### Chapter 2 Solutions

#### Poststein 2.1

Let  $\mathbf{v} = \mathbf{a} \times \mathbf{b}$ , or in individ notation,

$$w_1 \hat{c}_1 = a_1 \hat{c}_2 \times b_2 \hat{c}_3 = a_{112} a_1 b_2 \hat{c}_3$$

Using indicial notation, show that,

- (a)  $\mathbf{v} \cdot \mathbf{v} = \mathbf{o}^2 \mathbf{b}^2 \sin^2 \theta$ .
- (b)  $a \times b \cdot a = 0$ .
- (c)  $a > b \cdot b = 0$ .

#### Section from

(a) For the given vector, we have

$$\mathbf{v} \cdot \mathbf{v} = e_{11}a_1b_2\hat{\mathbf{e}}_1 \cdot e_{pq_1}a_1b_2\hat{\mathbf{e}}_2 = e_{12}a_2b_2e_{pq_1}a_2b_2\hat{\mathbf{e}}_{pp} = e_{12}a_2b_2e_{qq_2}a_2b_2$$
  
 $= (S_{12}b_{12} - S_{12}b_{12})a_2b_2a_2b_2 = a_{12}b_2b_2 - a_{1}b_1a_2b_2$   
 $= (\mathbf{a} \cdot \mathbf{e})(\mathbf{b} \cdot \mathbf{b}) - (\mathbf{a} \cdot \mathbf{b})(\mathbf{a} \cdot \mathbf{b}) = \mathbf{e}^2\mathbf{b}^2 - (\mathbf{a}\mathbf{b}\cos\theta)^2$   
 $= \mathbf{a}^2\mathbf{b}^2(\mathbf{b} - \cos\theta)^2\theta - \mathbf{a}^2\mathbf{b}^2\sin\theta^2\theta$ 

(b) Again, we find

$$a \times b \cdot a = v \cdot a - (c_{mn}a_1b_2a_3) \cdot a_2a_3 - c_{mn}a_1b_2a_2b_3 - c_{mn}a_1b_2a_3 = 0$$

This is zero by symmetry in i and j. (c) This is

$$a \times b \cdot b = v \cdot b = [r_{ijk}a_ib_k\hat{e}_i] \cdot b_k\hat{e}_k = r_{ijk}a_ib_kb_k\hat{e}_{ik} = r_{ijk}a_ib_kb_k = 0$$

Again, this is zero by symmetry in k and and L

#### Freedolesson 2.2

With respect to the triad of base vectors  $\mathbf{u}_1$ ,  $\mathbf{u}_2$ , and  $\mathbf{u}_3$  (not necessarily unit vectors), the triad  $\mathbf{u}^1, \mathbf{u}^2$ , and  $\mathbf{u}^3$  is said to be a seripencel basis if  $\mathbf{u}_2 \cdot \mathbf{u}^2 = \delta_{11} \cdot \mathbf{l}$ , j=1,2,3). Show that to satisfy those conditions.

$$\mathbf{u}^{1} = \frac{\mathbf{u}_{1} \times \mathbf{u}_{1}}{[\mathbf{u}_{1}, \mathbf{u}_{2}, \mathbf{u}_{3}]}; \quad \mathbf{u}^{2} = \frac{\mathbf{u}_{3} \times \mathbf{u}_{1}}{[\mathbf{u}_{1}, \mathbf{u}_{2}, \mathbf{u}_{3}]}; \quad \mathbf{u}^{3} = \frac{\mathbf{u}_{1} \times \mathbf{u}_{2}}{[\mathbf{u}_{1}, \mathbf{u}_{2}, \mathbf{u}_{3}]}$$

and determine the reciprocal basis for the specific base vectors

$$\begin{array}{rcl} u_1 & = & 2\theta_1 + \theta_2 \ , \\ u_2 & = & 2\theta_2 - \theta_3 \ , \\ u_3 & = & \theta_1 + \theta_2 + \theta_3 \ . \end{array}$$

# **Smartphysics 2 Solution Manual**

David Mills, Charles Adler, Edward Whittaker

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