

Chapter 2

P.2-1 (a) $\vec{a}_A = \frac{\vec{A}}{A} = \frac{\vec{a}_x + \vec{a}_y 2 - \vec{a}_z 3}{\sqrt{1^2 + 2^2 + (-3)^2}} = \frac{1}{\sqrt{14}} (\vec{a}_x + \vec{a}_y 2 - \vec{a}_z 3)$

(b) $|\vec{A} - \vec{B}| = |\vec{a}_x + \vec{a}_y 6 - \vec{a}_z 4| = \sqrt{1^2 + 6^2 + 4^2} = \sqrt{53}$

(c) $\vec{A} \cdot \vec{B} = 0 + 2(-4) + (-3) = -11$

(d) $\theta_{AB} = \cos^{-1}(\vec{A} \cdot \vec{B} / AB) = \cos^{-1}(-11 / \sqrt{14} \sqrt{17}) = 135.5^\circ$

(e) $\vec{A} \cdot \vec{a}_C = \vec{A} \cdot \frac{\vec{C}}{C} = \vec{A} \cdot \frac{1}{\sqrt{29}} (\vec{a}_x 5 - \vec{a}_z 2) = \frac{11}{\sqrt{29}}$

(f) $\vec{A} \times \vec{C} = -\vec{a}_x 4 - \vec{a}_y 13 - \vec{a}_z 10$

(g) $\vec{A} \cdot (\vec{B} \times \vec{C}) = (\vec{A} \times \vec{B}) \cdot \vec{C} = -42$

(h) $(\vec{A} \times \vec{B}) \times \vec{C} = \vec{B}(\vec{A} \cdot \vec{C}) - \vec{A}(\vec{C} \cdot \vec{B}) = \vec{a}_x 2 - \vec{a}_y 40 + \vec{a}_z 5$
 $\vec{A} \times (\vec{B} \times \vec{C}) = \vec{B}(\vec{A} \cdot \vec{C}) - \vec{C}(\vec{A} \cdot \vec{B}) = \vec{a}_x 33 + \vec{a}_y 44 - \vec{a}_z 11$

P.2-2 Position vectors of the three corners:

$\vec{OP}_1 = \vec{a}_y - \vec{a}_x 2$, $\vec{OP}_2 = \vec{a}_x 4 - \vec{a}_y - \vec{a}_z 3$, $\vec{OP}_3 = \vec{a}_x 6 + \vec{a}_y 2 + \vec{a}_z 5$

Vectors representing the three sides of the triangle:

$\vec{P}_1\vec{P}_2 = \vec{OP}_2 - \vec{OP}_1 = \vec{a}_x 4 - \vec{a}_z 3$, $\vec{P}_2\vec{P}_3 = \vec{a}_x 2 + \vec{a}_y + \vec{a}_z 8$, $\vec{P}_3\vec{P}_1 = -\vec{a}_x 6 - \vec{a}_y - \vec{a}_z$

(a) $\vec{P}_1\vec{P}_2 \cdot \vec{P}_2\vec{P}_3 = 0$. $\therefore \Delta P_1 P_2 P_3$ is a right triangle.

(b) Area of triangle = $\frac{1}{2} |\vec{P}_1\vec{P}_2 \times \vec{P}_2\vec{P}_3| = 17.1$

P.2-3



$\vec{D}_1 = \vec{B} + \vec{A}$, $\vec{D}_2 = \vec{B} - \vec{A}$

$\vec{D}_1 \cdot \vec{D}_2 = (\vec{B} + \vec{A}) \cdot (\vec{B} - \vec{A})$
 $= \vec{B} \cdot \vec{B} - \vec{A} \cdot \vec{A} = 0$

$\therefore \vec{D}_1 \perp \vec{D}_2$

P.2-4 From $\vec{A} \cdot \vec{B} = \vec{A} \cdot \vec{C}$, we have $\vec{A} \cdot (\vec{B} - \vec{C}) = 0$. (1)

From $\vec{A} \times \vec{B} = \vec{A} \times \vec{C}$, we have $\vec{A} \times (\vec{B} - \vec{C}) = 0$. (2)

(1) implies $\vec{A} \perp (\vec{B} - \vec{C})$ and (2) implies $\vec{A} \parallel (\vec{B} - \vec{C})$. Since \vec{A} is not a null vector, (1) and (2) cannot hold at the same time unless $(\vec{B} - \vec{C})$ is a null vector. Thus, $\vec{B} - \vec{C} = 0$ or $\vec{B} = \vec{C}$.

P.2-5 $\vec{a}_\alpha \cdot \vec{a}_\beta = \cos(\alpha - \beta) = \cos \alpha \cos \beta + \sin \alpha \sin \beta$.

Electromagnetic Field Manual Solution Wave

Kathleen Armour



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Table of Contents Electromagnetic Field Manual Solution Wave

1. Understanding the eBook Electromagnetic Field Manual Solution Wave
 - The Rise of Digital Reading Electromagnetic Field Manual Solution Wave
 - Advantages of eBooks Over Traditional Books
2. Identifying Electromagnetic Field Manual Solution Wave
 - 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 Electromagnetic Field Manual Solution Wave
 - User-Friendly Interface
4. Exploring eBook Recommendations from Electromagnetic Field Manual Solution Wave
 - Personalized Recommendations
 - Electromagnetic Field Manual Solution Wave User Reviews and Ratings
 - Electromagnetic Field Manual Solution Wave and Bestseller Lists
5. Accessing Electromagnetic Field Manual Solution Wave Free and Paid eBooks
 - Electromagnetic Field Manual Solution Wave Public Domain eBooks
 - Electromagnetic Field Manual Solution Wave eBook Subscription Services
 - Electromagnetic Field Manual Solution Wave Budget-Friendly Options
6. Navigating Electromagnetic Field Manual Solution Wave eBook Formats

- ePub, PDF, MOBI, and More
 - Electromagnetic Field Manual Solution Wave Compatibility with Devices
 - Electromagnetic Field Manual Solution Wave Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Electromagnetic Field Manual Solution Wave
 - Highlighting and Note-Taking Electromagnetic Field Manual Solution Wave
 - Interactive Elements Electromagnetic Field Manual Solution Wave
 8. Staying Engaged with Electromagnetic Field Manual Solution Wave
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Electromagnetic Field Manual Solution Wave
 9. Balancing eBooks and Physical Books Electromagnetic Field Manual Solution Wave
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Electromagnetic Field Manual Solution Wave
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Electromagnetic Field Manual Solution Wave
 - Setting Reading Goals Electromagnetic Field Manual Solution Wave
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Electromagnetic Field Manual Solution Wave
 - Fact-Checking eBook Content of Electromagnetic Field Manual Solution Wave
 - 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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