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A  $kk$   
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 $2u_2 = u_2 u_3 u_1$   $[u_1; u_2; u_3] = 1$ ;  $u_3 u_3 =$   
 $u_3 u_1 u_2$   $[u_1; u_2; u_3] = 1$  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,  $u$

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In terms of this basis an arbitrary vector  $v$  is given in component form by  $v = v_1 e_1 + v_2 e_2 + v_3 e_3 = v = v_i e_i$  (2.2) f8 Continuum Mechanics for Engineers x3 x3 v3 ^3 e v x2 O ^2 e O v1 ^1 e x1 v2 x2 x1 (a) Unit vectors in the coordinate directions  $x_1$ ,  $x_2$  and  $x_3$ .

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