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Lecture 13 - Stress Tensors  
*Explained Intuitively:*  
*Covariant, Contravariant,*  
*Rank* ~~What's a Tensor?~~ The  
stress tensor Continuum  
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~~Solution~~ Deformation Gradient  
Tensor (**Lesson 1**)

**Index/Tensor Notation -  
Introduction to The  
Kronecker Delta What is  
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*01.01. Introduction ~~What is~~  
~~CONTINUUM MECHANICS? What~~*

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~~does CONTINUUM MECHANICS~~

~~mean? CONTINUUM MECHANICS~~

~~explanation~~ **3D Stress**

**equilibrium equations [FEM],**

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*Introduction to Tensors*

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Engineers  $B_{kk} = 1/6 A_{kk}$ ;  $B_{ij} = 1/3 A_{ij} - 1/18 A_{kk}$   
Solution Taking the trace of  
 $A_{ij}$  gives  $A_{ii} = 1/6 B_{kk} + 3B_{ij}$

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 $\delta_{ii} = 3B_{kk} + 3B_{ii} = 6B_{kk}$  since  
i and k are dummy indices.

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Answer  $u_1 = 5 (3e^{-1} - e^{-2} - 2e^{-3})$   $u_2 = 1.5 (-e^{-1} + 2e^{-2} - e^{-3})$   $u_3 = 1.5 (-e^{-1} + 2e^{-2} + 4e^{-3})$  Solution For the  
bases, we

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**Solution**  
1+2^e 2+4^e 3) Solution For  
the bases, we have  $u_1 u_1 = u_1$   
 $u_2 u_2 = u_2$   $u_3 u_3 = u_3$   
 $[u_1; u_2; u_3] = 1;$   
 $[u_1; u_2; u_3] = 1;$   
 $[u_1; u_2; u_3] = 1;$   
 $[u_1; u_2; u_3] = 1$  since  
the triple scalar product is  
insensitive to the order of

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~~Solution~~ 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

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

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 $\mathbf{v} = v_1 \mathbf{e}_1 + v_2 \mathbf{e}_2 + v_3 \mathbf{e}_3$   
 $\mathbf{v} = v_1 \mathbf{e}_1 + v_2 \mathbf{e}_2 + v_3 \mathbf{e}_3$

(a) Unit vectors in the  
coordinate directions  $\mathbf{e}_1, \mathbf{e}_2, \mathbf{e}_3$

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Solution x2 and x3 .

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