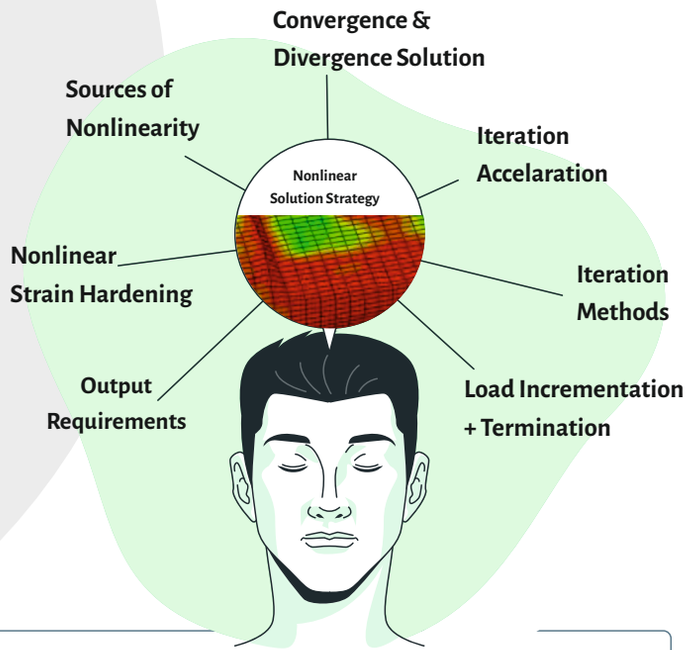
virtual engineering

Course on

Nonlinear FEM Analysis

Theory and Simulation

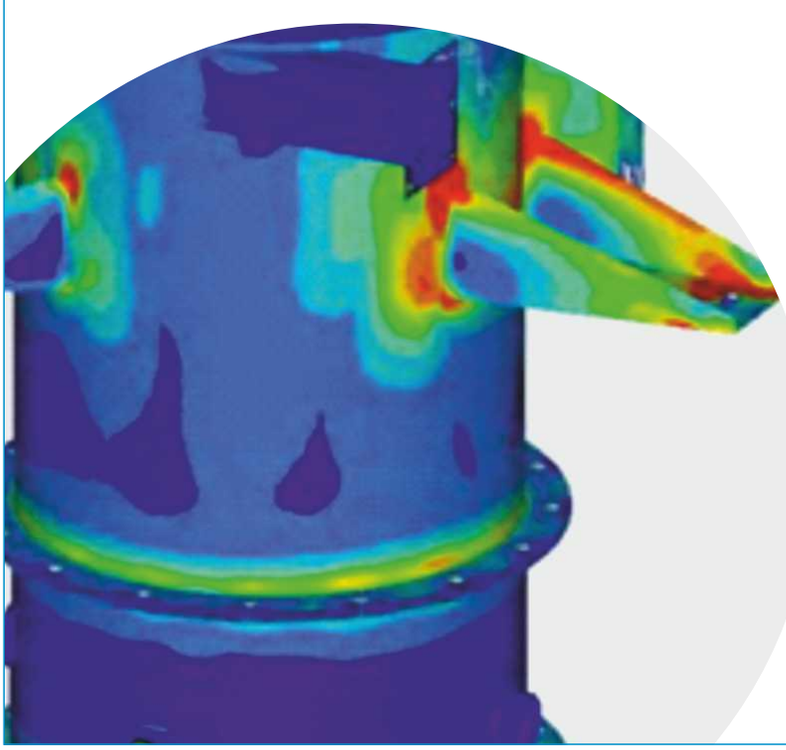


Course Delivery : Online & Offline Mode

Course In-charge : Dr. T Jagadish

About the course

This course Nonlinear FEM aims to cover basic to advanced knowledge of nonlinear sources, fundamental theory, solution procedure, iterative methods, solution convergence, divergence, strain-hardnening..etc. Nonlinear FEM is an key analysis, which ensures the real-world problems in virtual platform. The course is composed of both theory and practical's using commercial software in solving problems.



Course Syllabus

Brief review of FEM Analysis and its procedures
Fundamentals of Non-linearity
Sources of Non-linearity
  – Geometric Non-linearity
  – Material Non-linearity
  – Boundary Condition Non-linearity
Nonlinear solution procedures
Nonlinear Iteration Methods
Convergence and Divergence Solutions
Nonlinear Strain Hardening
Nonlinear problems associated
  - with contact mechanics
  - with static and dynamics
  - with thermal problems
  - with metal forming

Detailed Syllabus

https://virtual-engineering.com/courses/course-on-nonlinear-fem-analysis/

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