

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 $\vec{a}_A \cdot \vec{a}_B = \cos(\alpha - \beta) = \cos \alpha \cos \beta + \sin \alpha \sin \beta$.

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Nonlinear Dynamics and Chaos with Student Solutions Manual Steven H. Strogatz, 2018-09-21 This textbook is aimed at newcomers to nonlinear dynamics and chaos especially students taking a first course in the subject The presentation stresses analytical methods concrete examples and geometric intuition The theory is developed systematically starting with first order differential equations and their bifurcations followed by phase plane analysis limit cycles and their bifurcations and culminating with the Lorenz equations chaos iterated maps period doubling renormalization fractals and strange attractors

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Sivakumaran, James Sloan, 2018-12-13 The United Nations whose specialized agencies were the subject of an Appendix to the 1958 edition of Oppenheim's International Law Peace has expanded beyond all recognition since its founding in 1945 This volume represents a study that is entirely new but prepared in the way that has become so familiar over succeeding editions of Oppenheim An authoritative and comprehensive study of the United Nations legal practice this volume covers the formal structures of the UN as it has expanded over the years and all that this complex organization does All substantive issues are addressed in separate sections including among others the responsibilities of the UN financing immunities human rights preventing armed conflicts and peacekeeping and judicial matters In examining the evolving structures and ever expanding work of the United Nations this volume follows the long held tradition of Oppenheim by presenting facts uncoloured by personal opinion in a succinct text that also offers in the footnotes a wealth of information and ideas to be explored It is book that while making all necessary reference to the Charter the Statute of the International Court of Justice and other legal instruments tells of the realities of the legal issues as they arise in the day to day practice of the United Nations Missions to the UN Ministries of Foreign Affairs practitioners of international law academics and students will all find this book to be vital in their understanding of the workings of the legal practice of the UN Research for this publication was made possible by The Balzan Prize which was awarded to Rosalyn Higgins in 2007 by the International Balzan Foundation

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Autenrieth, 1928 **A Manual of Practical Therapeutics** Edward John Waring, 1871 **Sources of Evil**, 2018-05-29

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