

Answer

$$\begin{aligned}\mathbf{u}^1 &= \frac{1}{5} (3\hat{\mathbf{e}}_1 - \hat{\mathbf{e}}_2 - 2\hat{\mathbf{e}}_3) \\ \mathbf{u}^2 &= \frac{1}{5} (-\hat{\mathbf{e}}_1 + 2\hat{\mathbf{e}}_2 - \hat{\mathbf{e}}_3) \\ \mathbf{u}^3 &= \frac{1}{5} (-\hat{\mathbf{e}}_1 + 2\hat{\mathbf{e}}_2 + 4\hat{\mathbf{e}}_3)\end{aligned}$$

Solution

For the bases, we have

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

since the triple scalar product is insensitive to the order of the operations. Now

$$\mathbf{u}_2 \cdot \mathbf{u}^1 = \mathbf{u}_2 \cdot \frac{\mathbf{u}_2 \times \mathbf{u}_3}{[\mathbf{u}_1, \mathbf{u}_2, \mathbf{u}_3]} = 0$$

since $\mathbf{u}_2 \cdot \mathbf{u}_2 \times \mathbf{u}_3 = 0$ from Pb 2.1. Similarly, $\mathbf{u}_3 \cdot \mathbf{u}^1 = \mathbf{u}_1 \cdot \mathbf{u}^2 = \mathbf{u}_3 \cdot \mathbf{u}^2 = \mathbf{u}_1 \cdot \mathbf{u}^3 = \mathbf{u}_2 \cdot \mathbf{u}^3 = 0$.

For the given vectors, we have

$$[\mathbf{u}_1, \mathbf{u}_2, \mathbf{u}_3] = \begin{vmatrix} 2 & 1 & 0 \\ 0 & 2 & -1 \\ 1 & 1 & 1 \end{vmatrix} = 5$$

and

$$\begin{aligned}\mathbf{u}_2 \times \mathbf{u}_3 &= \begin{vmatrix} \hat{\mathbf{e}}_1 & \hat{\mathbf{e}}_2 & \hat{\mathbf{e}}_3 \\ 0 & 2 & -1 \\ 1 & 1 & 1 \end{vmatrix} = 3\hat{\mathbf{e}}_1 - \hat{\mathbf{e}}_2 - 2\hat{\mathbf{e}}_3; & \mathbf{u}^1 &= \frac{1}{5} (3\hat{\mathbf{e}}_1 - \hat{\mathbf{e}}_2 - 2\hat{\mathbf{e}}_3) \\ \mathbf{u}_3 \times \mathbf{u}_1 &= \begin{vmatrix} \hat{\mathbf{e}}_1 & \hat{\mathbf{e}}_2 & \hat{\mathbf{e}}_3 \\ 1 & 1 & 1 \\ 2 & 1 & 0 \end{vmatrix} = -\hat{\mathbf{e}}_1 + 2\hat{\mathbf{e}}_2 - \hat{\mathbf{e}}_3; & \mathbf{u}^2 &= \frac{1}{5} (-\hat{\mathbf{e}}_1 + 2\hat{\mathbf{e}}_2 - \hat{\mathbf{e}}_3) \\ \mathbf{u}_1 \times \mathbf{u}_2 &= \begin{vmatrix} \hat{\mathbf{e}}_1 & \hat{\mathbf{e}}_2 & \hat{\mathbf{e}}_3 \\ 2 & 1 & 0 \\ 0 & 2 & -1 \end{vmatrix} = -\hat{\mathbf{e}}_1 + 2\hat{\mathbf{e}}_2 + 4\hat{\mathbf{e}}_3; & \mathbf{u}^3 &= \frac{1}{5} (-\hat{\mathbf{e}}_1 + 2\hat{\mathbf{e}}_2 + 4\hat{\mathbf{e}}_3)\end{aligned}$$

Problem 2.3

If the base vectors \mathbf{u}_1 , \mathbf{u}_2 , and \mathbf{u}_3 are eigenvectors of a tensor \mathbf{A} , prove that the reciprocal basis vectors \mathbf{u}^1 , \mathbf{u}^2 , and \mathbf{u}^3 are eigenvectors of the tensor's transpose, \mathbf{A}^T .

Problem 2.4

If the base vectors \mathbf{u}_1 , \mathbf{u}_2 , and \mathbf{u}_3 form an orthonormal triad, prove that $\mathbf{n}_k \mathbf{n}_k = \mathbf{I}$ where \mathbf{I} is the identity matrix.

Problem 2.5

Let the position vector of an arbitrary point $P(x_1x_2x_3)$ be $\mathbf{x} = x_1\hat{\mathbf{e}}_1$, and let $\mathbf{b} = b_1\hat{\mathbf{e}}_1$ be a constant vector. Show that $(\mathbf{x} - \mathbf{b}) \cdot \mathbf{x} = 0$ is the vector equation of a spherical surface having its center at $\mathbf{x} = \frac{1}{2}\mathbf{b}$ with a radius of $\frac{1}{2}b$.

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The Mechanical and Thermodynamical Theory of Plasticity - Solutions Manual Mehrdad Negahban,2009-06-01

Applied Mechanics Reviews ,1981

Technical Abstract Bulletin ,1964

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