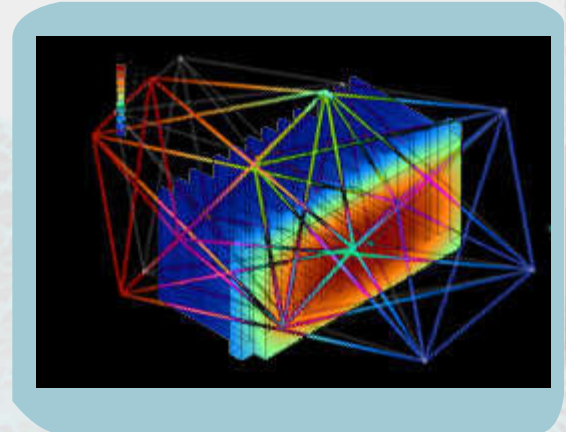


AutoFEA

What's JL Analyzer?

State-of-the-art Analysis Software

AutoFEA JL Analyzer contains a comprehensive range of unrivalled engineering analysis facilities to cater for all types of engineering design. From simple 2D linear analysis of beams and plates through to advanced 3D nonlinear shell and solid modeling. AutoFEA JL Analyzer will help shorten your design and checking times giving reliable results every time. A policy of continuous development ensures that AutoFEA JL Analyzer stays at the leading edge of technology, so you will always be using state-of-art software to produce cost-effective designs.



Why JL Analyzer?

The intuitive JL Analyzer's pre and post processor gives easy access to the full range of powerful modelling and results processing facilities which allow extensive contouring, graphing and plotting for rapid interpretation of results. All models are created with built-in associativity allowing rapid design changes to be made so you will get better results in less time. Together with On-Line help and custom language system, it makes JL Analyzer stand out as one of the quickest and easiest to

What Does JL Analyzer Include?

The All-In-One Engineering Solution

AutoFEA JL Analyzer comfortably meets your everyday analysis needs. Unrivalled state-of-the-art element libraries and material models allow all types of engineering problem to be solved. Isotropic, orthotropic and composite models are available for the following analyses:

Linear Static Analysis - Superior element technology and robust numerical method are the foundation of JL Analyzer for stress and strain calculation.

Buckling Analysis - Solving for critical load and its associated mode shape calculation

Frequency Analysis - Evaluating natural Frequencies and the corresponding mode shapes of a system

Dynamic Analysis - Determining forced response, vibration, and transient dynamics problems can be solved quicker with JL Analyzer

Thermal Analysis - JL Analyzer has a powerful set of thermal elements and extensive facilities for both simple

and advanced steady state and transient thermal analyses. Problems involving heat transfer due to conduction, convection and radiation can all be solved. If material properties are significantly affected by temperature distribution, then a temperature dependent material nonlinear analysis can be performed.

Nonlinear Static Analysis - JL Analyzer is also rightly regarded as the leader in nonlinear analysis with superior problem solving capabilities. Powerful facilities for geometric and material nonlinearity are available for problems involving large deformations and plasticity. Fully automatic load incrementation and restart features are all designed to enable newcomers to nonlinear analysis to quickly become proficient in solving a wide variety of nonlinear problems. Results processing facilities provide automatic load / displacement graphs and viewing of yielded material