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~~NONLINEAR CONTINUUM MECHANICS FOR FINITE ELEMENT ANALYSIS~~

In the continuum mechanics of solids, the second law of thermodynamics is satisfied if the Clausius – Duhem form of the entropy inequality is satisfied. The balance laws express the idea that the rate of change of a quantity (mass, momentum, energy) in a volume must arise from three causes:

~~Continuum mechanics—Wikipedia~~

finite nonlinear solid mechanics a continuum approach for engineering science nonlinear solid mechanics deals with nonlinear constitutive equations for physical objects such as rubber metal ceramics wood living tissues etc the continuum approach allows the explanation of physical

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