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 2 Continuum Mechanics for Engineers Answer u₁ = 5 (3e¹ - e²⁻²e³)
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 u₃ = 1 5 (-e¹⁺²e²⁺⁴e³)
 Solution For the bases, we have u₁u₁ = u₁ u₂ u₃ [u₁;u₂;u₃] = 1; u₂u₂ = u₂ u₃ u₁ [u₁;u₂;u₃] = 1; u₃u₃ = u₃ u₁ u₂ [u₁;u₂;u₃] = 1 since the triple scalar product is insensitive to the order of the operations. Now u₂u₁ = u₂ u₂ u₃ [u₁;u₂;u₃] = 0 since u₂ u₂ u₂ u₃ = 0 from Pb 2.1.

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

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 $u_2 = 15(-e^1 + 2e^2 - e^3)$
 $u_3 = 15(-e^1 + 2e^2 + 4e^3)$ Solution For the bases, we

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In terms of this basis an arbitrary vector v is given in component form by $v = v_1 e^1 + v_2 e^2 + v_3 e^3 = v_i e^i$ $\sum_{i=1}^3 v_i e^i = v$
 (2.2) f8 Continuum Mechanics for Engineers $v_3^2 e^3 + v_2^2 e^2 + v_1^2 e^1$ (a) Unit vectors in the coordinate directions x_1 , x_2 and x_3 .

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