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Introduction to continuum mechanics. W Michael Lai, Erhard Krempf, David Rubin. New material has been added to this third edition text for a beginning course in continuum mechanics. Additions include anisotropic elastic solids, finite deformation theory, some solutions of classical elasticity problems, objective tensors and objective time derivatives of tensors, constitutive equations for viscoelastic fluids, and equations in cylindrical and spherical coordinates.

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Show less. Continuum mechanics studies the response of materials to different loading conditions. The concept of tensors is introduced through the idea of linear transformation in a self-contained chapter, and the interrelation of direct notation, indicial notation and matrix operations is clearly presented. A wide range of idealized materials are considered through simple static and dynamic problems, and the book contains an abundance of illustrative examples and problems, many with solutions.

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The continuum theory regards matter as indefinitely divisible. Thus, within this theory, one accepts the idea of an infinitesimal volume of materials, referred to as a particle in the continuum, and in every neighborhood of a particle there are always neighboring particles.

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the  $\sigma_{ij}$  is a second order tensor.  $\sigma_{ij} = \sigma_{ji}$  (symmetry of stress tensor)  $\sigma_{ij} = \sigma_{ji}$   $\sigma_{ij} = \sigma_{ji}$  ...

CHAPTER 2, PART A

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