

Chapter 2

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

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

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

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

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

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

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

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

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

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

Vectors representing the three sides of the triangle:

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

(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



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

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

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

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

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

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

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

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Juan A. Martinez-Velasco, 2020-02-10 A hands on introduction to advanced applications of power system transients with practical examples Transient Analysis of Power Systems A Practical Approach offers an authoritative guide to the traditional capabilities and the new software and hardware approaches that can be used to carry out transient studies and make possible new and more complex research The book explores a wide range of topics from an introduction to the subject to a review of the many advanced applications involving the creation of custom made models and tools and the application of multicore environments for advanced studies The authors cover the general aspects of the transient analysis such as modelling guidelines solution techniques and capabilities of a transient tool The book also explores the usual application of a transient tool including over voltages power quality studies and simulation of power electronics devices In addition it contains an introduction to the transient analysis using the ATP All the studies are supported by practical examples and simulation results This important book Summarises modelling guidelines and solution techniques used in transient analysis of power systems Provides a collection of practical examples with a detailed introduction and a discussion of results Includes a collection of case studies that illustrate how a simulation tool can be used for building environments that can be applied to both analysis and design of power systems Offers guidelines for building custom made models and libraries of modules supported by some practical examples Facilitates application of a transients tool to fields hardly covered with other time domain simulation tools Includes a companion website with data input files of examples presented case studies and power point presentations used to support cases studies Written for EMTP users electrical engineers Transient Analysis of Power Systems is a hands on and practical guide to advanced applications of power system transients that includes a range of practical examples

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