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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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CHAPTER 2, PART A

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Continuum mechanics is a theory of the kinematics and dynamics of material bodies in the limit in which matter can be assumed to be infinitely subdividable. Scientists have long struggled with the question as to whether matter consisted ultimately of an aggregate of indivisible "atoms", or whether any small parcel of

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continuum mechanics, the second law of thermodynamics, the principles of material frame-indifference and material symmetry. In addition, they involve linearizations of various types. In this text, an effort is made to explain carefully how the governing principles, linearizations and other approximations combine to yield classical continuum models. A fundamental understanding

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