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

## Chapter 2 Solutions

MCE 541 Continuum Mechanics for Engineers Syllabus Homeworks  
Homework-01 HW\_01 and HW\_01 Solutions Homework-02 HW\_02  
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In terms of this basis an arbitrary vector  $v$  is given in component form by  $v = v_1 e_1 + v_2 e_2 + v_3 e_3 = v_i e_i$  (2.2) f8  
Continuum Mechanics for Engineers  $v = v_1 e_1 + v_2 e_2 + v_3 e_3$   
 $v = v_1 e_1 + v_2 e_2 + v_3 e_3$  (a) Unit vectors in the coordinate directions  $e_1$ ,  $e_2$  and  $e_3$ .

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