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2 Continuum Mechanics for Engineers Answer $u_1 = 5 (3e^{-1} - e^{-2} - 2e^{-3})$ $u_2 = 1$ $5 (-e^{-1} + 2e^{-2} - e^{-3})$ $u_3 = 1$ $5 (-e^{-1} + 2e^{-2} + 4e^{-3})$ Solution For the bases, we have $u_1 u_1 = u_1 u_2 u_3 [u_1; u_2; u_3] = 1$; $u_2 u_2 = u_2 u_3 u_1 [u_1; u_2; u_3] = 1$; $u_3 u_3 = u_3 u_1 u_2 [u_1; u_2; u_3] = 1$ since the triple scalar product is insensitive to the order of the operations. Now $u_2 u_1 = u_2 u_2 u_3 [u_1; u_2; u_3] = 0$ since $u_2 u_2 u_3 = 0$ from Pb 2.1. Similarly, u

[Chapter 2 Solutions](#)

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In terms of this basis an arbitrary vector v is given in component form by $e_1 + v_2 e_2 + v_3 e_3 = v = v_1 e_3 \times i = 1 \hat{e}_i \cdot v_i e_i$ (2.2) f8 Continuum Mechanics for Engineers $x_3 \times x_3 \hat{e}_3 = v \times x_2 \hat{e}_2 = 0$ $v_1 \hat{e}_1 + v_2 \hat{e}_2 + v_3 \hat{e}_3$ (a) Unit vectors in the coordinate directions x_1 , x_2 and x_3 .