



VUMATHT



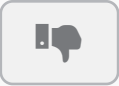
Warning: The use of this user subroutine generally requires considerable expertise. You are cautioned that the implementation of any realistic constitutive model requires extensive development and testing. Initial testing on a single-element model with prescribed traction loading is strongly recommended.

User subroutine [VUMATHT](#):

- can be used to define the thermal constitutive behavior of a material as well as internal heat generation during heat transfer processes;
- will be called for blocks of material calculation points for which the thermal material behavior is defined in a user subroutine;
- can use and update solution-dependent state variables;
- can use any field variables that are passed in;
- can be used with thermally coupled continuum elements and Eulerian elements; and
- is described further in [User-Defined Thermal Material Behavior](#).

This page discusses:

- [User Subroutine Interface](#)
- [Variables to Be Defined](#)
- [Variables That Can Be Updated](#)
- [Variables Passed in for Information](#)
- [Example: Using More than One User-Defined Material Model](#)
- [Example: A Simple Thermal Material](#)



Is this page useful?

See Also

In Other Guides

[User-Defined Thermal Material Behavior](#)

[*USER MATERIAL](#)

[Freezing of a square solid: the two-dimensional Stefan problem](#)

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