Vector Addition
 - Setting Reading Goals Study Guide Vector Addition
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Study Guide Vector Addition
 - Fact-Checking eBook Content of Study Guide Vector Addition
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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