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momentum for a continuum requires that  
the Cauchy stress satisfy. ... This shows  
that nominal stress and deformation

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gradient are work conjugate, as are  
material stress and Lagrange strain.

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## Continuum Mechanics - Conservation Laws

A continuity equation is useful when a  
flux can be defined. To define flux, first

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there must be a quantity  $q$  which can flow or move, such as mass, energy, electric charge, momentum, number of molecules, etc. Let  $\rho$  be the volume density of this quantity, that is, the amount of  $q$  per unit volume.. The way that this quantity  $q$  is flowing is described by its flux.

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Continuity equation - Wikipedia

Figure 4: Breaking Stress. E. Plastic Deformation. Beyond the elastic limit, materials do not obey Hooke's law. Any deformation beyond that point will be permanent. This deformation beyond the elastic limit is known as plastic



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deformation. Proportionality limit (P) and Elastic limit (E) is illustrated in the below stress vs. strain graph.

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Stress & Strain | A Level Physics Revision  
Notes

Unlike deformation measures; kinetics;

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and conservation laws, a constitutive law cannot be calculated or predicted from first principles, except for a few very special cases such as small deformations of crystalline materials, where elastic properties can be estimated using ab-initio techniques that approximate quantum mechanical level atomic scale interactions

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Continuum Mechanics: Constitutive Laws  
Significant stress may exist even when deformation is negligible or non-existent (a common assumption when modeling the flow of water). Stress may exist in the

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absence of external forces; such built-in stress is important, for example, in prestressed concrete and tempered glass. Stress may also be imposed on a material without the application of net forces, for example by changes in temperature ...

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Stress (mechanics) - Wikipedia

Conservation laws must be fulfilled for mass, momentum, angular momentum, etc. during a deformation. These laws are described first in detail. Then, the Cauchy stress tensor is defined and further, based on it, various stress tensors are derived

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Conservation Laws from the Cauchy stress tensor. Introducing the stress tensor, the equilibrium equations of force and moment are formulated from the conservation laws.

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1 Deformation, Stress, and Conservation Laws (pp. 1-31) In this chapter, we will develop a mathematical description of deformation. Our focus is on relating deformation to quantities that can be measured in the field, such as the change in distance between two points, the change in orientation of a line, or the change in

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Conservation laws of mass, momentum,  
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described first in detail. Then, the Cauchy stress tensor is defined and further, based on it, various stress tensors are derived from the Cauchy stress tensor. Introducing the stress tensor, the equilibrium equations of force and moment are formulated from the conservation laws.

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The conservation and balance laws constituting the mathematical models are derived for finite deformation and finite strain using second Piola-Kirchhoff stress tensor and Green's strain tensor. The

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constitutive theories for thermoelastic solids express the second Piola-Kirchhoff stress tensor as a linear function of the Green's strain tensor.

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