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2 Continuum Mechanics for Engineers Answer u 1= 5 (3e^ 1- ^e 2-2^e 3) u2 = 1 5 (-^e 1+2^e 2- ^e 3) u3 = 1 5 (-^e 1+2^e 2+4^e 3) Solution For the bases, we have u 1u1= u 1 u 2 u 3 [u 1;u 2;u 3] = 1; u 2u2= u 2 u 3 u 1 [u 1;u 2;u 3] = 1; u 3u3= 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 2u1= u 2 u 2 u 3 [u 1;u 2;u 3] = 0 since u 2 2u 2 u 3= 0from Pb 2.1. Similarly, u

**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 v is given in component form by ^1 + v2 e ^2 + v3 e ^3 = v = v1 e 3 X i=1 ^i . vi e (2.2) f8 Continuum Mechanics for Engineers x3 x3 ^3 e v x2 O ^2 e O v1 ^1 e x1 v2 x2 x1 (a) Unit vectors in the coordinate directions x1 , x2 and x3 .

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