NAS400 - Implicit Nonlinear Analysis using MSC Nastran and Patran

Objectives

NAS400 covers various aspects of implicit nonlinear analysis using MSC Nastran and Patran. This includes large deformation, advanced nonlinear material, contact, analysis chaining, heat transfer, and nonlinear transient dynamics.

Content

- Overview of MSC Nastran
- Overview of Implicit Analysis with SOL 400
- Sources of Nonlinearity
- Concepts in Nonlinear Analysis
- Chaining of Different Analysis Types
- Boundary Condition Changes
- Advanced Nonlinear Material Models in MSC Nastran
- Large Strain Elastic-Plastic
- Nonlinear Elastic
- Hyperelastic
- Composite
- Shape Memory Alloy
- Advanced Nonlinear Elements in MSC Nastran
- Contact Bodies and Contact Body Interactions
- Heat Transfer
- Nonlinear Structural Dynamics

Prerequisites

Basic knowledge in Nastran (NAS101, NAS120 and NAS103) is required.

Dates

Duration 3 Days