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2 Continuum Mechanics for Engineers Answer $u_1 = 5(3e^{-1} - e^{-2} - 2e^{-3})$ $u_2 = 1.5(-e^{-1} + 2e^{-2} - e^{-3})$ $u_3 = 1.5(-e^{-1} + 2e^{-2} + 4e^{-3})$

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$2 - \mathbf{e}_3 \cdot \mathbf{u}_3 = 1$ $5(-\mathbf{e}_1 + 2\mathbf{e}_2 + 4\mathbf{e}_3)$ Solution For the bases, we have $\mathbf{u}_1 \mathbf{u}_1 = \mathbf{u}_1 \mathbf{u}_2 \mathbf{u}_3 [\mathbf{u}_1; \mathbf{u}_2; \mathbf{u}_3] = 1$; $\mathbf{u}_2 \mathbf{u}_2 = \mathbf{u}_2 \mathbf{u}_3 \mathbf{u}_1 [\mathbf{u}_1; \mathbf{u}_2; \mathbf{u}_3] = 1$; $\mathbf{u}_3 \mathbf{u}_3 = \mathbf{u}_3 \mathbf{u}_1 \mathbf{u}_2 [\mathbf{u}_1; \mathbf{u}_2; \mathbf{u}_3] = 1$ since the triple scalar product is insensitive to the order of the operations. Now $\mathbf{u}_2 \mathbf{u}_1 = \mathbf{u}_2 \mathbf{u}_2 \mathbf{u}_3 [\mathbf{u}_1; \mathbf{u}_2; \mathbf{u}_3] = 0$ since $\mathbf{u}_2 \mathbf{u}_2 \mathbf{u}_3 = 0$ from Pb 2.1. Similarly, $\mathbf{u}_1 \mathbf{u}_2 = \mathbf{u}_1 \mathbf{u}_1 \mathbf{u}_3 = 0$ and $\mathbf{u}_1 \mathbf{u}_3 = \mathbf{u}_1 \mathbf{u}_2 \mathbf{u}_1 = 0$.

Chapter 2 Solutions

MCE 541 Continuum Mechanics for Engineers Syllabus Homeworks Homework-01 HW_01 and HW_01 Solutions Homework-02 HW_02 Homework-03 HW_03 and HW_03_solutions Homework-04 HW_04 and HW_04_solutions

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In terms of this basis an arbitrary vector \mathbf{v} is given in component form by $\mathbf{v} = v_1 \mathbf{e}_1 + v_2 \mathbf{e}_2 + v_3 \mathbf{e}_3$ $\mathbf{v} = v_1 \mathbf{e}_1 + v_2 \mathbf{e}_2 + v_3 \mathbf{e}_3$ (2.2) $\mathbf{v} = v_1 \mathbf{e}_1 + v_2 \mathbf{e}_2 + v_3 \mathbf{e}_3$ (a) Unit vectors in the coordinate directions \mathbf{e}_1 , \mathbf{e}_2 and \mathbf{e}_3 .

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