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Tensors Explained

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*Intuitively: Covariant,
Contravariant, Rank*

~~What's a Tensor?~~ The
stress tensor Continuum

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Gradient Tensor

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Index/Tensor Notation

- Introduction to The

Kronecker Delta What

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~~does CONTINUUM~~

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~~explanation 3D Stress~~

~~equilibrium equations~~

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~~*Tensors Continuum*~~

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(Index) notation *FLUID*

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6 Continuum Mechanics
for Engineers B $k_k = 1 \ 6$

A k_k ; B $i_j = 1 \ 3$ A $i_j - 1 \ 18$

$i_j A_{kk}$ Solution Taking
the trace of A i_j gives A

$i_i = i_i B_{kk} + 3B_{ii} = 3B_{kk} + 3B_{ii}$

$k_k + 3B_{ii} = 6B_{kk}$ since

i and k are dummy

indices. This...

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mechanics is the
fundamental basis upon
which several graduate
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mechanics are founded.

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

$$= 1.5 (-e^{1+2e^2-3})$$

$$u_3 = 1.5 (-e^{1+2e^2+4e^3})$$

Solution For

the bases, we

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2 Continuum Mechanics
for Engineers Answer u

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

$$u_2 = 1.5 (-e^{1+2e^2-3})$$

$$u_3 = 1.5 (-e^{1+2e^2+4e^3})$$

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$1+2^2+4^2$) For

Solution For the bases,
we have $u_1 u_1 = u_1 u_2$
 $u_3 [u_1; u_2; u_3] = 1; u_2$

$2u_2 = u_2 u_3 u_1 [u_1; u_2; u_3] = 1; u_3 u_3 = u_3 u_1 u_2 [u_1; u_2; u_3] = 1$

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,

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In terms of this basis an arbitrary vector v is given in component

$$\text{form by } v = v_1 e^1 + v_2 e^2 + v_3 e^3 = v = v_i e^i \quad (2.2)$$

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$$v = v_1 e^1 + v_2 e^2 + v_3 e^3 \quad (a)$$

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

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