Chapter 2 Solutions

Problem 2.1

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

$$v_i \hat{e}_i = a_j \hat{e}_j \times b_k \hat{e}_k = \epsilon_{ijk} a_j b_k \hat{e}_i$$

Using indicial notation, show that,

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

Solution

(a) For the given vector, we have

$$\begin{aligned} \mathbf{v} \cdot \mathbf{v} &= \varepsilon_{1|h} \alpha_1 b_h \partial_1 \cdot \varepsilon_{P|q_0} \alpha_q b_h \partial_p = \varepsilon_{1|h} \alpha_1 b_h \varepsilon_{Pq_0} \alpha_q b_h \delta_{1P} = \varepsilon_{1|h} \alpha_1 b_h \varepsilon_{1q_0} \alpha_q b_h \\ &= (\delta_{1q} \delta_{h,n} - \delta_{1h} \delta_{h,q}) \alpha_1 b_h \alpha_q b_h = \alpha_1 \alpha_1 b_h b_h - \alpha_1 b_h \alpha_h b_1 \\ &= (\mathbf{a} \cdot \mathbf{a}) (\mathbf{b} \cdot \mathbf{b}) - (\mathbf{a} \cdot \mathbf{b}) (\mathbf{a} \cdot \mathbf{b}) = \mathbf{a}^2 \mathbf{b}^2 - (\mathbf{a} \mathbf{b} \cos \theta)^2 \\ &= \alpha^2 \mathbf{b}^2 (1 - \cos^2 \theta) = \alpha^2 \mathbf{b}^2 \sin^2 \theta \end{aligned}$$

(b) Again, we find

$$\alpha \times b \cdot \alpha = v \cdot \alpha - (\epsilon_{1jk}\alpha_jb_k\mathcal{C}_1) \cdot \alpha_q\mathcal{C}_q = \epsilon_{1jk}\alpha_jb_k\alpha_q\delta_{1q} = \epsilon_{1jk}\alpha_jb_k\alpha_i = 0$$

This is zero by symmetry in i and j.

(c) This is

$$a \times b \cdot b = v \cdot b = (\epsilon_{13k}a_1b_k\hat{e}_k) \cdot b_\alpha\hat{e}_\alpha = \epsilon_{13k}a_1b_kb_\alpha\delta_{1\alpha} = \epsilon_{13k}a_1b_kb_1 = 0$$

Again, this is zero by symmetry in k and and t.

Problem 2.2

With respect to the triad of base vectors \mathbf{u}_i , \mathbf{u}_3 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 reciprocal basis if $\mathbf{u}_i \cdot \mathbf{u}^j = \delta_{ij}$ (i, j = 1, 2, 3). Show that to satisfy these conditions,

$$\mathbf{u}^1 = \frac{\mathbf{u}_2 \times \mathbf{u}_3}{[\mathbf{u}_1, \mathbf{u}_2, \mathbf{u}_3]}; \quad \mathbf{u}^2 = \frac{\mathbf{u}_3 \times \mathbf{u}_1}{[\mathbf{u}_1, \mathbf{u}_2, \mathbf{u}_3]}; \quad \mathbf{u}^3 = \frac{\mathbf{u}_1 \times \mathbf{u}_2}{[\mathbf{u}_1, \mathbf{u}_2, \mathbf{u}_3]}$$

and determine the reciprocal basis for the specific base vectors

$$\mathbf{u}_1 = 2\hat{e}_1 + \hat{e}_2,$$

 $\mathbf{u}_2 = 2\hat{e}_2 - \hat{e}_3,$
 $\mathbf{u}_3 = \hat{e}_1 + \hat{e}_2 + \hat{e}_3.$

Solution Manual For Continuum Mechanics Plasticity

David W A. Rees

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Mechanics of Solids and Structures David W A. Rees,2000 Solutions Manual to Accompany Essentials of Materials Science Albert G. Guy,1976 Classical And Computational Solid Mechanics (Second Edition)

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