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Deformation Gradient and Displacement

Gradient What's a Tensor? Tensors

Explained Intuitively: Covariant,

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Covered In One Semester Of Graduate

Classical Mechanics The stress tensor

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– Deformation Gradient Tensor:

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| SKILL-LYNC Nonlinear Continuum
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introduction and overview Continuum
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Gonzalez, Oscar and Stuart, Andrew M.
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CaltechAUTHORS

Throughout the years, the faculty in Berkeley before my time may have molded its own continuum mechanics curriculum --- the so-called "west coast system". We start tensor algebra and analysis first. For the first course, we mainly teach Cartesian tensor in Euclidean space, but we do

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introduce concepts such as "push forward", "pull-back".

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Tensor Algebra 5 where A is the change of
basis tensor from $\{e_i\}$ to $\{e_i\}$. Since $e_3 =$
 $a / |a|$ and $a = e_1 + e_2 + e_3$ we find that
the representation of e_3 in the frame $\{e_i\}$

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is $[e_3] = (1 \quad 3, 1 \quad 3, 1 \quad 3)^T$. Because there are no other restrictions, we can choose e_2 and e_1 in any manner consistent with $\{e_i\}$ being a (right-handed) frame. For example, we can choose

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unit gives an introduction to the theory of continuum mechanics from a mathematical viewpoint. In continuum mechanics, matter is represented by average quantities defined in a continuous region of space, rather than as discrete particles. The field is enormous and encompasses the study of fluids, solids,

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powders, plasmas and almost everything in between.

MATH 45061: Continuum Mechanics

This website presents the principles of finite deformation continuum mechanics with many example applications to metals and incompressible viscoelastic materials

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(rubber). It can serve as lecture notes for a graduate level course in continuum mechanics for engineers interested in the subject.

Continuum Mechanics

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Presenting a concise account of various

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1987 (Volumes I and IV) and 1988
(Volumes II) and they have been
corrected, ... P. Chadwick, Continuum
Mechanics: Concise Theory and
Problems, Dover, 1999. J.L. Ericksen,

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Introduction to the Thermodynamics of Solids, Chapman and Hall, 1991.

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displacement equations) (2) Kinetics
(balance of linear and angular momentum)
(3) Thermodynamics (first and second laws
of. thermodynamics) (4) Constitutive
equations (stress--strain relations) ABOUT
THIS COURSE (continued)

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Mechanics

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