

VISCOPLASTICITY%0A

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[Viscoplasticity - Wikipedia](#)

Viscoplasticity is a theory in continuum mechanics that describes the rate-dependent inelastic behavior of solids. Rate-dependence in this context means that the deformation of the material depends on the rate at which loads are applied. The inelastic behavior that is the subject of viscoplasticity is plastic deformation which means that the

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In engineering applications where materials are expected to yield and accumulate plastic deformation, it is typically assumed that the rate of loading does not have an appreciable effect on the material behavior of the structure, i.e.

[3.5. Rate-Dependent Plasticity \(Viscoplasticity\)](#)

In both cases, σ is the effective stress, $\dot{\epsilon}$ is the equivalent plastic strain rate, h is the strain rate hardening parameter, η is the material viscosity parameter, and σ_0 is the static yield stress of material. σ_0 is a function of some hardening parameter and can be defined via isotropic plasticity (for example, TB,BISO).

[Viscoplasticity - an overview | ScienceDirect Topics](#)

The plasticity/ viscoplasticity rules include an elasticity domain Γ_0 (which in viscoplasticity can be reduced to a point). We assume Hill's criterion, defined by the fourth-rank tensor H , characteristic of the damaged material and its symmetries:

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I am trying to solve simple shear problem using a large deformation FE code based on the framework developed by Fleck and Hutchinson for gradient plasticity/viscoplasticity problem (see the attached paper).

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Viscoplasticity is a theory in continuum mechanics that describes the rate-dependent inelastic behavior of solids. Rate-dependence in this context means that the deformation [disambiguation needed] of the material depends on the rate at which loads are applied. [1]

[A review of some plasticity and viscoplasticity ...](#)

In viscoplasticity, we assume a collection of potentials s_i, s_j

$\dot{\epsilon}_p = \dot{\epsilon}_p(S, \sigma)$, dependent on and hardening variables A, J through a yield function $f(S, \sigma, A, J)$. The plastic strain rate is a summation of the associated mechanisms:

What is the primary difference between viscoplastic and ...

From a rheological perspective, the primary difference between a viscoplastic and viscoelastic material is the presence of a yield stress. A viscoplastic material has a yield stress under which it