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L14 Variational
formulation for
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~~Linear Elasticity~~

~~Theory 10.05.~~

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mechanics: Books,
and the road ahead

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MechanicsL08

Anisotropic VTI 1D

MEM, Solution to

general continuum

mechanics problem,

FEM solution IC242 -

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Mechanics - Lecture

13 - Stress Tensors

Explained Intuitively:

Covariant,

Contravariant, Rank

~~What's a Tensor? The~~

stress tensor

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Lecture 2 -

Deformation Gradient

Tensor (Lesson 1)

Index/Tensor

Notation -

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Kronecker Delta What
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LYNC 01.01.

Introduction ~~What is~~

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~~MECHANICS? What~~

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~~MECHANICS mean?~~

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~~explanation 3D Stress~~

~~equilibrium equations~~

~~[FEM], finite element~~

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analysis Introduction For
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Lecture 2 - Indicial or
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Engineers $B_{kk} = 1/6 A_{kk}$;
 $B_{ij} = 1/3 A_{ij} - 1/18 A_{kk} \delta_{ij}$
Solution Taking the trace of A_{ij} gives
 $A_{ii} = 3B_{kk} + 3B_{ii} = 3B_{kk} + 3B_{ii}$
 $3B_{kk} + 3B_{ii} = 6B_{kk}$ since i and k are dummy indices. This...

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mechanics is the
fundamental basis
upon which several
graduate courses in
engineering science
such as elasticity,
plasticity,

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viscoelasticity, and
fluid mechanics are
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Engineers. Theory For
and ... 2 Continuum
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Engineers Answer u

$$u_1 = 5 (3e^{-1} - e^{-2} - 2e^{-3})$$

$$u_2 = 15 (-e^{-1} + 2e^{-2} - e^{-3})$$

$$u_3 = 15 (-e^{-1} + 2e^{-2} + 4e^{-3})$$

Solution For the

bases, we

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Engineers Answer u

$$u_1 = 5(3e^{-1} - e^{-2} - 2e^{-3})$$

$$u_2 = 1 - 5(e^{-1} + 2e^{-2} - e^{-3})$$

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

Solution For the

bases, we have u

$$u_1 = u_1 \quad u_2 = u_3 \quad [u_1; u_2; u_3] = 1; u_2$$

$$u_2 = u_2 \quad u_3 = u_1 \quad [u_1; u_2; u_3] = 1; u_3$$

$$u_3 = u_3 \quad u_1 = u_3 \quad [u_1; u_2; u_3] = 1; u_3$$

$$u_3 = u_3 \quad u_1 = u_3$$

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$u_2 [u_1; u_2; u_3] = 1$
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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MCE 541 Continuum
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Homeworks For

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01 and HW_01

Solutions

Homework-02

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Homework-03

HW_03 and

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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)

Continuum

Mechanics for

Engineers $x_3 x_3 v_3$

$e^3 e^2 e^1$

$e^1 e^2 e^3$ (a)

Unit vectors in the

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Coordinate directions
 x_1 , x_2 and x_3 .

Solution

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