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Engineers $B_{kk} = 1/6 A_{kk}$;
 $B_{ij} = 1/3 A_{ij}$ - 1/18
 A_{ij} Solution Taking
the trace of A_{ij} gives
 $A_{ii} = 3B_{kk} + 3B_{ii} = 3B_{kk} + 3B_{ii}$
 $3B_{ii} = 6B_{kk}$ since
 i and k are dummy
indices. This...

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 $u_2 = 1/5 (-e^1 + 2e^2 - e^3)$
 $u_3 = 1/5 (-e^1 + 2e^2 + 4e^3)$
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 $1 u_1 = u_1 u_2 u_3 [u$

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$$\begin{aligned} & \mathbf{u}_1 \cdot (\mathbf{u}_2 \times \mathbf{u}_3) = 1, \quad \mathbf{u}_2 \cdot (\mathbf{u}_3 \times \mathbf{u}_1) = 1, \\ & \mathbf{u}_3 \cdot (\mathbf{u}_1 \times \mathbf{u}_2) = 1, \quad \mathbf{u}_1 \cdot (\mathbf{u}_3 \times \mathbf{u}_2) = 0, \\ & \mathbf{u}_2 \cdot (\mathbf{u}_1 \times \mathbf{u}_3) = 0, \quad \mathbf{u}_3 \cdot (\mathbf{u}_2 \times \mathbf{u}_1) = 0 \end{aligned}$$

since the triple scalar product is insensitive to the order of the operations. Now $\mathbf{u}_2 \cdot (\mathbf{u}_1 \times \mathbf{u}_3) = 0$ since $\mathbf{u}_1 \times \mathbf{u}_3 = \mathbf{u}_2$ from Pb 2.1. Similarly, $\mathbf{u}_3 \cdot (\mathbf{u}_2 \times \mathbf{u}_1) = 0$

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In terms of this basis
an arbitrary vector v
is given in component
form by $v = v_1 e^1 + v_2 e^2 + v_3 e^3 = v = v_1 e^1 + v_2 e^2 + v_3 e^3$
 $\sum_{i=1}^3 v_i e^i$ (2.2)

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Mechanics for
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$\hat{e}_3 = \frac{v_2}{\sqrt{v_1^2 + v_2^2}}$
 $\hat{e}_1 = \frac{v_1}{\sqrt{v_1^2 + v_2^2}}$ (a)
Unit vectors in the
coordinate directions
 x_1 , x_2 and x_3 .

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