



UGENS



User subroutine [UGENS](#):

- is used to define the (nonlinear) mechanical behavior of a shell section directly in terms of generalized section quantities;
- requires you to define the section behavior of the shell directly in terms of membrane strains and curvature changes;
- is called at all integration points in all shell elements with a general, arbitrary, elastic shell section and a user-subroutine-defined shell section stiffness; and
- can be used with all static or dynamic procedures other than the quasi-static procedure, since that procedure uses automatic time stepping based on the techniques used by Abaqus/Standard to integrate standard creep laws.

This page discusses:

- [Storage of Membrane and Bending Components](#)
- [Increments for Which Only the Section Stiffness Can Be Defined](#)
- [Stability](#)
- [Convergence Rate](#)
- [Use with Shells That Have Transverse Shear and/or Hourglass Stiffness](#)
- [Use with Continuum Shell Elements](#)
- [User Subroutine Interface](#)
- [Variables to Be Defined](#)
- [Variables That Can Be Updated](#)
- [Variables Passed in for Information](#)



Is this page useful?

See Also

In Other Guides

[Using a General Shell Section to Define the Section Behavior](#)

[*SHELL GENERAL SECTION](#)