

Chapter 2

P.2-1 (a) $\vec{a}_1 = \frac{\vec{A}}{A} = \frac{\vec{a}_x + \vec{a}_y 2 - \vec{a}_z 3}{\sqrt{1^2 + 2^2 + (-3)^2}} = \frac{1}{\sqrt{14}} (\vec{a}_x + \vec{a}_y 2 - \vec{a}_z 3)$

(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:

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

(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 $\vec{a}_1 \cdot \vec{a}_2 = \cos(\alpha - \beta) = \cos \alpha \cos \beta + \sin \alpha \sin \beta$.

Cheng Field And Wave Electromagnetics Solution Manual

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Cheng Field And Wave Electromagnetics Solution Manual:

Classical Theory Of Electromagnetism: With Companion Solution Manual (Second Edition) Baldassare Di Bartolo, 2004-08-25 New Edition Classical Theory of Electromagnetism 3rd Edition The topics treated in this book are essentially those that a graduate student of physics or electrical engineering should be familiar with in classical electromagnetism Each topic is analyzed in detail and each new concept is explained with examples The text is self contained and oriented toward the student It is concise and yet very detailed in mathematical calculations the equations are explicitly derived which is of great help to students and allows them to concentrate more on the physics concepts rather than spending too much time on mathematical derivations The introduction of the theory of special relativity is always a challenge in teaching electromagnetism and this topic is considered with particular care The value of the book is increased by the inclusion of a large number of exercises **Field and Wave Electromagnetics** Cheng, David K. Cheng Cheng, 1989-01-01

Solutions Manual for Field and Wave Electromagnetics David K. Cheng, 1983 *Electrical Performance of Electronic Packaging*, 2004 **40th AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit July 11-14, 2004, Fort Lauderdale, FL.: no. 3699**, 2004 International Books in Print, 1990 □□□□□□□□, 1989 **Scientific and Technical Books in Print**, 1972 **Dissertation Abstracts International**, 2008 **Subject Guide to Children's Books in Print 1997** Bowker Editorial Staff, R R Bowker Publishing, 1996-09 *Field and Wave Electromagnetics* David K. Cheng, 2014-03-20 Respected for its accuracy its smooth and logical flow of ideas and its clear presentation *Field and Wave Electromagnetics* has become an established textbook in the field of electromagnetics This book builds the electromagnetic model using an axiomatic approach in steps first for static electric fields then for static magnetic fields and finally for time varying fields leading to Maxwell's equations This approach results in an organised and systematic development of the subject matter Applications of derived relations to fundamental phenomena and electromagnetic technologies are explained The full text downloaded to your computer With eBooks you can search for key concepts words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf available as a free download available online and also via the iPad and Android apps Upon purchase you'll gain instant access to this eBook Time limit The eBooks products do not have an expiry date You will continue to access your digital ebook products whilst you have your Bookshelf installed Solution Manual [for] Electromagnetics Samuel Seely, Alexander D. Poularikas, 1979* Solutions Manual, Fundamentals of Engineering Electromagnetics David Keun Cheng, 1993 *Solutions Manual to Accompany Engineering Electromagnetics* William Hart Hayt, 1967 Solutions Manual for Shen and Kong's Applied Electromagnetism Liang Chi Shen, Frank S. C. Huang, 1987 **Electromagnetic Wave Propagation, Radiation, and Scattering** Akira Ishimaru, 2017-08-09 One of the most methodical treatments of electromagnetic wave propagation radiation and scattering including new applications and ideas Presented in two parts this

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