VUHARD

User subroutine VUHARD:

- is called at all material points of elements for which the material definition includes user-defined isotropic hardening or cyclic hardening for metal plasticity;
- can be used to define a material's isotropic yield behavior;
- can be used to define the size of the yield surface in a combined hardening model;
- can include material behavior dependent on field variables or state variables; and
- requires that the derivatives of the yield stress (or yield surface size in combined hardening models) be defined with respect to the appropriate independent variables, such as strain, strain rate, and temperature.

This page discusses:

See Also

In Other Guides

Classical Metal Plasticity

Models for Metals Subjected to Cyclic Loading

*CYCLIC HARDENING

*PLASTIC

Deformation of a sandwich plate under CONWEP blast loading

VUHARD

Products: Abaqus/Explicit

User Subroutine Interface

```
      subroutine vuhard(
C Read only -
     *     nblock,
     *     jElem, kIntPt, kLayer, kSecPt,
     *     lAnneal, stepTime, totalTime, dt, cmname,
```