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 $kk$  Solution Taking the trace of A  $ij$  gives A  $ii=ii$  B  $kk+3B$   $ii=3B$   $kk+3B$   $ii=6B$   
 $kk$  since i and k are dummy indices. This...

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$= 1 \ 5 \ (-^e 1+2^e 2- ^e 3) \ u_3 = 1 \ 5 \ (-^e 1+2^e 2+4^e 3)$  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

$$v = v_1 e_1 + v_2 e_2 + v_3 e_3 = \sum_{i=1}^3 v_i e_i \quad (2.2)$$

~~Mechanics for Engineers~~  $x_3$   $x_3$   $v_3$   $e_3$   $v$   $x_2$   $O$   $e_2$   $O$   $v_1$   $e_1$   $x_1$   $v_2$   $x_2$   $x_1$  (a)

Unit vectors in the coordinate directions  $x_1$ ,  $x_2$  and  $x_3$ .

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kk since iand kare dummy indices. This...

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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**

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$$\hat{e}_1 + v_2 \hat{e}_2 + v_3 \hat{e}_3 = \mathbf{v} = v_1 \hat{e}_1 + v_2 \hat{e}_2 + v_3 \hat{e}_3 = \sum_{i=1}^3 v_i \hat{e}_i \quad (2.2)$$

Mechanics for Engineers  $\hat{e}_1, \hat{e}_2, \hat{e}_3$  are the unit vectors in the coordinate directions  $x_1, x_2$  and  $x_3$ . (a)