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Gonzalez, Oscar and Stuart, Andrew M. (2008) A First Course in Continuum Mechanics. Cambridge Texts in Applied Mathematics. Vol.42. Cambridge University Press , Cambridge, UK. ISBN 9780521714242.

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A First Course in Continuum Mechanics - 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 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 $\{e_i\}$ is $[e_3] = (1/3, 1/3, 1/3)^T$. 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

A First Course in Continuum Mechanics

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

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Continuum Mechanics

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First drafts of these notes were produced in 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, Introduction to the Thermodynamics of Solids, Chapman and Hall, 1991.

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