



UEL



Warning: This feature is intended for advanced users only. Its use in all but the simplest test examples will require considerable coding by the user/developer. [User-Defined Elements](#) should be read before proceeding.

User subroutine [UEL](#):

- will be called for each element that is of a general user-defined element type (that is, not defined by a linear stiffness, damping, or mass matrix read either directly or from results file data) each time element calculations are required; and
- (or subroutines called by user subroutine [UEL](#)) must perform, depending on the analysis type, all or most of the calculations for the element, appropriate to the current activity in the analysis.

This page discusses:

- [Wave Kinematic Data](#)
- [User Subroutine Interface](#)
- [Variables to Be Defined](#)
- [Variables That Can Be Updated](#)
- [Variables Passed in for Information](#)
- [UEL Conventions](#)
- [Usage with General Nonlinear Procedures](#)
- [Usage with Linear Perturbation Procedures](#)
- [Nondiagonal Damping in Linear Perturbation Procedures](#)
- [Example: Structural and Heat Transfer User Element](#)

 **Is this page useful?**

See Also

In Other Guides

- [User-Defined Elements](#)
- [*UEL PROPERTY](#)
- [*USER ELEMENT](#)