LS-DYNA IMPLICIT

This course will allow LS-DYNA users to get started with the IMPLICIT solver with minimal effort. The most important elements to start using LS-DYNA Implicit successfully will be presented in the 16 hours. There is a workshop with this course.

- 1. Implicit versus Explicit

- 2. Equilibrium, Nonlinearity, and Linearization

- 3. Activating the Implicit Solver

- 4. Material Models and Element Types

- 5. Contact for Implicit

- 6. Eigenvalue Analysis

- 7. Dynamic Analysis using Modal Results

- 8. Springback

- 9. Additional Implicit Features

    - Explicit-Implicit Switch

    - Buckling Analysis

    - Control Implicit Termination

    - Inertia Relief

    - Consistent Mass

    - Condensation

- 10. Implicit in MPP

- 11. Linear Equation Solver

- 12. Practical Guidelines

- 13. Trouble Shooting and Ways to Battle Divergence

- 14. Summary